Description of affy

Laurent Gautier, Rafael Irizarry, Leslie Cope, and Ben Bolstad

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Contents

1 Introduction

The *affy* package is part of the Bioconductor[1] project. It is meant to be an extensible, interactive environment for data analysis and exploration of Affymetrix oligonucleotide array probe level data.

The software utilities provided with the Affymetrix software suite summarizes the probe set intensities to form one *expression measure* for each gene. The expression measure is the data available for analysis. However, as pointed out by Li and Wong (2001), much can be learned from studying the individual probe intensities, or as we call them, the *probe level data*. This is why we developed this package. The package includes plotting functions for the probe level data useful for quality control, RNA degradation assessments, different probe level normalization and background correction procedures, and flexible functions that permit the user to convert probe level data to expression measures. The package includes utilities for computing expression measures similar to MAS 4.0's AvDiff (Affymetrix, 1999), MAS 5.0's signal (Affymetrix, 2001), DChip's MBEI (Li and Wong, 2001), and RMA (Irizarry et al., 2003b).

We assume that the reader is already familiar with oligonucleotide arrays and with the design of the Affymetrix GeneChip arrays. If you are not, we recommend the Appendix of the Affymetrix MAS manual Affymetrix (1999, 2001).

The following terms are used throughout this document:

probe oligonucleotides of 25 base pair length used to probe RNA targets.

perfect match probes intended to match perfectly the target sequence.

PM intensity value read from the perfect matches.

mismatch the probes having one base mismatch with the target sequence intended to account for non-specific binding.

MM intensity value read from the mis-matches.

probe pair a unit composed of a perfect match and its mismatch.

[1] `http://www.bioconductor.org/`

affyID an identification for a probe set (which can be a gene or a fraction of a gene) represented on the array.

probe pair set PMs and MMs related to a common *affyID*.

CEL **files** contain measured intensities and locations for an array that has been hybridized.

CDF **file** contain the information relating probe pair sets to locations on the array.

Section 2 describes the main differences between version 1.5 and this version (1.6). Section 3 describes a quick way of getting started and getting expression measures. Section 4 describes some quality control tools. Section 5 describes normalization routines. Section 6 describes the different classes in the package. 7 describes our strategy to map probe locations to probe set membership. Section 8 describes how to change the package's default options. Section **??** describes earlier changes.

Note: If you use this package please cite Gautier et al. (2003) and/or Irizarry et al. (2003a).

2 Changes for affy in BioC 1.8 release

There were relatively few changes.

- MAplot now accepts the argument `plot.method` which can be used to call smoothScatter.
- `normalize.quantiles.robust` has had minor changes.
- `ReadAffy` can optionally return the SD values stored in the cel file.
- The C parsing code has been moved to the *affyio* package, which is now a dependency of the affy package. This change should be transparent to users as *affyio* will be automatically loaded when affy is loaded.
- Added a cdfname argument to `justRMA` and `ReadAffy` to allow for the use of alternative cdf packages.

3 Getting Started: From probe level data to expression values

The first thing you need to do is **load the package**.

```
R> library(affy) ##load the affy package
```

This release of the *affy* package will automatically download the appropriate cdf environment when you require it. However, if you wish you may download and install the cdf environment you need from `http://www.bioconductor.org/data/metaData.html` manually. If there is no cdf environment currently built for your particular chip and you have access to the CDF file then you may use the *makecdfenv* package to create one yourself. To make the cdf packaes, Microsoft Windows users will need to use the tools described here: `http://www.stats.ox.ac.uk/pub/R/rw-FAQ.html`.

3.1 Quick start

If all you want is to go from probe level data (*Cel* files) to expression measures here are some quick ways.

If you want is RMA, the quickest way of reading in data and getting expression measures is the following:

1. Create a directory, move all the relevant *CEL* files to that directory
2. If using linux/unix, start R in that directory.
3. If using the Rgui for Microsoft Windows make sure your working directory contains the *Cel* files (use "File -> Change Dir" menu item).
4. Load the library.

   ```
   R> library(affy) ##load the affy package
   ```

5. Read in the data and create an expression, using RMA for example.

   ```
   R> Data <-  ReadAffy() ##read data in working directory
   R> eset <- rma(Data)
   ```

Depending on the size of your dataset and on the memory available to your system, you might experience errors like 'Cannot allocate vector ...'. An obvious option is to increase the memory available to your R process (by adding memory and/or closing external applications[2]. An another option is to use the function `justRMA`.

```
R> eset <- justRMA()
```

This reads the data and performs the 'RMA' way to preprocess them at the *C* level. One does not need to call `ReadAffy`, probe level data is never stored in an AffyBatch. `rma` continues to be the recommended function for computing RMA.

The `rma` function was written in C for speed and efficiency. It uses the expression measure described in Irizarry et al. (2003b).

[2]UNIX-like systems users might also want to check *ulimit* and/or compile **R** and the package for 64 bits when possible.

For other popular methods use `expresso` instead of `rma` (see Section 3.3.1). For example for our version of MAS 5.0 signal uses expresso (see code). To get mas 5.0 you can use

```
R> eset <- mas5(Data)
```

which will also normalize the expression values. The normalization can be turned off through the `normalize` argument.

In all the above examples, the variable `eset` is an object of class `exprSet` described in the Biobase vignette. Many of the packages in Bioconductor work on objects of this class. See the *genefilter* and *geneplotter* packages for some examples.

If you want to use some other analysis package you can write out the expression values to file using the following command:

```
R> write.exprs(eset, file="mydata.txt")
```

or if on Microsfot Windows and interested in reading your data into excel

```
R> exprs2excel(eset, file="mydata.csv")
```

3.2 Reading CEL file information

The function `ReadAffy` is quite flexible. It lets you specify the filenames, phenotype, and MIAME information. You can enter them by reading files (see the help file) or widgets (you need to have the tkWidgets package installed and working)

```
R> Data <-  ReadAffy(widget=TRUE) ##read data in working directory
```

This function call will pop-up a file browser widget, see Figure 1, that provides an easy way of choosing cel files.

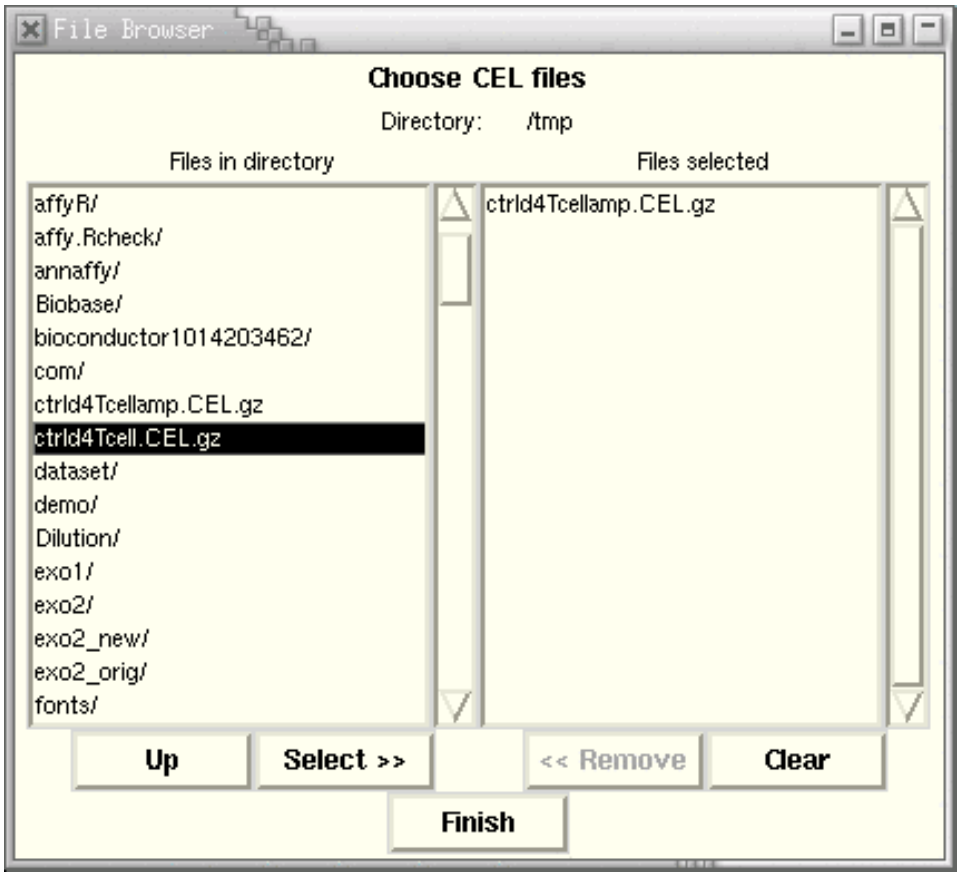

Figure 1: Graphical display for selecting *CEL* files. This widget is part of the *tkWidgets* package. (function written by Jianhua (John) Zhang).

Next, a widget (not shown) permits the user to enter the `phenoData`. Finally the a widget is presented for the user to enter MIAME information.

Notice that it is not necessary to use widgets to enter this information. Please read the help file for more information on how to read it from flat files or to enter it programmatically.

The function `ReadAffy` is a wrapper for the functions `read.affybatch`, `tkSampleNames`, `read.phenoData`, and `read.MIAME`. The function `read.affybatch` has some nice feature that make it quite flexible. For example, the `compression` argument permit the user to read compressed *CEL* files. The argument *compress* set to *TRUE* will inform the readers that your files are compressed and let you read them while they remain compressed. The compression formats *zip* and *gzip* are known to be recognized.

A comprehensive description of all these options is found in the help file:

```
R> ?read.affybatch
R> ?read.phenoData
R> ?read.MIAME
```

3.3 Expression measures

The most common operation is certainly to convert probe level data to expression values. Typically this is achieved through the following sequence:

1. reading in probe level data.
2. background correction.
3. normalization.
4. probe specific background correction, e.g. subtracting MM.
5. summarizing the probe set values into one expression measure and, in some cases, a standard error for this summary.

We detail what we believe is a good way to proceed below. As mentioned the function `expresso` provides many options. For example,

```
R> eset <- expresso(affybatch, normalize.method="qspline", bg.method="rma",pmcorrect.
```

This will store expression values, in the object `eset`, as an object of class `exprSet` (see the *Biobase* package). You can either use R and the Bioconductor packages to analyze your expression data or if you rather use another package you can write it out to a tab delimited file like this

```
R> write.exprs(eset, file="mydata.txt")
```

In the `mydata.txt` file, row will represent genes and columns will represent samples/arrays. The first row will be a header describing the columns. The first column will have the *affyID*s. The `write.exprs` function is quite flexible on what it writes (see the help file).

For users of Microsoft Windows, who wish to use Excel, the convenient function `exprs2excel` will write out a comma delimted file of expression values. You should be able to open this file by double clicking in Windows (use a `.csv` file extension).

```
R> exprs2excel(eset,file="mydata.csv")
```

3.3.1 expresso

The function `expresso` performs the steps background correction, normalization, probe specific correction, and summary value computation. We now show this using an `AffyBatch` included in the package for examples. The command `data(affybatch.example)` is used to load these data.

Important parameters for the expresso function are:

bgcorrect.method . The background correction method to use. The available methods are

```
> bgcorrect.methods

[1] "mas"  "none" "rma"  "rma2"
```

normalize.method . The normalization method to use. The available methods can be queried by using `normalize.methods`.

```
> data(affybatch.example)
> normalize.methods(affybatch.example)

[1] "constant"         "contrasts"        "invariantset"     "loess"
[5] "qspline"          "quantiles"        "quantiles.robust"
```

pmcorrect.method The method for probe specific correction. The available methods are

```
> pmcorrect.methods

[1] "mas"        "pmonly"     "subtractmm"
```

summary.method . The summary method to use. The available methods are

```
> express.summary.stat.methods

[1] "avgdiff"      "liwong"       "mas"          "medianpolish" "playerout"
```

Here we use `mas` to refer to the methods described in the Affymetrix manual version 5.0.

widget Making the `widget` argument `TRUE`, will let you select missing parameters (like the normalization method, the background correction method or the summary method). Figure 2 shows the widget for the selection of preprocessing methods for each of the steps.

```
R> expresso(affybatch.example, widget=TRUE)
```

There is a separate vignette **affy: Built-in Processing Methods** which explains in more detail what each of the preprocessing options does.

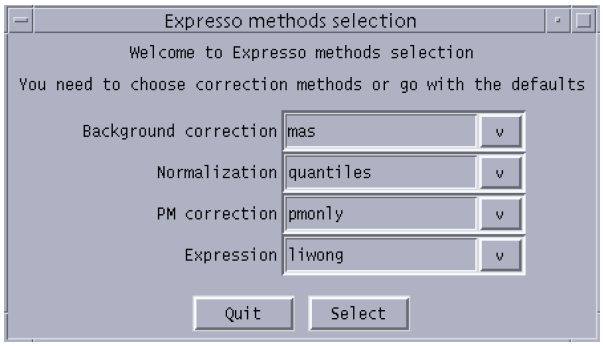

Figure 2: Graphical display for selecting expresso methods.

3.3.2 MAS 5.0

To obtain expression values that correspond to those from MAS 5.0, use `mas5`, which wraps `expresso` and `affy.scalevalue.exprSet`.

```
> eset <- mas5(affybatch.example)

background correction: mas
PM/MM correction : mas
expression values: mas
background correcting...done.
150 ids to be processed
|                    |
|####################|
```

A detailed comparison between the MAS 5.0 values that are computed by *affy* and by *Affymetrix*'s software can be found at `http://stat-www.berkeley.edu/~bolstad/MAS5diff/Mas5difference.html`.

To obtain MAS 5.0 presnce calls you can use the `mas5calls` method.

```
> Calls <- mas5calls(affybatch.example)

Getting probe level data...
Computing p-values
Making P/M/A Calls
```

This returns an `exprSet` with P/M/A calls in the `exprs` slot and the wilcoxon p-values in the `se.exprs` slot.

3.3.3 Li and Wong's MBEI (dchip)

To obtain our version of Li and Wong's MBEI one can use

```
R> eset <- expresso(affybatch.example, normalize.method="invariantset",
                    bg.correct=FALSE,
                    pmcorrect.method="pmonly",summary.method="liwong")
```

This gives the current PM-only default. The reduced model (previous default) can be obtained using `pmcorrect.method="subtractmm"`.

3.3.4 C implementation of RMA

One of the quickest ways to compute expression using the *affy* package is to use the `rma` function. We have found that this method allows a user to compute the RMA expression measure in a matter of minutes for datasets that may have taken hours in previous versions of *affy*. The function serves as an interface to a hard coded C implementation of the RMA method (Irizarry et al., 2003b). Generally, the following would be sufficient to compute RMA expression measures:

```
> eset <- rma(affybatch.example)

Background correcting
Normalizing
Calculating Expression
```

Currently the `rma` function implements RMA in the following manner

1. Probe specific correction of the PM probes using a model based on observed intensity being the sum of signal and noise
2. Normalization of corrected PM probes using quantile normalization (Bolstad et al., 2003)
3. Calculation of Expression measure using median polish.

The `rma` function is likely to be improved and extended in the future as the RMA method is fine-tuned.

4 Quality Control through Data Exploration

For the users convenience we have included the `affybatch.example` sample data set:

```
> affybatch.example

An object of class "AffyBatch"
Slot "exprs":
             20A     20B     10A
    [1,]   987.3   603.5   841.8
    [2,]   127.3   202.0   118.0
    [3,]  1048.8   668.0   958.0
    [4,]   127.0   164.8   109.0
    [5,]  1050.8   560.0   872.0
    [6,]   130.5    99.0   105.0
    [7,]   975.3   613.5   964.0
    [8,]   143.3   161.0   117.0
    [9,]  1046.5   647.0  1061.3
   [10,]   152.0   232.3   123.0
   [11,]  1046.5   560.0   936.0
   [12,]   158.0   113.0   112.3
   [13,]   940.8   558.0   824.0
   [14,]   135.0   129.0   121.0
   [15,]   900.3   543.0   958.0
   [16,]   143.0   133.5   108.0
   [17,]   988.8   514.0   880.0
   [18,]   122.3   125.0   103.0
   [19,]   949.0   537.8   966.0
   [20,]   141.3   119.0   105.0
   [21,]   960.3   533.0  1012.5
   [22,]   144.3   106.3   105.0
   [23,]   953.0   541.0   983.0
   [24,]   118.3   132.0   136.0
   [25,]   991.8   567.5   927.0
   [26,]   133.0   134.0   110.0
   [27,]  1000.5   554.0   985.8
   [28,]   136.3   133.3    97.0
   [29,]   920.3   511.0   976.0
   [30,]   155.8   161.0   110.8
   [31,]   898.0   575.0   887.0
   [32,]   125.0   130.0   101.0
   [33,]   938.8   550.0  1075.0
   [34,]   124.3   107.0   112.0
```

```
[35,]   923.5   629.0  1092.0
[36,]   129.8   139.0   111.5
[37,]   953.3   588.0  1074.0
[38,]   128.8   102.0   112.0
[39,]   961.5   504.0  1123.8
[40,]   117.0   105.0   102.0
[41,]   959.0   520.0   917.0
[42,]   135.3   132.5   101.0
[43,]   959.0   527.8   928.0
[44,]   135.8   143.3   112.0
[45,]   867.8   587.0  1002.0
[46,]   118.8   101.5   102.5
[47,]   916.5   506.0   893.8
[48,]   113.8   121.0   101.3
[49,]   930.3   578.5   977.5
[50,]   123.5   108.0   111.0
[51,]   811.0   527.8  1011.0
[52,]   121.5   133.3   109.8
[53,]   859.0   544.0   935.8
[54,]   131.0   161.3   110.3
[55,]   893.5   592.8   978.0
[56,]   144.0   114.8   102.3
[57,]   953.0   576.3  1030.5
[58,]   148.8   137.5   100.5
[59,]   842.0   620.0  1096.0
[60,]   130.0   181.5   104.3
[61,]   860.8   589.0  1111.3
[62,]   128.0   121.0   107.8
[63,]   924.0   550.3  1185.3
[64,]   150.0   125.0   107.3
[65,]   777.0   518.0   988.5
[66,]   135.0   113.0   119.3
[67,]   871.5   561.0   950.8
[68,]   137.0   128.0   118.0
[69,]   900.0   543.0   978.0
[70,]   136.0    94.0   109.5
[71,]   806.0   478.0   875.0
[72,]   122.0    97.0   100.0
[73,]   963.0   553.0   835.3
[74,]   120.8   101.0   111.0
[75,]   919.0   519.8   950.0
[76,]   132.0   113.0   105.0
```

```
 [77,]   824.0   516.0   885.0
 [78,]   130.0   126.5   103.0
 [79,]   913.0   546.0   897.8
 [80,]   129.5   107.0   107.0
 [81,]   870.0   584.5  1078.0
 [82,]   128.0   167.0    97.5
 [83,]   937.5   566.0  1034.0
 [84,]   145.0   141.5    99.0
 [85,]   877.0   622.0   947.8
 [86,]   133.5   207.0   114.0
 [87,]   880.0   629.5  1035.0
 [88,]   133.0   131.0   105.3
 [89,]   913.5   543.0   941.0
 [90,]   141.0   153.5   102.0
 [91,]   915.0   626.0   951.3
 [92,]   127.8   117.0   113.0
 [93,]   828.0   564.0   983.0
 [94,]   140.0   116.0   104.0
 [95,]   917.3   621.0  1056.5
 [96,]   155.0   128.3   100.0
 [97,]   960.0   615.0  1070.0
 [98,]   130.5   153.0   103.3
 [99,]   969.0   587.3  1170.0
[100,]   127.0   149.0   108.0
[101,]   826.3   562.3  1093.8
[102,]   149.0   118.0   124.0
[103,]   859.0   603.5   775.0
[104,]   143.5   124.8   116.5
[105,]   854.0   593.8  1011.0
[106,]   132.0   111.0   105.0
[107,]   852.3   519.0   957.0
[108,]   130.0    98.0   115.0
[109,]   870.0   596.5   945.0
[110,]   115.8   114.3   110.5
[111,]   777.0   575.5  1031.0
[112,]   131.0   143.0   122.5
[113,]   870.0   640.3  1136.3
[114,]   131.8   124.0   122.0
[115,]   879.0   625.3   950.5
[116,]   140.0   129.0   107.3
[117,]   885.3   625.0  1112.3
[118,]   122.0   172.0   103.5
```

```
[119,]   904.0   688.0  1173.3
[120,]   133.3   178.0   107.3
[121,]   928.0   679.0  1122.0
[122,]   136.0   145.8    98.8
[123,]   919.8   642.0  1067.8
[124,]   123.0   138.0   101.0
[125,]   949.0   636.8  1184.0
[126,]   132.5   131.0   110.3
[127,]   957.0   619.0  1123.3
[128,]   130.0   113.8   106.5
[129,]   948.3   664.0  1065.5
[130,]   125.0   119.0   103.8
[131,]   932.0   639.8  1164.5
[132,]   133.5   164.0   110.0
[133,]   950.0   647.0  1110.0
[134,]   124.0   124.3   109.5
[135,]   917.3   630.0  1106.0
[136,]   132.0   177.0   123.0
[137,]   927.0   689.8  1069.0
[138,]   119.0   199.0   120.0
[139,]   937.0   616.0  1050.0
[140,]   135.0   141.5   105.8
[141,]   965.8   639.0  1064.0
[142,]   127.0   107.0   106.0
[143,]   877.0   608.0  1032.0
[144,]   131.0   146.0   109.3
[145,]   927.0   630.0  1006.0
[146,]   137.0   209.5   124.0
[147,]   933.5   704.0  1007.8
[148,]   140.0   239.0   115.0
[149,]   934.0   677.8  1037.0
[150,]   130.3   136.0   110.3
[151,]   884.0   617.0   947.0
[152,]   126.0   120.0   114.0
[153,]   865.0   611.0  1069.0
[154,]   146.5   110.0   111.0
[155,]   912.0   661.5   855.0
[156,]   117.0   107.5   140.3
[157,]   940.3   601.3  1019.0
[158,]   137.8   141.3   126.0
[159,]   905.5   659.0  1037.3
[160,]   135.5   148.5   114.0
```

```
[161,]   891.5   617.0   897.0
[162,]   127.0    99.8   127.0
[163,]   870.5   641.5   847.0
[164,]   142.0   175.0   126.0
[165,]   874.3   682.5   987.3
[166,]   137.0   203.5   119.0
[167,]   920.5   693.8   906.0
[168,]   129.5   137.8   116.8
[169,]   957.5   623.5  1063.0
[170,]   132.8   148.3   117.0
[171,]   910.5   643.8  1036.3
[172,]   132.5   134.3   118.0
[173,]   915.0   683.3   919.0
[174,]   117.8   103.3   110.0
[175,]   916.5   673.0  1111.3
[176,]   133.3   112.0   106.8
[177,]   933.0   661.0  1208.8
[178,]   132.8   105.3   111.0
[179,]   931.0   691.0  1151.3
[180,]   131.3   134.0   100.3
[181,]   959.8   663.0  1107.8
[182,]    87.3    74.0    81.0
[183,]   409.3   331.0   398.8
[184,]    77.3    61.8    69.3
[185,]   122.3    94.0    94.3
[186,]    91.3    81.0    92.5
[187,]   905.0   636.5  1245.5
[188,]   124.8   103.0   106.3
[189,]   907.3   614.0  1095.5
[190,]   120.3   106.3   114.3
[191,]   844.0   593.0   878.3
[192,]   132.5   174.0   103.8
[193,]   877.8   744.0  1029.5
[194,]   131.8   167.0   118.0
[195,]   873.5   697.0  1007.0
[196,]   141.8   113.8   103.0
[197,]   889.3   588.0   933.0
[198,]   122.5   105.0   119.0
[199,]   854.5   601.5   983.8
[200,]   142.5   103.0   109.0
[201,]   841.0   615.0   899.0
[202,]   129.8   140.5   110.3
```

```
[203,]   847.0   694.0   999.0
[204,]   130.8   236.0   102.0
[205,]   860.3   667.3  1084.8
[206,]   125.3   107.0   101.0
[207,]   815.3   650.0  1057.0
[208,]   123.0   133.8   104.3
[209,]   855.0   664.0  1038.0
[210,]   138.0   122.0    96.0
[211,]   729.0   594.5  1096.0
[212,]   120.8   106.0   100.0
[213,]   711.0   619.3   933.0
[214,]   127.0   110.5   109.5
[215,]   798.0   642.0   803.0
[216,]   132.0   114.3   116.0
[217,]   800.0   631.5   734.0
[218,]   126.5   107.0   108.0
[219,]   862.0   663.3   892.0
[220,]   118.0    93.0   117.8
[221,]   835.5   605.3  1070.0
[222,]   145.0    89.5   102.0
[223,]   886.0   614.0  1040.3
[224,]   136.5    87.8   103.0
[225,]   900.0   589.5   981.0
[226,]   138.0    90.3    95.0
[227,]   941.8   629.3  1062.0
[228,]   121.0    95.8   104.0
[229,]   899.0   608.3  1061.5
[230,]   127.0    84.8   110.0
[231,]   846.0   594.8   961.0
[232,]   128.0    86.3   114.8
[233,]   860.0   538.0   927.0
[234,]   122.3   101.5   112.0
[235,]   793.0   597.0   855.5
[236,]   149.0   113.0   123.0
[237,]   785.8   573.8   915.0
[238,]   125.0   107.0   105.8
[239,]   785.0   544.0  1055.0
[240,]   118.0    90.8   106.5
[241,]   745.0   568.0  1036.8
[242,]   128.0    89.0   108.3
[243,]   817.5   558.8  1085.5
[244,]   132.0    93.0   117.8
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[246,]   137.3    89.3    99.3
[247,]   994.0   570.0   955.8
[248,]   118.0    80.0   104.5
[249,]   845.8   594.3  1081.0
[250,]   133.0    97.0   112.8
[251,]   937.0   565.0  1033.5
[252,]   124.3    86.3   119.5
[253,]   894.0   570.0  1015.3
[254,]   143.0   100.0   114.0
[255,]   962.0   595.0  1018.0
[256,]   161.0    95.0   122.5
[257,]   975.0   542.0   974.8
[258,]   137.3    91.3   118.0
[259,]   868.0   578.0   990.0
[260,]   124.0    85.0   131.0
[261,]   964.8   580.0  1004.0
[262,]   118.0    84.0    92.0
[263,]   961.0   554.0  1029.0
[264,]   127.0    82.3   118.0
[265,]   914.0   560.0   931.0
[266,]   118.0    85.0   115.5
[267,]   955.5   591.3  1022.0
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[270,]   132.5    84.0   111.0
[271,]   886.0   561.0   964.0
[272,]   122.0    80.5   116.3
[273,]   957.0   576.0   938.0
[274,]   120.5   102.0   121.0
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[277,]   873.8   555.3   953.0
[278,]   124.0    96.3   114.3
[279,]   751.0   591.5  1034.0
[280,]   133.3   116.5   123.0
[281,]   723.0   585.5  1094.3
[282,]   124.0    96.8   107.0
[283,]   939.8   604.5  1030.0
[284,]   121.0   100.0   113.3
[285,]   920.0   555.3  1045.0
[286,]   126.5    94.0   113.0
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[289,]   956.0   539.5   844.0
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[291,]   903.0   530.8   998.5
[292,]   140.0    84.0   126.0
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[295,]  1016.5   547.0  1017.0
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[318,]   127.5   112.0    97.0
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[320,]   114.5    98.5   113.5
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[322,]   122.8    99.0   114.0
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[324,]   123.0    91.0   117.5
[325,]   998.8   536.0   983.0
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[327,]  1053.5   494.0  1003.8
[328,]   128.3    87.0   115.0
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[370,]   128.8    86.3   109.0
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[412,]   143.5    93.0   122.0
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[453,]   920.0   656.8  1090.5
[454,]   124.0    93.8   103.0
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[495,]   806.5   607.0   972.0
[496,]   125.5    92.0   100.5
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[652,]   115.3   150.0   107.3
[653,]   811.0   525.3   363.0
[654,]   115.0    97.0    92.0
[655,]   108.5    93.0    90.0
[656,]   108.0    83.5    89.0
[657,]   102.0    79.0    89.0
[658,]   103.3    76.0    90.0
[659,]    99.0    85.5    90.0
[660,]   108.0    84.3    88.0
[661,]   170.0   112.0   120.5
[662,]   258.0   223.5   161.0
[663,]   105.0    88.0   103.0
[664,]   429.8   299.5   232.5
```

```
[665,]   610.0   441.3   400.3
[666,]   468.0   360.3   372.3
[667,]   142.5   134.3   133.8
[668,]   124.0    95.0   109.0
[669,]   104.0    83.0    93.8
[670,]   110.3   117.5   100.3
[671,]   529.0   371.5   362.3
[672,]    94.0    92.0    92.5
[673,]   126.0   125.3   115.0
[674,]   753.8   514.5   932.3
[675,]   828.0   605.3  1036.8
[676,]   835.0   561.0   959.8
[677,]   121.3   133.0   103.5
[678,]    93.0    80.3    76.3
[679,]   119.0    85.0   117.0
[680,]   116.8    91.0   117.3
[681,]   115.0    98.0   110.5
[682,]   130.0    96.0   108.3
[683,]   130.3    99.3   101.5
[684,]    89.0    94.0    86.5
[685,]   137.0   101.0   107.8
[686,]   130.8    96.3   110.5
[687,]   112.0    91.0    99.0
[688,]   114.0    95.0   102.0
[689,]   122.0    90.5   115.5
[690,]    90.0    67.0    81.0
[691,]   126.0    97.0   108.0
[692,]   126.8    95.8   101.3
[693,]   130.0    97.0   104.0
[694,]   115.0    95.0   101.0
[695,]   121.3    99.0    94.5
[696,]    87.0    98.0    85.0
[697,]   146.0   123.0    96.0
[698,]   726.3   574.5   897.0
[699,]   827.0   636.0  1022.0
[700,]   845.0   577.0   933.0
[701,]   118.3   112.3   111.0
[702,]   100.0    95.0    73.0
[703,]   820.0   616.3  1074.0
[704,]   143.3   115.0   107.5
[705,]   123.0   109.0   117.0
[706,]   132.0   104.0   110.0
```

```
[707,]   113.3    97.0   103.8
[708,]    87.0    83.0    82.0
[709,]   116.0    85.3   102.0
[710,]   127.5    86.0    95.8
[711,]   123.0    90.0   109.0
[712,]   114.0    97.3   121.0
[713,]   131.0    91.0   106.3
[714,]   110.0    71.0    84.0
[715,]   120.0    84.0    94.0
[716,]   118.0    99.0   106.0
[717,]   114.3   109.0   110.0
[718,]   131.0    99.8   106.0
[719,]   124.0    94.0    97.5
[720,]    81.0    72.3    84.0
[721,]    93.0   122.0    83.0
[722,]   306.0   277.3   230.3
[723,]  2150.0  1393.3  1660.0
[724,]   204.0   197.5   143.0
[725,]   221.0   189.8   168.5
[726,]   114.0   170.5    85.0
[727,]   868.0   626.8  1056.0
[728,]   142.0   119.5   105.5
[729,]   124.3   135.3   101.5
[730,]   138.0   209.8   124.0
[731,]   932.0   688.8   940.5
[732,]   107.5    95.5    89.8
[733,]   148.0   117.0   100.8
[734,]   801.0   531.5   984.5
[735,]   888.0   599.8  1080.8
[736,]   930.0   568.5   998.3
[737,]   133.0   108.0   106.5
[738,]   103.5    82.0    80.0
[739,]    87.0   104.5    80.3
[740,]   239.0   215.0   200.0
[741,]   659.8   487.0   492.8
[742,]  1724.0  1080.0  1180.8
[743,]   641.0   425.0   478.8
[744,]    88.3   102.0    93.0
[745,]   865.0   544.8  1002.3
[746,]   135.3    97.0   103.0
[747,]   131.5   102.0   109.3
[748,]   143.0   103.5   113.3
```

```
[749,]   889.8   613.0   997.3
[750,]    95.5    83.0    84.5
[751,]   121.3   111.8   109.0
[752,]   783.5   546.0  1002.0
[753,]   846.0   590.0  1056.5
[754,]   884.0   574.5   963.0
[755,]   141.8    94.0   102.0
[756,]    93.0   106.0    76.3
[757,]   829.5   619.0  1098.0
[758,]   834.0   580.0  1035.0
[759,]   868.3   605.0  1098.0
[760,]   829.8   608.0   976.0
[761,]   939.8   645.0  1062.0
[762,]    92.5   102.3    80.3
[763,]   125.3   144.0   101.0
[764,]   131.5   145.0   109.0
[765,]   900.0   621.8  1168.5
[766,]   141.3   127.0   102.0
[767,]   135.0    99.0   105.0
[768,]   101.3    75.5    83.8
[769,]    98.0    87.0    86.0
[770,]   142.5   125.0   110.0
[771,]   184.3   214.0   158.3
[772,]  1155.8   834.0   817.0
[773,]   735.5   477.0   482.0
[774,]   216.0   180.8   155.0
[775,]   406.3   317.0   357.0
[776,]   272.3   326.8   247.0
[777,]   429.5   385.5   391.5
[778,]   256.5   231.3   201.0
[779,]   144.0   123.3   145.0
[780,]   135.3   103.0   101.3
[781,]   139.5   106.3    97.0
[782,]   104.5    91.5    91.0
[783,]   111.8    91.0    96.0
[784,]   378.3   279.3   234.3
[785,]   125.8   181.0   104.0
[786,]  1525.5  1028.0   851.0
[787,]   333.8   349.5   256.8
[788,]  1319.3  1037.5  1132.0
[789,]   290.0   286.0   241.0
[790,]   136.3   142.0   115.3
```

```
[791,]   117.8   108.3    95.0
[792,]   116.3    95.0    91.5
[793,]   178.3   138.5   165.3
[794,]   188.5   150.8   158.0
[795,]   165.5   118.3   102.5
[796,]   102.3    81.0    87.5
[797,]   108.5   108.0    98.3
[798,]   401.0   336.5   260.5
[799,]  2385.0  1700.0  1473.5
[800,]  1389.8   941.0  1018.5
[801,]   159.0   125.0   128.0
[802,]   545.0   413.0   446.0
[803,]   628.3   575.0   397.0
[804,]   769.0   972.8   619.8
[805,]   862.0   837.0   658.3
[806,]  1118.5   851.0   965.8
[807,]   206.0   263.3   203.3
[808,]   913.0   651.0   702.8
[809,]   331.8   268.0   287.3
[810,]   367.0   307.3   306.5
[811,]   427.0   354.0   378.5
[812,]   480.8   345.0   327.5
[813,]   132.0    98.3   115.0
[814,]   135.0   107.0   107.0
[815,]   420.5   286.0   250.0
[816,]   259.0   204.8   247.0
[817,]   167.0   143.0   165.0
[818,]   271.0   209.3   209.0
[819,]   268.0   253.0   209.0
[820,]  2169.0  1508.0  1424.8
[821,]   888.0   686.3   573.0
[822,]    87.0    75.0    69.0
[823,]   116.0   101.0   124.0
[824,]    83.3    67.3    78.0
[825,]   111.0    85.0   107.0
[826,]    87.0    93.0    86.5
[827,]   172.8   169.8   173.0
[828,]   403.0   278.0   288.0
[829,]   427.0   283.0   330.0
[830,]   229.3   200.8   190.0
[831,]   319.0   256.0   240.0
[832,]   180.0   207.0   141.0
```

```
[833,]   744.0   677.8   534.3
[834,]   196.0   258.0   166.0
[835,]   806.0   622.5   563.0
[836,]   128.0   119.5   100.8
[837,]   175.0   132.3   126.0
[838,]   156.0   116.5   121.0
[839,]   167.0   138.0   122.3
[840,]   128.0    99.0   103.0
[841,]   532.0   389.3   310.0
[842,]   229.0   227.5   159.3
[843,]  1990.5  1538.3  1321.0
[844,]   933.0   750.5   670.0
[845,]   106.0   108.3    87.8
[846,]    86.8    88.3    84.0
[847,]   161.0   132.0   120.0
[848,]   140.0   137.0   139.5
[849,]   129.5   129.8   111.0
[850,]   124.0   144.3   103.0
[851,]   125.0   102.0    98.5
[852,]   112.3    94.5   107.0
[853,]   193.0   154.0   150.0
[854,]   210.0   158.0   158.8
[855,]   475.3   321.0   337.0
[856,]   304.0   213.0   228.0
[857,]   140.0   105.5   123.5
[858,]   132.3    95.0   109.0
[859,]   114.0    88.0    89.0
[860,]   180.0   143.0   154.8
[861,]   106.5    81.0    83.0
[862,]   114.0    79.0    95.5
[863,]   104.0    68.8    90.3
[864,]   105.3    74.0    89.0
[865,]    99.0    71.0    82.8
[866,]    95.0    64.8    80.5
[867,]   104.8    68.0    86.8
[868,]   100.0    73.0    81.0
[869,]    93.0    72.0    85.0
[870,]    94.5    73.0    76.5
[871,]   396.0   281.0   256.3
[872,]   124.0    78.3   114.3
[873,]   147.0   132.0   124.5
[874,]   323.0   278.0   273.5
```

```
[875,]   383.0   320.8   276.0
[876,]  1626.0   992.0  1072.3
[877,]   133.5    93.5   130.0
[878,]    99.0    78.0    92.3
[879,]   539.0   349.0   416.0
[880,]   174.8   143.3   143.0
[881,]   173.0   111.0   116.0
[882,]   152.0   108.0   129.0
[883,]   121.0    89.3    95.0
[884,]   299.0   215.0   229.0
[885,]   224.0   193.0   190.3
[886,]   373.3   243.0   347.0
[887,]   136.0    79.0    94.0
[888,]    98.0    67.0    83.8
[889,]   193.8   133.3   161.0
[890,]   161.0   122.0   149.0
[891,]   127.0    92.0   104.3
[892,]   110.8    73.8    93.0
[893,]   128.0    96.0   112.0
[894,]   334.0   239.8   279.3
[895,]   246.5   188.5   234.0
[896,]  1105.0   720.8   933.0
[897,]   366.0   218.8   321.3
[898,]   134.5    84.3    97.0
[899,]   454.0   329.3   329.0
[900,]   186.0   129.3   161.8
[901,]   400.5   241.5   217.0
[902,]   120.0    65.8    88.0
[903,]   191.0   127.3   125.0
[904,]    90.8    68.5    86.0
[905,]   127.3    96.3   111.0
[906,]   177.0   106.3   137.8
[907,]   593.8   364.8   429.0
[908,]   155.0    93.5   123.0
[909,]   211.0   129.8   165.3
[910,]   185.5   131.5   164.0
[911,]   172.3   117.3   142.0
[912,]  1094.0   672.0   791.8
[913,]   414.5   242.0   327.0
[914,]   118.3    80.0   152.0
[915,]  5573.0  3556.0  4953.0
[916,]   110.5    84.5   116.0
```

```
[917,]   152.0   114.0   128.0
[918,]   104.5    79.0    98.3
[919,]   250.8   186.5   163.0
[920,]   157.0   129.0   127.8
[921,]   163.3   141.0   142.5
[922,]   198.0   136.8   150.0
[923,]   189.8   154.0   196.5
[924,]   247.0   186.0   219.3
[925,]   254.5   181.8   249.8
[926,]   348.3   244.0   268.3
[927,]   401.5   239.0   333.8
[928,]   110.3    90.5   103.3
[929,]   104.3    77.0    87.8
[930,]   115.8    78.0    89.0
[931,]   221.3   133.5   141.8
[932,]   649.8   413.0   387.8
[933,]   180.3   132.0   146.3
[934,]   238.0   166.3   234.0
[935,]   151.8   108.0   122.0
[936,]   166.5   114.5   159.5
[937,]   123.8    91.0   101.3
[938,]   415.5   255.0   322.0
[939,]   110.0    71.8    94.5
[940,]   108.8    71.0    91.5
[941,]    89.3    68.0    96.8
[942,]   103.3    66.8    96.0
[943,]   201.3   130.0   154.5
[944,]   140.3    97.0   108.0
[945,]   165.8   113.8   148.0
[946,]   592.3   302.0   349.3
[947,]   127.5    94.0   134.0
[948,]   165.5   108.0   135.0
[949,]   215.0   135.0   160.0
[950,]   223.3   153.3   170.0
[951,]   106.8    94.3    95.0
[952,]   109.5    73.5    83.0
[953,]   318.0   174.5   216.0
[954,]   268.5   189.8   203.0
[955,]   102.3    88.3    86.0
[956,]   168.3   107.8   129.0
[957,]   855.8   482.8   594.0
[958,]   115.0    87.3    84.5
```

```
 [959,]   204.0   131.8   147.0
 [960,]   101.0    86.0    98.0
 [961,]    98.0    66.8    86.5
 [962,]    84.0    80.5    85.0
 [963,]   126.3    83.8   102.0
 [964,]   381.0   171.8   233.5
 [965,]   167.0   104.3   139.0
 [966,]   326.8   176.3   244.0
 [967,]   259.0   122.8   180.8
 [968,]   168.0   106.3   173.0
 [969,]   267.5   145.8   196.0
 [970,]   164.0   114.0   148.0
 [971,]   849.0   421.0   647.0
 [972,]   418.3   221.5   294.0
 [973,]   110.0    83.0    93.8
 [974,]   211.0   124.0   188.0
 [975,]   249.0   150.5   238.0
 [976,]   118.0    81.0    96.3
 [977,]   682.0   394.0   520.0
 [978,]   318.0   175.8   246.0
 [979,]   200.0   114.0   180.0
 [980,]   137.0    90.0   112.5
 [981,]   191.5   107.0   125.0
 [982,]   121.0    79.0    87.0
 [983,]   191.0   115.0   176.8
 [984,]   219.3   132.5   161.0
 [985,]   358.0   205.0   286.5
 [986,]   492.0   211.0   328.3
 [987,]   319.3   155.0   231.8
 [988,]   205.0   123.0   161.8
 [989,]   169.0   106.0   133.8
 [990,]   815.5   334.0   614.3
 [991,]   431.0   274.0   348.5
 [992,]   699.0   361.0   463.0
 [993,]   721.0   380.8   549.0
 [994,]   528.0   196.0   331.5
 [995,]  4393.0  1780.3  2946.3
 [996,]  4920.0  1816.0  3377.8
 [997,]   627.3   194.0   419.3
 [998,]   104.0    70.0    98.8
 [999,]   110.0    75.0    95.8
[1000,]   101.3    73.0    94.0
```

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[1001,]   102.0    79.0    94.8
[1002,]   103.0    65.0    93.3
[1003,]   178.0    86.0   165.3
[1004,]   107.0    68.0    81.8
[1005,]    98.0    66.0    85.5
[1006,]   166.0    81.0   124.0
[1007,]    93.0    63.5    76.8
[1008,]   104.0    62.0    84.0
[1009,]   119.3    73.3    96.0
[1010,]  2328.0   531.8  1239.0
[1011,]  1019.0   431.5   780.0
[1012,]  2812.0  1219.3  2213.0
[1013,]  9043.0  2735.3  7244.0
[1014,]   532.0   214.0   363.0
[1015,]   391.0   156.8   271.0
[1016,]   480.0   176.5   287.0
[1017,]   787.0   306.5   466.0
[1018,]   110.3    73.0    94.0
[1019,]   129.0    79.3    94.3
[1020,]   113.0    75.0    86.0
[1021,]   118.0    82.3   108.0
[1022,]   263.0   139.0   199.3
[1023,]   264.0   157.3   229.0
[1024,]   118.5    81.8   120.0
[1025,]   131.0    91.5   119.0
[1026,]   174.0    93.5   114.0
[1027,]   275.5   146.3   174.0
[1028,]   145.0    91.3   110.0
[1029,]   135.0    90.0   119.0
[1030,]    95.3    80.0    88.0
[1031,]   309.0   165.3   242.0
[1032,]   108.0    82.0    91.0
[1033,]   662.0   323.0   443.0
[1034,]   112.3    77.5    94.0
[1035,]    79.0    51.0    83.5
[1036,]   132.0    80.0   113.0
[1037,]    83.0    60.0    83.0
[1038,]    99.0    76.0    96.3
[1039,]    89.0    63.0    72.0
[1040,]   265.3   160.0   210.0
[1041,]   150.0   112.0   157.3
[1042,]   115.0    85.0    97.0
```

```
[1043,]   116.5    76.5    92.0
[1044,]   117.0    80.0   104.8
[1045,]   131.0    90.0   105.0
[1046,]   139.3    88.3   101.0
[1047,]   203.0   117.0   167.0
[1048,]   115.0    79.0    96.8
[1049,]   104.0    69.0    89.3
[1050,]   127.0    85.0   105.5
[1051,]   383.0   275.0   325.0
[1052,]   590.3   338.0   419.3
[1053,]   628.0   367.0   524.3
[1054,]   137.0    82.0   112.3
[1055,]   176.3   104.0   127.3
[1056,]  3269.0  1949.0  2287.0
[1057,]   429.0   326.3   396.0
[1058,]  8137.8  4817.0  6515.8
[1059,]   430.0   283.0   312.3
[1060,]   940.0   589.0   550.8
[1061,]   143.3    87.0   110.0
[1062,]   129.0    88.0   104.5
[1063,]   112.0    78.8    99.0
[1064,]   182.5   133.0   163.3
[1065,]   333.3   228.0   229.3
[1066,]   468.3   325.8   334.3
[1067,]   787.3   460.8   387.8
[1068,]   185.0   138.3   133.3
[1069,]   280.0   186.0   185.3
[1070,]   111.0    59.8    86.0
[1071,]   127.8   100.0   123.3
[1072,]   187.5   119.0   130.0
[1073,]   306.3   194.3   217.0
[1074,]  3421.3  2106.5  2109.8
[1075,]  1401.8   833.0   762.0
[1076,]  1367.5   937.3   958.0
[1077,] 12923.3  7506.5 10189.0
[1078,]   296.3   231.3   239.5
[1079,]   140.0   105.5   129.0
[1080,]   103.3    87.0    98.0
[1081,]   123.3    84.5   109.8
[1082,]   578.8   384.3   365.0
[1083,]   118.0    67.5    95.0
[1084,]   206.0   144.3   161.0
```

```
[1085,]   572.3   364.3   482.0
[1086,]   324.3   196.0   233.0
[1087,]   117.0    65.3    88.0
[1088,]   106.0    65.0    80.0
[1089,]   140.5    87.0   107.0
[1090,]   111.3    77.3    91.3
[1091,]   213.8   166.0   182.0
[1092,]   341.0   214.0   239.0
[1093,]   168.3    93.5   134.0
[1094,]   355.8   254.0   243.0
[1095,]   766.8   475.0   511.0
[1096,]   380.5   256.3   255.5
[1097,]   453.5   309.0   344.0
[1098,]  1329.3   842.0   835.0
[1099,]   424.5   283.0   328.8
[1100,]   124.8    88.0   114.0
[1101,]   136.5    88.0   111.0
[1102,]   300.3   174.0   171.8
[1103,]  2104.8  1279.0  1018.0
[1104,]   113.8    77.0    88.0
[1105,]   103.3    63.0    75.3
[1106,]   160.3   120.0   126.0
[1107,]   570.8   389.0   448.0
[1108,]   146.8   110.8   126.8
[1109,]   113.5    89.0    94.0
[1110,]   471.8   306.0   311.0
[1111,]   458.5   283.0   298.8
[1112,]   204.5   157.0   215.5
[1113,]   121.0    88.8   128.3
[1114,]   158.3   116.0   165.3
[1115,]  2868.0  1716.0  1878.3
[1116,]  1195.8   841.5   919.3
[1117,]  4101.3  2422.0  2744.5
[1118,]   113.0    77.0    97.0
[1119,]   144.0   114.0   104.0
[1120,]   102.8    78.0    78.3
[1121,]   165.0   117.0   122.3
[1122,]   105.0    73.0    89.0
[1123,]   564.3   369.0   294.3
[1124,]   108.0    75.0    90.3
[1125,]    98.0    70.8    92.3
[1126,]    92.5    67.3    86.0
```

```
[1127,]    91.0    70.0    79.5
[1128,]    98.0    71.0    78.0
[1129,]    94.0    68.8    84.8
[1130,]   195.0   129.8   131.0
[1131,]    89.0    61.8    70.8
[1132,]   248.3   167.5   172.3
[1133,]  1408.0  1015.0   894.8
[1134,]   121.0    95.8   102.0
[1135,]   104.3    80.5    94.0
[1136,]   114.0    81.0    87.0
[1137,]   108.0    84.8   103.0
[1138,]   703.3   429.8   446.0
[1139,]   187.0   133.5   153.3
[1140,]   108.0    89.3    99.0
[1141,]   110.3    84.8    98.0
[1142,]   113.0    69.3    94.5
[1143,]    91.0    71.3    83.0
[1144,]    91.3    67.0    79.0
[1145,]   123.0    72.0    87.5
[1146,]   187.0   111.0   119.0
[1147,]   102.8    75.0    91.0
[1148,]   270.0   177.0   237.5
[1149,]   602.0   352.0   402.0
[1150,]   149.5   117.0   156.0
[1151,]   169.0   116.0   157.3
[1152,]   111.0    81.3   113.0
[1153,]   131.0    91.0   102.0
[1154,]   170.5   115.0   148.8
[1155,]   141.0   110.5   121.0
[1156,]   145.0   123.0   120.0
[1157,]   391.8   429.0   303.8
[1158,]  4237.0  2668.5  2905.0
[1159,]  4304.0  2611.0  3098.0
[1160,]  1775.3  1115.0  1278.3
[1161,]   148.0   193.3   140.0
[1162,]   272.0   404.0   195.0
[1163,]   437.5   423.0   255.5
[1164,]   124.0   121.8   104.0
[1165,]   180.0   120.0   125.0
[1166,]   204.3   159.0   159.0
[1167,]   126.0    88.5    94.0
[1168,]   100.0    81.0    94.0
```

```
[1169,]   100.3    80.0    94.8
[1170,]   268.0   194.0   152.0
[1171,]   428.0   269.0   272.0
[1172,]   173.5   134.8   136.5
[1173,]   854.0   550.0   496.0
[1174,]   167.0   136.0   122.0
[1175,]   335.0   250.0   289.0
[1176,]   338.0   272.0   278.5
[1177,]  1583.0   902.0  1040.0
[1178,]  1313.8   847.8   787.8
[1179,]   221.0   156.0   166.3
[1180,]   988.0   655.0   638.5
[1181,]  2302.0  1452.8  1565.5
[1182,]  3403.0  2095.0  2329.8
[1183,]   146.0   119.5   129.5
[1184,]   481.0   325.8   325.5
[1185,]   176.0   122.5   161.5
[1186,]   148.0   111.8   133.3
[1187,]   134.8    96.8   120.5
[1188,]   527.0   351.0   282.0
[1189,]   256.0   176.5   197.0
[1190,]   596.0   416.5   403.0
[1191,]  1868.0  1245.8  1285.5
[1192,]   299.0   204.5   236.3
[1193,]  1210.0   843.8   663.5
[1194,]  1274.3   775.5   799.8
[1195,]   148.0   124.8   107.0
[1196,]   715.0   546.5   645.0
[1197,]   775.5   585.5   668.3
[1198,]   775.0   537.0   611.0
[1199,]   125.0    96.3   112.0
[1200,]   133.0    92.8   116.3
[1201,]   197.0   133.8   121.0
[1202,]   159.0   122.0   152.0
[1203,]  1985.5  1278.0  1261.3
[1204,]   447.0   310.0   346.0
[1205,]   261.0   194.0   179.0
[1206,]   271.0   169.0   209.3
[1207,]   139.0    98.0   124.0
[1208,]  2356.0  1602.5  1836.0
[1209,]   137.5   105.0   137.3
[1210,]   489.0   320.0   356.0
```

```
[1211,]   165.0   114.0   162.0
[1212,]   262.0   166.0   154.3
[1213,]   414.0   296.0   225.0
[1214,]   374.0   266.8   276.0
[1215,]   167.0   112.0   131.3
[1216,]   124.0    91.0   108.0
[1217,]   822.0   590.3   636.0
[1218,]  2298.3  1362.0  1171.5
[1219,]   341.0   224.0   192.0
[1220,]   350.0   239.5   258.0
[1221,]   427.3   294.0   326.0
[1222,]    92.0    71.0    88.0
[1223,]   189.0   140.3   128.0
[1224,]   172.5   120.0   120.0
[1225,]   105.5    67.5    93.8
[1226,]   133.5    91.0   120.0
[1227,]   216.8   145.0   163.0
[1228,]   280.5   208.3   247.0
[1229,]  1045.5   670.0   573.0
[1230,]   723.5   492.0   579.0
[1231,]  5481.0  3633.5  3912.0
[1232,]   451.5   324.0   340.0
[1233,]   648.8   447.0   485.0
[1234,]   399.3   258.5   309.5
[1235,]  2198.5  1445.0  1648.0
[1236,]  5153.5  3114.0  2496.0
[1237,]   506.0   340.5   379.0
[1238,]   100.0    73.0    87.0
[1239,]   106.0    80.0    95.0
[1240,]   561.3   377.3   374.5
[1241,]   514.0   348.5   366.3
[1242,]   151.0   119.5   118.8
[1243,]   141.0   127.5   131.0
[1244,]   196.3   140.5   136.0
[1245,]  1297.5   945.5   899.3
[1246,]    76.3    66.5    81.0
[1247,]   827.0   616.0   947.8
[1248,]   147.3    92.0   113.3
[1249,]   832.5   626.0  1103.5
[1250,]   121.8   105.8    98.5
[1251,]   144.0   119.0   115.0
[1252,]   960.5   573.0  1282.5
```

```
[1253,]   140.0   111.0   127.0
[1254,]  1079.0   583.0  1283.0
[1255,]   107.0   105.3    87.3
[1256,]   708.0   429.0   584.0
[1257,]   541.0   355.0   489.0
[1258,]  1254.5   717.8   760.8
[1259,]   189.0   149.0   155.0
[1260,]   454.0   308.0   325.0
[1261,]   119.3   121.3   128.3
[1262,]   105.0   136.0    98.0
[1263,]   107.0   131.0    93.0
[1264,]   135.3   110.3   134.3
[1265,]   520.0   300.0   369.0
[1266,]   126.0    91.0    92.0
[1267,]   126.3    87.0   100.3
[1268,]   157.0   125.0   142.0
[1269,]   565.0   331.0   369.0
[1270,]   147.5   106.3   135.3
[1271,]   118.0    82.0   106.0
[1272,]   176.0   103.0   137.0
[1273,]   102.0    79.0    99.0
[1274,]   100.3    83.0   101.0
[1275,]   161.0   123.0   109.0
[1276,]   152.0   106.3   121.0
[1277,]   191.8   121.0   135.3
[1278,]   378.0   323.0   251.0
[1279,]   493.0   363.0   335.0
[1280,]   205.8   182.3   144.3
[1281,]   166.0   205.3   137.0
[1282,]   240.0   531.3   197.0
[1283,]  2337.5  1658.3  1689.8
[1284,]   270.0   213.0   182.0
[1285,]   117.0   104.3    96.3
[1286,]   175.3   150.5   119.5
[1287,]   224.0   198.5   158.8
[1288,]   728.0   541.0   555.5
[1289,]   159.8   308.0   128.0
[1290,]  5954.0  3265.8  3614.0
[1291,]   136.0   189.5   105.5
[1292,]   106.8   139.5    94.5
[1293,]   153.0   114.3   108.5
[1294,]   104.0    89.0    80.0
```

```
[1295,]   110.8    84.5    87.5
[1296,]   104.0    83.0    80.3
[1297,]   114.0    86.0    89.5
[1298,]   107.5    72.0    90.8
[1299,]   101.0    71.3   110.3
[1300,]   107.0    70.0    86.5
[1301,]   101.8    78.0    96.0
[1302,]   100.0    82.8    82.5
[1303,]   112.0    83.0    96.5
[1304,]   196.8   157.0   159.0
[1305,]   253.0   190.8   184.0
[1306,]   318.0   252.0   252.0
[1307,]   146.8   119.0   122.5
[1308,]   116.0    95.0    97.0
[1309,]    95.0    83.0    85.0
[1310,]   111.0   103.0   100.8
[1311,]   279.0   202.3   218.0
[1312,]    91.0   107.0    94.0
[1313,]   876.0   534.0  1035.3
[1314,]   134.8   120.0   109.0
[1315,]   135.0   103.0   120.0
[1316,]   131.0   139.0   112.0
[1317,]   836.3   542.3   898.0
[1318,]   103.0    94.0    78.0
[1319,]   125.0    94.0   109.0
[1320,]   125.5    94.3   108.0
[1321,]   125.0   113.0   121.0
[1322,]   129.0   107.0   117.0
[1323,]   119.3   102.3   111.0
[1324,]    94.0   105.0    94.0
[1325,]   125.0   123.0   102.0
[1326,]   133.0   113.0   107.8
[1327,]   142.0   114.0   105.0
[1328,]   130.0   100.0   115.0
[1329,]   134.3    90.3   102.5
[1330,]    89.0    76.0    70.0
[1331,]   128.8    97.0   110.0
[1332,]   125.3   100.8   118.0
[1333,]   125.0   111.0   119.0
[1334,]   126.8   108.0   108.0
[1335,]   135.5   101.3   108.3
[1336,]   102.0   130.0    83.0
```

```
[1337,]   921.0   569.0  1126.0
[1338,]   152.3   119.5   106.8
[1339,]   141.8   118.0   106.0
[1340,]   136.0   126.8   119.0
[1341,]   845.0   569.0   850.3
[1342,]   110.3   116.3    77.0
[1343,]   920.3   595.3  1119.0
[1344,]   161.0   134.0   128.0
[1345,]   137.3   134.8   101.0
[1346,]   141.5   111.5   114.0
[1347,]   140.5    97.8   101.0
[1348,]    98.3    73.5    76.5
[1349,]   120.3    97.8   121.3
[1350,]   118.8    95.0   105.0
[1351,]   124.5    87.3   105.0
[1352,]   139.8   101.3   109.0
[1353,]   129.3    92.8    95.3
[1354,]    93.3    68.5    82.0
[1355,]   123.8    95.0   111.0
[1356,]   131.3   112.0   102.3
[1357,]   124.5   115.0   103.0
[1358,]   143.0   103.8   106.3
[1359,]   132.8    90.0    99.0
[1360,]   103.3    73.0    83.3
[1361,]    98.5   105.3    90.3
[1362,]   205.8   196.0   155.5
[1363,]   266.0   244.0   243.5
[1364,]   225.8   296.8   168.5
[1365,]   399.3   316.0   274.3
[1366,]   150.3   196.0    80.0
[1367,]   927.0   639.3  1129.5
[1368,]   135.5   112.0   107.3
[1369,]   134.3   136.0   114.0
[1370,]   141.0   183.3    97.0
[1371,]   993.5   659.0  1017.0
[1372,]   100.8   104.0    81.0
[1373,]  1018.0   601.0  1224.0
[1374,]   150.3    93.0   106.0
[1375,]   129.5    96.0   110.5
[1376,]   132.3    94.0   127.0
[1377,]   928.3   594.0   936.0
[1378,]   103.3    91.0    68.3
```

```
[1379,]    88.5    99.8   109.0
[1380,]   199.0   250.0   192.0
[1381,]   881.3   569.0   619.5
[1382,]   813.8   715.3   595.0
[1383,]   809.3   505.0   533.0
[1384,]   105.8    96.0    89.0
[1385,]   892.0   558.8   977.0
[1386,]   123.0   104.0   105.0
[1387,]   125.8   108.0   107.0
[1388,]   133.0   105.3   104.0
[1389,]   864.0   601.0   923.0
[1390,]    96.8   111.0    93.0
[1391,]   888.0   589.0  1094.0
[1392,]   137.0   107.0   108.0
[1393,]   137.0   127.0   110.8
[1394,]   141.5   118.8   104.0
[1395,]   910.0   576.0  1018.0
[1396,]    93.0   132.8    87.0
[1397,]   932.0   634.0  1132.0
[1398,]   122.0   125.3   103.0
[1399,]   143.0   112.3   131.3
[1400,]   129.5   114.3    97.0
[1401,]   131.0   101.3   111.0
[1402,]    94.0    80.0    78.3
[1403,]   130.8   139.3   111.0
[1404,]   814.0   588.0   972.0
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[1406,]  1005.5   614.5  1213.0
[1407,]   126.0   123.3   107.0
[1408,]   100.0    68.5    86.8
[1409,]    98.0    84.3    75.0
[1410,]   135.0    98.8    93.0
[1411,]   157.0   164.0   154.0
[1412,]   723.5   550.0   514.5
[1413,]  1079.0   631.5   808.5
[1414,]   186.0   172.5   185.8
[1415,]   404.8   309.5   341.5
[1416,]   244.0   238.0   200.8
[1417,]   355.0   319.5   331.3
[1418,]   202.3   220.0   151.3
[1419,]   119.0   129.0   131.5
[1420,]   120.0    99.5    94.0
```

```
[1421,]   112.3    89.0    93.0
[1422,]   112.0    87.0    83.5
[1423,]   103.0    86.5    88.3
[1424,]   162.3   135.0   109.5
[1425,]   123.0   122.0   103.5
[1426,]   465.0   330.8   302.5
[1427,]   200.5   197.0   129.5
[1428,]   311.0   312.0   216.3
[1429,]   186.0   449.8   159.3
[1430,]   127.3   395.0    99.3
[1431,]   100.0   195.0    87.5
[1432,]   107.0   104.3    90.0
[1433,]   121.0   100.0   102.3
[1434,]   180.8   110.0   134.0
[1435,]   107.0    72.0   100.0
[1436,]   112.0    80.0    84.3
[1437,]   125.3   119.0    95.0
[1438,]   426.0   330.8   283.0
[1439,]  1020.0   741.0   588.5
[1440,]  1189.8   773.0   879.0
[1441,]   193.0   145.5   159.0
[1442,]   413.0   284.0   330.3
[1443,]   280.5   440.0   162.0
[1444,]   665.0  1053.8   567.0
[1445,]  1583.0  1372.0  1326.5
[1446,]   494.0   463.0   378.0
[1447,]   330.0   333.8   281.0
[1448,]  1219.0   737.0   752.3
[1449,]   214.5   185.0   197.0
[1450,]   315.0   236.3   274.0
[1451,]   226.0   199.0   213.5
[1452,]   242.5   185.0   222.0
[1453,]   148.0   122.3   109.0
[1454,]   152.0   117.0   120.8
[1455,]   266.8   179.3   194.0
[1456,]   166.0   117.8   129.0
[1457,]   169.0   140.3   148.8
[1458,]   201.3   205.0   148.0
[1459,]   230.0   249.0   202.0
[1460,]  1040.0   712.3   656.8
[1461,]  1305.3   884.3   916.0
[1462,]    93.0    81.3    81.0
```

```
[1463,]   119.0    78.3    94.0
[1464,]    78.0    67.0    80.0
[1465,]   114.0    91.5    95.0
[1466,]    87.0   105.3    74.3
[1467,]   216.0   191.5   191.0
[1468,]   342.0   291.0   263.0
[1469,]   469.0   345.3   373.0
[1470,]   172.5   231.5   140.0
[1471,]   256.0   485.0   221.0
[1472,]   214.0   593.3   187.0
[1473,]   709.0   705.3   562.0
[1474,]   173.5   212.0   145.0
[1475,]   608.0   476.0   520.5
[1476,]   152.0   129.0   130.8
[1477,]   126.3    95.0   105.3
[1478,]   122.0    92.0   114.5
[1479,]   113.0    87.3    91.8
[1480,]   107.5    99.0    91.8
[1481,]   124.0   112.0   102.8
[1482,]   174.0   147.0   132.3
[1483,]   519.8   449.0   353.8
[1484,]   535.0   434.0   446.0
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[1487,]   169.0   115.0   126.3
[1488,]   114.0    93.8    95.3
[1489,]   136.3   119.0   122.0
[1490,]   110.0   181.0    90.8
[1491,]   104.5   207.0    95.0
[1492,]   111.3   100.0   104.0
[1493,]   189.3   148.0   161.5
[1494,]   189.0   141.3   132.3
[1495,]   212.0   207.0   162.0
[1496,]   177.3   182.0   152.0
[1497,]   152.3   122.8   116.3
[1498,]   103.0    88.0    90.0
[1499,]    98.3    75.0    92.0
[1500,]   128.3    86.3   102.3
[1501,]    97.0    91.0    83.0
[1502,]   104.0    68.0    82.0
[1503,]    99.3    76.5   102.5
[1504,]    93.3    82.0    82.0
```

```
[1505,]   123.0    71.0    88.0
[1506,]   104.8    64.3    79.5
[1507,]    97.5    72.0    90.0
[1508,]   113.8    76.0   101.0
[1509,]   102.0    69.8    85.8
[1510,]   100.3    88.0    90.0
[1511,]   120.8    92.0   104.0
[1512,]   112.3    75.8    86.3
[1513,]   145.8   121.0   127.0
[1514,]   376.3   308.0   336.0
[1515,]   511.5   360.0   352.0
[1516,]   692.5   384.5   512.0
[1517,]   120.8    72.3    94.0
[1518,]   106.5    70.0    92.0
[1519,]   181.3   129.5   182.8
[1520,]   114.8    78.3    81.0
[1521,]   106.5    74.3   100.0
[1522,]   116.8    81.3   107.0
[1523,]   108.8    85.8    87.0
[1524,]   161.5   128.0   158.0
[1525,]   585.8   384.5   379.5
[1526,]   327.5   210.8   267.0
[1527,]   113.3    70.5   111.0
[1528,]    94.0    80.0    93.5
[1529,]   176.5   115.8   121.0
[1530,]   312.5   188.5   253.0
[1531,]   107.0    87.3   107.5
[1532,]   102.8    82.0    83.0
[1533,]   148.0   117.0   115.0
[1534,]   569.3   386.0   520.3
[1535,]   346.5   222.0   277.0
[1536,]   636.3   419.0   583.0
[1537,]   432.0   263.0   387.5
[1538,]   151.0    93.5   125.0
[1539,]   195.5   130.0   169.8
[1540,]   159.8    94.0   143.8
[1541,]   163.0   114.5   154.8
[1542,]   114.0    68.0   106.3
[1543,]   116.0    75.0    96.3
[1544,]   110.0    68.5    91.0
[1545,]   138.0    86.0   127.5
[1546,]   279.0   184.0   251.3
```

```
[1547,]   796.5   492.5   650.8
[1548,]   185.0    95.0   142.0
[1549,]   186.0   117.0   170.0
[1550,]   171.8    97.3   126.5
[1551,]   211.0   132.0   143.8
[1552,]   561.0   321.0   352.0
[1553,]   480.0   274.8   357.0
[1554,]   139.0    72.0   109.5
[1555,]   500.0   299.0   441.0
[1556,]    94.0    64.0    97.8
[1557,]   109.0    75.0    90.3
[1558,]   101.0    70.0    75.8
[1559,]   103.0    72.0    86.0
[1560,]   106.3    82.0   101.0
[1561,]   139.0   116.0   106.3
[1562,]   130.0   157.0   101.0
[1563,]   136.5   147.0   125.0
[1564,]   187.0   157.0   152.3
[1565,]   185.0   133.5   169.0
[1566,]   165.3   120.0   131.0
[1567,]   194.0   135.0   168.0
[1568,]   113.0    94.3    86.3
[1569,]    99.3    83.0    90.0
[1570,]   142.0    95.0   115.0
[1571,]   139.0    99.3   139.3
[1572,]   324.5   192.5   253.0
[1573,]   188.0   118.0   145.0
[1574,]   318.0   230.0   347.3
[1575,]   195.5   129.0   161.0
[1576,]   245.0   168.0   211.0
[1577,]   198.0   130.3   168.5
[1578,]   123.0    82.3   102.0
[1579,]   103.0    70.3    86.0
[1580,]   124.0    75.3   118.0
[1581,]    98.3    66.3    83.0
[1582,]    95.0    63.3    81.0
[1583,]   107.0    66.0    94.8
[1584,]   149.0   110.8   122.0
[1585,]   124.0    71.5    85.0
[1586,]   138.0    75.0    87.5
[1587,]   126.3    98.5   105.0
[1588,]   110.0    89.5    85.0
```

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[1589,]   145.0    87.5    85.3
[1590,]   127.5   102.0   122.0
[1591,]    96.0    81.3    95.0
[1592,]   117.0    74.0   112.5
[1593,]   125.0    81.0   101.0
[1594,]   151.0   107.5   119.0
[1595,]    98.0    72.0    82.5
[1596,]   142.0    92.0   100.0
[1597,]   294.0   178.8   184.0
[1598,]   106.0    87.0    93.8
[1599,]   135.0   101.0   122.0
[1600,]    99.5    89.3    90.0
[1601,]    98.0    89.0    98.5
[1602,]   106.0    89.0    94.0
[1603,]   117.0    85.3    92.0
[1604,]   127.0    88.0   105.0
[1605,]   122.0    82.0    98.3
[1606,]   202.8   119.0   133.8
[1607,]   115.0    78.0   111.3
[1608,]   116.0    78.0    85.8
[1609,]   167.3   112.3   137.5
[1610,]   215.0   118.0   163.5
[1611,]   332.0   168.0   256.3
[1612,]   130.3    80.3   116.0
[1613,]    98.0    76.0    97.3
[1614,]   149.0   101.0   147.3
[1615,]   214.0   141.3   221.3
[1616,]   127.0    89.0   121.5
[1617,]   539.0   273.0   369.0
[1618,]   172.5   106.0   137.3
[1619,]   163.0   112.0   141.8
[1620,]   139.0    91.0   124.5
[1621,]   115.5    77.8    96.0
[1622,]   107.0    72.0    91.0
[1623,]   123.0    84.0   110.3
[1624,]   327.3   172.8   241.0
[1625,]   604.0   297.0   517.0
[1626,]   380.0   178.0   302.3
[1627,]   190.5   107.0   152.0
[1628,]   185.0   116.0   167.0
[1629,]   165.0   111.3   160.5
[1630,]   325.5   173.0   275.0
```

```
[1631,]   801.0   367.8   633.0
[1632,]   806.0   406.3   565.8
[1633,]   383.0   207.3   337.0
[1634,]   258.8   134.5   172.0
[1635,]  1591.0   554.5  1029.0
[1636,]   907.0   291.0   539.0
[1637,]   106.3    75.0   102.0
[1638,]   109.0    74.8    92.0
[1639,]   115.0    65.0    99.0
[1640,]   128.8    81.5    95.0
[1641,]   109.0    79.5    99.5
[1642,]   107.0    69.8    92.0
[1643,]   101.0    65.0    86.0
[1644,]    99.0    60.3    86.3
[1645,]   105.0    62.3    92.0
[1646,]   101.5    61.8    87.0
[1647,]    92.0    69.0    85.5
[1648,]   104.0    64.8    88.0
[1649,]   119.3    76.0    98.0
[1650,]   903.0   212.3   465.8
[1651,]  1436.0   479.0  1060.0
[1652,]  3651.5  1448.0  2834.0
[1653,]  1226.0   315.5   679.3
[1654,]   255.3   114.0   216.0
[1655,]   321.0   130.0   301.0
[1656,]   171.8    92.5   130.0
[1657,]   231.3   121.0   254.0
[1658,]   155.8    94.0   144.0
[1659,]   180.5   109.3   149.3
[1660,]    97.0    65.0    86.0
[1661,]    86.5    59.0    82.0
[1662,]   158.3   103.0   151.3
[1663,]   142.3    87.0   118.0
[1664,]   187.0   108.0   161.0
[1665,]   143.5    75.5    99.0
[1666,]   102.3    70.0    86.8
[1667,]   234.3   134.0   161.0
[1668,]   147.3    96.0   117.3
[1669,]   127.0    90.0    98.8
[1670,]   120.3    87.0   104.0
[1671,]   150.0   106.0   121.3
[1672,]   129.0    83.0   106.3
```

```
[1673,]   153.5   100.0   129.3
[1674,]   116.0    70.8   112.3
[1675,]   100.5    60.0    81.3
[1676,]   103.0    78.0    91.5
[1677,]    91.5    53.5    76.3
[1678,]   102.0    64.0    92.3
[1679,]    97.3    63.0    73.8
[1680,]   178.5   104.3   193.0
[1681,]   171.8   113.0   154.3
[1682,]   108.8    74.0    87.5
[1683,]   124.5    80.0    98.0
[1684,]   116.8    81.0    99.3
[1685,]   109.0    67.0    97.0
[1686,]   105.3    72.0    89.0
[1687,]   144.0    92.0   115.3
[1688,]   119.8    77.8    90.0
[1689,]   106.0    65.8    80.0
[1690,]   131.8    83.8    97.0
[1691,]   381.5   241.8   307.0
[1692,]   219.0   147.0   161.0
[1693,]   222.0   167.3   186.3
[1694,]   123.5    85.3   105.0
[1695,]   143.8    87.8   119.0
[1696,]   976.8   568.5   712.5
[1697,]   170.5    98.0   145.0
[1698,]  1161.5   782.3  1040.0
[1699,]   287.8   222.0   265.3
[1700,]   364.8   228.0   294.0
[1701,]   138.0    96.3   127.0
[1702,]    99.3    67.3    91.3
[1703,]   102.0    75.3    95.0
[1704,]   140.5   110.0   131.0
[1705,]   197.0   118.0   152.8
[1706,]   359.0   245.5   286.0
[1707,]   145.5    91.0   103.0
[1708,]   123.0    78.0   103.8
[1709,]   111.0    73.0    94.0
[1710,]   115.3    68.0    85.0
[1711,]   134.0    90.0   112.5
[1712,]   109.0    80.5   105.0
[1713,]   469.0   280.0   333.0
[1714,]   429.0   288.0   278.0
```

```
[1715,]   374.0   221.3   270.0
[1716,]   844.0   482.0   471.0
[1717,]  5550.0  3042.0  2849.0
[1718,]   162.0   117.3   161.3
[1719,]   181.0   112.0   182.0
[1720,]   120.0    74.0   104.0
[1721,]   162.0   105.0   141.5
[1722,]   219.0   144.0   167.0
[1723,]    99.0    70.0    93.0
[1724,]   113.0    76.5   106.8
[1725,]   244.0   155.0   172.0
[1726,]   191.5   123.0   155.0
[1727,]    93.0    86.3    93.5
[1728,]    99.0    79.0    87.0
[1729,]   104.5    77.0    81.0
[1730,]   106.0    77.8    89.3
[1731,]   145.0    98.0   134.3
[1732,]   159.8    99.0   121.3
[1733,]   126.0    83.3   106.5
[1734,]   144.0    95.0   110.0
[1735,]   371.5   208.0   282.5
[1736,]   285.0   202.3   198.3
[1737,]   682.0   434.0   509.8
[1738,]   947.5   624.0   652.5
[1739,]   405.0   236.3   312.3
[1740,]   130.0    97.0   107.3
[1741,]   148.5    91.0   111.5
[1742,]   119.0    84.5   100.3
[1743,]   308.0   174.0   197.0
[1744,]   119.5    74.0    86.8
[1745,]   113.0    65.0    87.3
[1746,]   195.0   135.8   172.5
[1747,]   142.5    96.3   116.3
[1748,]   153.0   105.8   120.3
[1749,]   130.0    86.8    97.8
[1750,]   361.8   179.5   200.3
[1751,]   224.0   134.3   186.0
[1752,]   186.0   133.3   153.0
[1753,]   165.0   104.3   147.0
[1754,]   188.8   148.0   160.5
[1755,]   478.0   322.3   311.0
[1756,]   249.0   162.8   188.0
```

```
[1757,]  1009.5   646.3   674.5
[1758,]   131.0    92.3   103.0
[1759,]   113.0    74.0    90.0
[1760,]   109.3    75.3    88.0
[1761,]   112.0    93.5    99.0
[1762,]   103.0    80.5    93.0
[1763,]   157.5   111.0   122.0
[1764,]   101.0    71.3    93.0
[1765,]   107.0    72.0    87.0
[1766,]    98.3    78.0   100.0
[1767,]    95.0    71.0    88.5
[1768,]    95.0    71.8    82.0
[1769,]    99.0    69.0    89.0
[1770,]   149.0    90.0    93.3
[1771,]   106.0    75.3    88.0
[1772,]   125.8    84.0    92.0
[1773,]   196.0   134.0   145.0
[1774,]    98.0    71.3    85.0
[1775,]   112.0    74.0    96.0
[1776,]   133.0    85.0   102.0
[1777,]    97.0    76.5   100.0
[1778,]   459.0   301.0   329.0
[1779,]   108.0    68.0    97.5
[1780,]   107.0    77.0    97.0
[1781,]   120.3    78.0    87.0
[1782,]   116.0    81.0    95.0
[1783,]    98.0    59.3    88.0
[1784,]    91.0    61.0    86.0
[1785,]   105.0    62.0    75.0
[1786,]   101.0    72.5    88.0
[1787,]   102.5    76.0   100.0
[1788,]   343.0   234.0   253.0
[1789,]   232.0   162.5   172.0
[1790,]   175.0    95.0   126.0
[1791,]   151.0    96.0   113.3
[1792,]   161.0   109.0   138.0
[1793,]   171.0   112.0   124.0
[1794,]   200.3   143.0   181.8
[1795,]   166.0   109.3   121.8
[1796,]   136.0   109.0   129.0
[1797,]   176.5   176.0   139.5
[1798,]  2735.0  1600.0  1503.5
```

```
[1799,]  2811.0  1645.0  1834.0
[1800,]  1040.5   629.0   801.8
[1801,]   185.0   171.0   159.0
[1802,]   180.0   238.0   146.3
[1803,]   144.5   170.0   120.5
[1804,]   112.0    85.3    99.0
[1805,]   155.0   101.8   114.0
[1806,]   103.5    78.8    87.8
[1807,]   112.0    74.5    98.0
[1808,]   115.0    72.3    89.8
[1809,]   105.5    71.0   102.0
[1810,]   121.0    98.0   100.5
[1811,]   427.5   253.0   302.3
[1812,]   105.8    75.3    86.8
[1813,]   148.0   105.3   120.5
[1814,]   168.8   137.3   118.3
[1815,]   396.3   268.0   344.3
[1816,]   452.5   290.3   321.8
[1817,]   466.5   311.3   340.0
[1818,]   561.3   426.8   367.0
[1819,]   358.3   255.5   260.8
[1820,]   294.8   245.0   223.0
[1821,]   961.0   594.8   645.0
[1822,]  1276.8   793.5   835.8
[1823,]   109.3    77.0    99.0
[1824,]   217.0   135.0   145.0
[1825,]   174.3   115.0   152.5
[1826,]   142.8   119.0   120.0
[1827,]   177.0   108.8   135.0
[1828,]   223.3   144.0   155.3
[1829,]   265.3   181.0   216.0
[1830,]   314.8   220.8   245.0
[1831,]   703.5   446.0   444.8
[1832,]   165.8   113.0   131.0
[1833,]   287.8   191.8   188.0
[1834,]   669.5   432.0   408.3
[1835,]   213.5   197.0   212.0
[1836,]  1927.0  1212.3  1398.0
[1837,]   383.3   278.0   324.5
[1838,]   297.5   197.0   225.0
[1839,]    97.0    74.5    87.0
[1840,]   114.5    80.0    93.8
```

```
[1841,]   105.5    83.0    91.0
[1842,]   365.3   238.3   287.0
[1843,]   887.5   586.0   584.8
[1844,]   410.3   299.0   303.0
[1845,]   376.3   269.0   255.0
[1846,]   391.3   250.0   306.0
[1847,]   122.8    86.0   106.0
[1848,]   753.3   491.5   494.0
[1849,]   149.3    99.0   123.0
[1850,]   514.5   316.0   345.0
[1851,]   461.3   296.5   388.0
[1852,]   121.8    89.0   103.0
[1853,]   141.0   103.0   114.0
[1854,]   157.0   107.3   108.0
[1855,]   102.5    75.0    84.3
[1856,]   100.3    79.0    88.0
[1857,]   425.3   315.3   340.0
[1858,]   292.5   208.0   169.3
[1859,]   112.3    76.0   101.8
[1860,]   121.0    84.8   118.8
[1861,]   106.5    73.0    95.5
[1862,]    88.5    75.3    78.0
[1863,]    95.8    64.0    86.0
[1864,]    93.5    69.0    86.3
[1865,]   127.0    83.5    91.3
[1866,]   121.0    76.5   102.0
[1867,]   192.3   140.8   148.8
[1868,]   224.0   155.8   180.0
[1869,]   437.0   258.8   226.3
[1870,]   412.0   274.3   334.0
[1871,]  3494.0  2147.5  1956.8
[1872,]   809.0   558.3   438.5
[1873,]   642.0   415.0   434.3
[1874,]   689.5   433.0   475.0
[1875,]   719.0   409.5   447.5
[1876,]  1281.0   702.8   471.5
[1877,]   323.0   228.3   291.0
[1878,]    86.0    67.5    90.0
[1879,]    95.0    71.0    76.3
[1880,]   230.8   145.3   155.0
[1881,]   301.0   200.0   192.0
[1882,]   166.0   118.0   129.0
```

```
[1883,]   141.3   113.3   108.3
[1884,]   159.0   123.0   142.0
[1885,]   280.0   203.0   224.0
[1886,]    88.0    69.5    81.3
[1887,]   119.0    98.0   101.0
[1888,]   763.0   598.0   829.0
[1889,]   120.8   101.3   122.5
[1890,]   852.0   635.0   972.0
[1891,]   892.0   597.0  1289.0
[1892,]   149.0   132.0   105.3
[1893,]   941.0   575.0  1137.0
[1894,]   131.0   103.0   109.0
[1895,]    94.8    99.3    81.5
[1896,]   597.0   385.0   413.0
[1897,]   558.0   355.0   458.0
[1898,]   206.8   143.8   162.8
[1899,]   292.0   224.0   226.0
[1900,]   626.0   484.0   512.0
[1901,]   760.3   497.0   518.3
[1902,]  1060.0   810.8  1023.0
[1903,]   633.0   505.8   539.3
[1904,]  1033.0   695.8   716.5
[1905,]   349.0   201.0   255.5
[1906,]   192.0   143.3   144.0
[1907,]   103.8    94.8   105.3
[1908,]   167.0   135.3   137.3
[1909,]   192.0   121.8   161.8
[1910,]   209.5   147.3   183.5
[1911,]   188.0   144.3   152.8
[1912,]   141.0   106.8   136.0
[1913,]   121.0    96.5   120.0
[1914,]   119.5    91.5   112.0
[1915,]   117.0    77.5    81.0
[1916,]   107.0    88.8    82.3
[1917,]   137.5   104.3   116.3
[1918,]   139.3   111.3   110.8
[1919,]   213.8   173.3   175.3
[1920,]   291.0   244.0   247.8
[1921,]   601.8   454.0   486.5
[1922,]   619.8   586.5   595.0
[1923,]  1108.3   866.0   864.3
[1924,]   719.3   563.0   474.0
```

```
[1925,]   291.3   253.8   261.0
[1926,]   137.8   172.0   127.8
[1927,]   160.0   268.0   149.0
[1928,]   601.3   504.3   516.0
[1929,]   466.0   337.0   356.5
[1930,]   989.5   781.3   742.0
[1931,]   235.0   213.0   197.0
[1932,]   542.8   396.0   391.8
[1933,]   146.3   112.3   121.0
[1934,]   158.0   123.0   133.0
[1935,]   123.3   114.0   104.3
[1936,]   124.3   125.8   110.0
[1937,]   505.8   310.0   390.0
[1938,]   154.8   118.0   124.8
[1939,]   196.8   133.3   130.0
[1940,]    93.0    76.0    88.0
[1941,]   110.3    72.0    86.5
[1942,]    93.0    68.3    87.0
[1943,]   187.8   146.0   197.0
[1944,]   109.5    77.0    78.0
[1945,]   106.5    91.5    91.0
[1946,]   347.8   215.0   236.0
[1947,]   452.5   324.0   326.0
[1948,]   122.5   101.0   110.0
[1949,]   182.3   155.0   142.0
[1950,]   165.8   152.0   120.3
[1951,]   327.8   246.5   256.0
[1952,]   111.3    91.0    80.0
[1953,]   810.5   517.0   980.0
[1954,]   134.0    99.8   101.0
[1955,]   123.0   108.0   108.0
[1956,]   134.3   116.0   104.3
[1957,]   113.0   117.3   107.0
[1958,]    97.0    89.0    79.0
[1959,]   130.5   130.3    98.0
[1960,]   645.3   509.0   971.3
[1961,]   674.8   548.0   932.0
[1962,]   725.0   489.3   912.0
[1963,]   134.3   115.3   100.0
[1964,]    88.0   198.3    88.0
[1965,]   729.3   599.3   980.5
[1966,]   120.0   158.5   103.0
```

```
[1967,]   631.3   516.8   900.8
[1968,]   724.8   531.0   885.3
[1969,]   135.0    97.3    98.5
[1970,]    89.0    73.3    80.8
[1971,]   121.0   107.3   107.8
[1972,]   617.5   499.8   879.3
[1973,]   679.0   539.3   928.3
[1974,]   716.0   498.0   956.8
[1975,]   129.8    96.0   111.5
[1976,]    98.0   125.5    80.5
[1977,]   813.0   589.0  1022.0
[1978,]   124.3   123.0   116.5
[1979,]   119.0    93.0   103.5
[1980,]   115.0    92.0    93.8
[1981,]   123.5    86.8   104.0
[1982,]    86.0   151.0    76.3
[1983,]   867.0   605.0   987.3
[1984,]   149.3   162.3   102.5
[1985,]   631.0   527.0   932.0
[1986,]   697.0   459.0   933.8
[1987,]   128.8   101.0   100.0
[1988,]   102.0    70.0    83.0
[1989,]   133.0    88.3   105.0
[1990,]   115.3    98.0    99.8
[1991,]   677.0   409.0   752.0
[1992,]   125.0    92.5   108.0
[1993,]   119.0    87.0    98.0
[1994,]    92.3   102.0    74.0
[1995,]   670.0   550.8   865.0
[1996,]   719.0   539.0  1044.5
[1997,]   728.3   509.0  1094.0
[1998,]   132.0   125.5   101.0
[1999,]   129.0   100.0    90.3
[2000,]    99.3    75.0    82.0
[2001,]    90.0   130.0    75.0
[2002,]   208.0   406.0   187.5
[2003,]   643.8   583.0   528.0
[2004,]   468.0   565.5   309.0
[2005,]  2487.0  1754.0  1808.8
[2006,]   176.8   238.0    93.0
[2007,]   811.0   586.3   985.0
[2008,]   140.0   136.0   111.0
```

```
[2009,]   124.5   136.0    99.0
[2010,]   126.0   154.5   110.0
[2011,]   843.0   619.0  1019.0
[2012,]    97.0   112.0    81.8
[2013,]   887.0   563.8  1118.0
[2014,]   145.0    94.0   106.0
[2015,]   123.3    93.0   111.8
[2016,]   132.0   101.5   110.0
[2017,]   126.0    88.0   113.0
[2018,]    98.0    78.0    84.8
[2019,]    86.0    96.0    82.0
[2020,]   598.0   467.3   458.0
[2021,]   394.8   659.5   281.8
[2022,] 12888.0  7575.3 10975.0
[2023,]   439.0   304.0   313.0
[2024,]   104.5   106.8    98.8
[2025,]   789.0   559.8   997.0
[2026,]   140.0   106.3   103.0
[2027,]   131.3    94.3   106.3
[2028,]   120.0    81.5   110.0
[2029,]   854.0   591.5   892.0
[2030,]    94.3   114.5    78.3
[2031,]   810.0   582.3  1077.3
[2032,]   126.0   117.8   120.5
[2033,]   127.0   134.3   108.5
[2034,]   118.8   118.0   116.5
[2035,]   856.0   614.5   993.8
[2036,]   102.0   127.0    73.5
[2037,]   841.5   565.0  1121.5
[2038,]   135.0   119.0   115.3
[2039,]   123.0   107.0   110.0
[2040,]   126.3   103.3   110.3
[2041,]   130.0   101.0   102.8
[2042,]    96.0    88.0    74.5
[2043,]   123.5   127.0   103.5
[2044,]   743.0   593.0  1029.8
[2045,]   874.0   609.0  1116.0
[2046,]   995.3   633.0  1166.3
[2047,]   138.0   100.0   108.5
[2048,]    90.0    74.8    76.5
[2049,]    98.0    80.0    76.0
[2050,]   123.0    96.0    93.0
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[2051,]   133.0   120.8   120.8
[2052,]   454.3   343.0   355.0
[2053,]   615.0   455.0   388.0
[2054,]   161.0   127.5   125.0
[2055,]   178.0   117.0   141.0
[2056,]   138.0   108.0   111.0
[2057,]   140.0   203.8   119.8
[2058,]  1946.5  1298.0  1323.0
[2059,]   130.0   155.0   113.0
[2060,]   148.0   133.8   105.0
[2061,]   175.0   135.0   157.5
[2062,]   215.0   189.0   238.0
[2063,]   119.0   104.5    98.0
[2064,]   113.3   109.0    91.3
[2065,]   106.0    90.0    97.0
[2066,]   198.0   173.3   172.0
[2067,]   387.3   359.0   276.0
[2068,]   516.0   802.0   398.0
[2069,]  2952.0  2708.8  3024.0
[2070,]  2994.0  2509.0  3512.0
[2071,]   460.0   475.0   369.0
[2072,]   161.0   182.5   137.0
[2073,]   111.0    94.0    79.3
[2074,]   125.3    81.0    93.0
[2075,]   154.0   123.8   119.0
[2076,]   125.0    98.0    94.3
[2077,]   106.8   144.8   100.0
[2078,]   418.8   406.5   336.0
[2079,]   432.3   487.8   334.5
[2080,]  1403.5  1005.8   965.0
[2081,]   324.8   251.8   274.0
[2082,]   131.5   139.0   110.8
[2083,]   383.0   603.3   316.0
[2084,]  3144.8  2870.3  2425.0
[2085,]  6097.3  4131.5  4836.8
[2086,]   887.0   738.3   875.0
[2087,]   810.5   718.5   589.0
[2088,]   312.0   268.3   276.3
[2089,]   138.5   147.8   108.0
[2090,]   989.3   701.5   930.0
[2091,]   147.0   137.3   129.5
[2092,]   275.5   233.5   213.0
```

```
[2093,]   345.5   256.3   319.0
[2094,]   690.0   494.3   503.8
[2095,]   134.0    84.0   118.8
[2096,]   115.3    75.5   105.3
[2097,]   165.0   146.0   129.0
[2098,]   441.5   389.0   370.0
[2099,]   428.3   346.5   398.3
[2100,]   651.8   527.0   508.5
[2101,]   679.8   478.0   458.8
[2102,]    92.8    81.0    91.0
[2103,]    81.0    66.0    75.3
[2104,]    95.3    65.5    73.3
[2105,]    91.3    70.0    78.3
[2106,]    84.3    96.0    67.3
[2107,]   787.8   619.5   790.0
[2108,]   215.5   224.0   187.3
[2109,]   168.8   208.0   150.5
[2110,]   189.5   398.8   170.3
[2111,]   664.0  1183.0   668.5
[2112,]  2046.5  2516.0  1745.8
[2113,]  1431.5  1334.0  1043.3
[2114,]   518.3   532.0   504.0
[2115,]   163.5   168.0   139.0
[2116,]   353.3   346.5   297.8
[2117,]   141.0   109.0   113.0
[2118,]   400.0   324.0   295.0
[2119,]   235.5   188.8   243.0
[2120,]   193.8   148.0   170.0
[2121,]   168.3   184.0   166.0
[2122,]   508.3   399.3   395.0
[2123,]   516.0   460.0   478.0
[2124,]  1606.8  1276.0  1255.0
[2125,]  1202.5   990.5  1296.8
[2126,]   115.3   120.0   104.0
[2127,]   106.3    84.0    95.0
[2128,]   122.0    83.5   106.0
[2129,]   124.5   113.0    96.0
[2130,]   131.8   435.0   129.0
[2131,]  7693.0  5462.3  7214.8
[2132,]   198.8   211.0   213.0
[2133,]   168.0   109.5   121.0
[2134,]   390.0   316.5   347.5
```

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[2135,]   268.3   238.3   223.0
[2136,]   808.0   555.8   581.0
[2137,]   379.0   299.5   319.5
[2138,]   333.5   249.0   272.0
[2139,]   153.0   163.5   126.0
[2140,]   144.0   107.5   121.5
[2141,]   114.0    99.3    92.0
[2142,]   148.0   119.0   166.0
[2143,]   134.0   114.5   128.5
[2144,]   118.5   144.3   101.0
[2145,]   244.0   215.3   224.0
[2146,]   110.0    92.0   111.3
[2147,]   154.3   133.8   135.0
[2148,]   119.0    87.5   105.0
[2149,]   197.0   164.8   154.0
[2150,]   807.5   557.8   616.0
[2151,]   371.0   288.3   388.0
[2152,]   120.0    85.0   101.0
[2153,]   119.0    73.0    94.0
[2154,]   101.3    70.0    81.0
[2155,]   107.0    80.5    93.3
[2156,]   229.0   190.0   176.0
[2157,]   153.5   122.0   134.5
[2158,]   106.0    73.3    88.5
[2159,]   105.0    74.0    88.3
[2160,]   283.0   253.0   295.0
[2161,]   287.0   225.8   258.5
[2162,]   172.0   115.0   160.8
[2163,]   230.5   168.0   210.5
[2164,]   149.0   119.0   119.3
[2165,]   151.0   123.0   138.0
[2166,]   145.5   122.5   141.0
[2167,]   107.0    75.0    88.8
[2168,]   148.0   108.0   137.3
[2169,]   105.0    62.0    90.0
[2170,]   123.0    78.0   109.0
[2171,]   126.0    87.0   102.3
[2172,]   146.8   106.0   134.3
[2173,]   153.0   121.0   128.3
[2174,]   142.0    86.0   112.3
[2175,]   165.3   117.3   119.3
[2176,]   154.0   128.0   152.8
```

```
[2177,]   149.0   117.0   120.0
[2178,]   254.3   170.3   209.3
[2179,]   443.0   313.0   355.0
[2180,]   259.0   206.0   225.0
[2181,]   269.8   182.3   261.0
[2182,]   123.0    90.0   106.0
[2183,]   103.0    71.0    81.8
[2184,]   362.8   295.8   322.0
[2185,]   120.0    76.0   112.0
[2186,]   117.0    77.0    85.0
[2187,]   100.0    62.8    83.0
[2188,]   104.0    71.0    81.0
[2189,]    94.0    67.0    89.3
[2190,]   130.0    98.0   119.0
[2191,]   100.0    65.0    92.0
[2192,]   151.0    89.3   117.5
[2193,]   112.0    70.0    97.0
[2194,]   409.0   269.3   332.0
[2195,]   191.0   120.3   183.3
[2196,]   189.0   140.0   197.0
[2197,]   178.3   127.0   151.0
[2198,]   143.0    89.8   111.8
[2199,]   123.0    82.0   109.0
[2200,]   163.8   120.0   141.0
[2201,]   227.0   187.5   176.0
[2202,]  7449.0  4948.0  6265.0
[2203,]  2297.0  1600.0  1602.0
[2204,]   207.0   160.3   170.3
[2205,]   123.0    99.5   126.0
[2206,]   163.0   128.3   130.0
[2207,]   191.0   151.0   155.0
[2208,]   394.0   326.3   379.5
[2209,]   502.0   357.3   428.0
[2210,]   233.0   161.8   223.0
[2211,]   276.0   222.0   267.3
[2212,]   272.3   222.0   257.0
[2213,]   212.0   161.0   172.0
[2214,]  2267.0  1549.3  1800.8
[2215,]  3104.3  1910.0  2313.0
[2216,]   295.0   187.0   228.0
[2217,]   132.0    99.0   112.3
[2218,]   124.3    85.0   105.0
```

```
[2219,]   292.0   186.0   222.0
[2220,]   173.0   100.3   148.5
[2221,]   123.5    68.0    93.0
[2222,]   100.0    73.3    86.3
[2223,]   870.0   512.0   552.0
[2224,]   108.0    76.0   107.8
[2225,]    94.0    77.0   100.8
[2226,]   103.0    67.0    95.3
[2227,]   103.3    70.0    84.3
[2228,]   106.0    79.3    97.8
[2229,]   239.0   163.0   175.3
[2230,]   112.0    89.0   101.0
[2231,]   154.0   136.0   133.3
[2232,]   176.0   119.0   153.8
[2233,]   101.0    65.0    82.0
[2234,]    90.8    72.0    75.5
[2235,]   321.0   222.0   265.3
[2236,]   173.0   130.0   126.0
[2237,]   195.3   145.0   166.8
[2238,]   110.3    88.0    82.0
[2239,]   123.0    86.0   102.5
[2240,]   122.5   111.8    97.5
[2241,]   974.0   766.0  1192.3
[2242,]   885.3   656.0  1300.5
[2243,]    90.3    88.3    81.0
[2244,]   280.3   153.0   201.3
[2245,]   102.3    80.0    82.0
[2246,]   113.0    81.0    91.0
[2247,]   138.5    94.0   124.0
[2248,]    90.5    66.0    87.0
[2249,]   125.3    87.0   102.0
[2250,]   348.3   173.5   293.5
[2251,]   104.0    67.5    90.0
[2252,]    96.8    65.3    93.0
[2253,]   183.5   114.0   159.8
[2254,]   450.0   269.3   397.0
[2255,]   323.8   189.3   269.0
[2256,]   434.8   220.0   409.0
[2257,]   898.8   471.3   547.0
[2258,]   558.0   299.8   493.0
[2259,]   400.0   235.8   459.0
[2260,]   143.8    83.8   139.3
```

```
[2261,]   157.3   113.3   134.0
[2262,]   113.3    82.0    93.0
[2263,]   126.3    85.5   116.0
[2264,]   222.0   136.8   214.0
[2265,]   172.8   129.3   156.0
[2266,]  1010.5   471.3   786.8
[2267,]   703.0   432.3   686.0
[2268,]   304.8   188.8   283.0
[2269,]   240.5   177.0   217.0
[2270,]   561.3   339.5   483.0
[2271,]   326.5   230.0   297.0
[2272,]   112.0    94.0   102.8
[2273,]   101.3    77.8    90.0
[2274,]   107.5    86.0    91.0
[2275,]   237.5   127.0   196.0
[2276,]   106.3    78.3   102.0
[2277,]   174.0   111.0   151.0
[2278,]   182.5   106.3   139.8
[2279,]   138.5    93.0   123.0
[2280,]   122.5    80.0   113.0
[2281,]    93.8    67.3    84.5
[2282,]   473.3   122.0   326.0
[2283,]   113.5    75.0    93.0
[2284,]   122.3    77.5   108.3
[2285,]  1262.5   442.0  1029.5
[2286,]  1489.5   473.0  1134.3
[2287,]   122.0    78.0    84.8
[2288,]    96.3    70.0   101.5
[2289,]   109.3    69.0    97.3
[2290,]   110.5    76.5    96.0
[2291,]   572.0   187.0   457.0
[2292,]  1868.3   629.0  1389.8
[2293,]   833.0   346.8   661.0
[2294,]   379.0   163.0   355.0
[2295,]  8020.8  2116.0  6364.0
[2296,]  1857.0   546.0  1777.0
[2297,]   235.0    96.0   217.8
[2298,]   204.0    97.0   194.5
[2299,]   118.0    75.8   104.3
[2300,]   107.0    80.0    99.8
[2301,]   104.5    68.0    87.5
[2302,]   124.0    81.0   112.5
```

```
[2303,]   667.0   332.0   554.5
[2304,]   726.0   340.0   682.3
[2305,]   116.0    78.0    82.3
[2306,]   104.0    71.0    92.3
[2307,]   105.3    75.0    92.0
[2308,]   250.0   161.3   210.0
[2309,]   102.0    78.8    98.3
[2310,]   429.8   234.8   353.0
[2311,]   490.0   303.5   494.0
[2312,]   286.0   219.0   306.8
[2313,]   162.0   109.8   134.0
[2314,]   576.8   337.8   368.0
[2315,]    77.0    59.3    75.8
[2316,]    88.0    54.0    75.0
[2317,]    84.3    60.0    67.0
[2318,]    88.0    75.3    75.5
[2319,]    91.0    69.8    86.0
[2320,]   187.5   129.5   190.0
[2321,]    99.0    69.3    76.3
[2322,]    99.0    79.5    93.0
[2323,]   106.8    66.5    81.0
[2324,]   118.0    83.5   100.0
[2325,]   120.0    83.3    91.0
[2326,]   104.8    83.3    89.0
[2327,]   208.0   140.0   163.0
[2328,]  1798.0  1146.0  1359.0
[2329,]   916.3   760.3  1388.0
[2330,]   882.0   828.0  1750.0
[2331,]   264.0   183.0   210.0
[2332,]   183.5   128.3   153.0
[2333,]   168.0   119.0   178.5
[2334,]   107.0    72.0    89.0
[2335,]   107.3    74.3    96.0
[2336,]   421.0   285.0   349.5
[2337,]   243.0   148.0   156.0
[2338,]   299.5   188.0   239.0
[2339,]   134.0    88.0   108.3
[2340,]   366.0   257.5   245.0
[2341,]   305.8   180.0   190.0
[2342,]   235.0   153.0   211.3
[2343,]   110.0    69.3    83.0
[2344,]   313.8   200.0   192.0
```

```
[2345,]   184.0   136.0   141.0
[2346,]   103.0    73.3    95.0
[2347,]   107.8    72.0    87.0
[2348,]   132.0    89.0    98.8
[2349,]   148.0    99.3   119.0
[2350,]   246.5   172.0   194.5
[2351,]   908.0   579.0   702.8
[2352,]   764.0   647.8   801.8
[2353,]  1119.0   782.0   850.3
[2354,]   383.0   245.0   284.5
[2355,]  8009.0  5086.0  6547.5
[2356,]   135.0    97.0   130.3
[2357,]   135.3    97.0   120.3
[2358,]   113.0    85.5    97.3
[2359,]   232.0   164.0   181.0
[2360,]   108.0    80.0    90.0
[2361,]   139.0   107.8   117.0
[2362,]    94.0    66.0    80.0
[2363,]   125.8    89.0   102.5
[2364,]    91.0    69.3    74.3
[2365,]    97.0    70.0    90.3
[2366,]  1331.8  1201.5  1906.3
[2367,]    97.0    82.3    86.5
[2368,]   118.0    91.3   104.0
[2369,]   142.3    99.8   116.5
[2370,]   147.0   107.0   119.3
[2371,]   113.0    76.0    88.0
[2372,]   111.5    73.3    93.0
[2373,]   165.0   123.8   144.3
[2374,]   757.0   557.0   501.0
[2375,]   877.3   635.0   724.0
[2376,]   125.0    90.5    91.3
[2377,]    94.0    73.3    87.0
[2378,]   562.3   484.0   481.0
[2379,]   140.0   104.5   113.3
[2380,]   373.0   292.5   252.0
[2381,]   154.5   119.0   154.0
[2382,]   159.0   118.3   123.3
[2383,]   631.0   455.8   482.0
[2384,]   126.5    90.0   103.0
[2385,]   404.0   317.5   257.3
[2386,]    91.0    72.0    86.0
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[2387,]   101.8    81.0    82.0
[2388,]   457.0   329.5   359.5
[2389,]   590.0   491.0   532.0
[2390,]  1029.5   722.0  1093.0
[2391,]   783.0   537.3   845.5
[2392,]   254.0   197.0   201.0
[2393,]  6672.0  4400.0  5302.0
[2394,]   144.3   116.8   147.0
[2395,]   172.0   148.0   154.0
[2396,]  1096.0   763.3   843.0
[2397,]  2705.8  1934.0  2371.3
[2398,]  1144.3   800.0   994.0
[2399,]   850.8   605.0   775.0
[2400,]   809.5   657.0   802.3
[2401,]  2206.3  1447.0  1902.0
[2402,]   152.5   101.3   145.0
[2403,]   220.3   162.0   149.0
[2404,]   150.0   115.0   109.0
[2405,]   105.5    69.0    84.0
[2406,]    88.0    64.0    82.0
[2407,]    88.5    72.0    78.5
[2408,]   241.5   170.3   261.0
[2409,]   362.5   300.0   348.0
[2410,]  1461.5  1026.0  1121.8
[2411,]  1016.3   803.8   950.0
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[2414,]   337.0   305.0   322.3
[2415,]   385.8   369.0   316.8
[2416,]   174.8   159.0   164.3
[2417,]   695.5   524.8   547.0
[2418,]   478.0   389.0   456.5
[2419,]  1124.3   822.0   967.5
[2420,]   117.3    83.3   112.3
[2421,]   128.8    93.0   106.0
[2422,]   292.8   209.0   240.3
[2423,]   157.3   106.0   136.3
[2424,]   106.8    79.8    84.8
[2425,]    98.5    75.0    85.5
[2426,]   125.0    94.3    99.3
[2427,]   100.5    95.8    85.0
[2428,]   411.3   263.8   341.3
```

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[2429,]   217.5   142.5   182.3
[2430,]   152.0   129.0   146.3
[2431,]   151.3   126.8   151.8
[2432,]   416.5   295.5   394.8
[2433,]   156.8   116.0   133.3
[2434,]   139.0   140.0   139.0
[2435,]   227.8   172.5   237.0
[2436,]   145.8   107.8   129.0
[2437,]   199.0   147.5   166.0
[2438,]   277.5   209.3   212.0
[2439,]   224.0   192.3   204.0
[2440,]   435.3   290.8   304.8
[2441,]   577.5   401.8   463.0
[2442,]  6949.5  4788.5  5170.0
[2443,]    91.3    88.3   105.0
[2444,]   247.5   180.5   218.0
[2445,]   178.0   139.0   189.0
[2446,]   120.5    93.0   120.8
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[2448,]   120.8    91.0   101.0
[2449,]    97.0    80.0    91.3
[2450,]   145.0   119.8   126.0
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[2452,]   140.8   141.0   151.0
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[2454,]   202.0   130.0   162.0
[2455,]   119.5    83.0    89.0
[2456,]   108.0    84.0    96.3
[2457,]   110.0   101.0    95.0
[2458,]   141.8   143.0   114.0
[2459,]   963.0   700.0   687.5
[2460,]   934.0   572.0   673.0
[2461,]   251.5   150.8   190.0
[2462,]   110.0    88.0    98.3
[2463,]   112.0    91.0    93.0
[2464,]   122.5   107.5    96.0
[2465,]   599.0   458.0   488.8
[2466,]   203.0   169.0   171.0
[2467,]   185.0   126.0   166.0
[2468,]   164.0   159.0   130.3
[2469,]   315.0   236.0   248.0
[2470,]   188.0   150.0   161.0
```

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[2471,]   189.0   145.0   151.3
[2472,]   910.0   665.0   810.0
[2473,]  3713.0  2601.8  3184.0
[2474,]   483.5   360.0   347.0
[2475,]   624.0   421.0   474.0
[2476,]   243.0   187.8   198.0
[2477,]   225.0   185.0   182.3
[2478,]   233.0   170.0   197.0
[2479,]   127.0    93.0   101.5
[2480,]   131.3    96.0   126.5
[2481,]   153.0   106.0   116.8
[2482,]   226.0   175.3   189.0
[2483,]   119.0    93.8   103.0
[2484,]   106.0    72.3    86.5
[2485,]   216.0   139.5   142.3
[2486,]  2260.5  1367.3  1473.8
[2487,]   528.0   339.3   449.5
[2488,]   399.0   265.5   327.5
[2489,]   419.0   286.0   338.8
[2490,]   633.0   450.0   522.8
[2491,]   291.0   209.0   236.0
[2492,]   418.5   323.5   411.5
[2493,]   236.0   190.8   211.8
[2494,]   199.0   141.5   201.3
[2495,]   170.8   116.3   146.3
[2496,]   145.0    93.3   103.0
[2497,]   362.0   252.5   228.0
[2498,]   884.8   637.0   740.3
[2499,]   217.0   127.8   159.0
[2500,]   216.0   140.0   166.0
[2501,]   238.5   177.5   187.0
[2502,]    95.0    78.0    88.3
[2503,]    83.0    65.8    82.0
[2504,]   265.0   212.0   221.0
[2505,]   560.0   401.0   405.0
[2506,]   262.0   182.5   225.0
[2507,]   249.0   167.0   155.0
[2508,]   145.0   108.0   117.5
[2509,]   105.0    88.3   109.0
[2510,]   168.8   125.0   118.0
[2511,]   174.0   127.5   118.5
[2512,]   848.0   526.0   465.0
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[2516,]   311.0   221.0   248.0
[2517,]   829.5   553.8   709.3
[2518,]   313.0   236.0   209.0
[2519,]   218.0   173.0   171.0
[2520,]   173.0   126.3   139.0
[2521,]   916.0   700.0   595.0
[2522,]   637.0   508.0   555.0
[2523,]   153.3   113.5   125.0
[2524,]   110.0    82.0    97.0
[2525,]   132.0    96.0   109.0
[2526,]    91.5    62.0    89.3
[2527,]   871.0   593.0   920.0
[2528,]   120.0    99.0   110.0
[2529,]   809.8   631.0  1024.3
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[2534,]    91.0   120.8    82.3
[2535,]   102.0   143.3   107.0
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[2537,]   191.8   124.3   134.5
[2538,]   149.8    98.5   123.3
[2539,]   253.5   160.8   162.3
[2540,]   267.5   194.0   196.0
[2541,]   257.0   208.0   225.3
[2542,]   427.0   335.0   344.0
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[2548,]   198.0   122.0   182.0
[2549,]   157.5    95.0   136.0
[2550,]   161.0   114.0   133.0
[2551,]   201.8   163.0   183.5
[2552,]   186.5   146.0   145.0
[2553,]   124.0   108.3   104.0
[2554,]   152.0   127.0   127.3
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[2555,]   106.3   102.0    93.0
[2556,]    91.3   106.0   104.0
[2557,]   136.3   134.0   112.3
[2558,]   142.0   167.0   119.0
[2559,]   202.0   266.8   167.0
[2560,]   289.8   318.0   258.5
[2561,]   513.0   407.0   476.0
[2562,]   312.0   329.3   260.0
[2563,]   558.5   477.0   466.0
[2564,]   306.0   244.0   248.0
[2565,]   201.0   188.3   203.0
[2566,]   183.5   208.0   167.8
[2567,]   301.0   325.0   256.0
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[2569,]   319.0   251.0   279.0
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[2571,]   131.0   103.5   111.0
[2572,]   175.3   129.0   146.5
[2573,]   130.0   138.8   119.0
[2574,]   189.0   155.0   173.0
[2575,]   159.3   162.0   152.8
[2576,]   138.0   165.5   139.0
[2577,]   569.0   344.0   419.0
[2578,]   135.5    98.0   108.5
[2579,]   151.0   113.3   148.0
[2580,]   118.0    81.3   101.0
[2581,]   108.5    78.3    95.3
[2582,]   108.0    78.3    93.0
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[2585,]   110.0    84.3    95.3
[2586,]   200.0   152.5   149.5
[2587,]   232.0   166.8   165.3
[2588,]   143.0   107.0   109.5
[2589,]   164.0   131.3   134.3
[2590,]   196.0   159.0   130.3
[2591,]   279.0   171.5   171.8
[2592,]   101.0    92.3    90.3
[2593,]   863.0   517.3  1092.0
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[2595,]   135.0   129.3   125.5
[2596,]   681.0   550.0   881.8
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[2599,]   839.0   575.0  1206.0
[2600,]   139.3   171.0   125.5
[2601,]   127.0   162.0   104.5
[2602,]   134.0   151.0   104.5
[2603,]   825.3   541.5  1081.5
[2604,]    95.0   159.0    78.3
[2605,]   834.0   600.0  1142.0
[2606,]   789.5   548.5  1184.5
[2607,]   125.0   134.0   100.0
[2608,]   128.0   136.0   105.0
[2609,]   855.3   589.0  1035.5
[2610,]   101.0   100.0    78.0
[2611,]   863.0   535.0  1083.0
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[2618,]   129.0   127.3   107.5
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[2631,]   124.0    98.0   103.0
[2632,]   131.0    94.3   101.0
[2633,]   121.0   104.0    91.3
[2634,]    86.5    86.0    77.0
[2635,]   920.0   588.5  1111.0
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[2637,]   124.3   155.0   102.0
[2638,]   673.0   537.0   881.0
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[2642,]   301.0   501.8   270.0
[2643,]   850.8   625.3   600.0
[2644,]   385.0   348.0   252.0
[2645,]  1327.0   793.5  3034.5
[2646,]   133.8   194.8    82.0
[2647,]   831.0   577.8  1028.0
[2648,]   745.0   537.8   904.8
[2649,]   683.3   538.5   982.8
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[2651,]   943.0   618.8  1067.8
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[2671,]   142.3   102.3   109.0
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[2680,]   813.3   562.0  1060.0
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[2689,]    98.0    78.0    76.0
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[2710,]  2539.5  1874.0  2493.8
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[2714,]   116.3    86.0   105.8
[2715,]   104.0    95.0    93.0
[2716,]   135.3   123.0   126.5
[2717,]   135.5   155.0   129.3
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[2720,]   729.3   429.0   465.5
[2721,]   214.0   158.8   171.3
[2722,]   152.0   180.0   118.8
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[2732,]   234.5   204.0   210.3
[2733,]   255.0   198.5   244.0
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[2754,]   221.5   258.5   218.0
[2755,]   264.0   267.5   238.0
[2756,]   127.0   163.3   145.0
[2757,]   119.3   130.5   117.0
[2758,]   225.0   166.8   173.0
[2759,]   136.0   101.3   134.3
[2760,]   200.0   134.5   158.0
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[2763,]   666.0   426.0   557.0
[2764,]   357.0   206.0   192.0
```

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[2769,]   111.3   121.3    99.0
[2770,]   143.0   272.0   107.0
[2771,]  3153.0  1946.8  2313.3
[2772,]   290.8   263.8   257.0
[2773,]   161.0   113.0   140.0
[2774,]   164.0   127.0   133.0
[2775,]   172.0   150.0   150.0
[2776,]   617.0   385.0   495.5
[2777,]   242.0   196.5   180.8
[2778,]   603.0   388.0   480.0
[2779,]   126.0   106.0   106.5
[2780,]   105.0    95.3   100.3
[2781,]   123.3   111.0   111.3
[2782,]   203.0   167.0   214.3
[2783,]   128.0   101.5   116.0
[2784,]   135.8   124.0   113.5
[2785,]   171.0   125.0   125.5
[2786,]   112.0   103.5    96.0
[2787,]   115.3    97.0   100.0
[2788,]   114.0    88.0   110.8
[2789,]   131.0    96.0   116.8
[2790,]   216.3   163.0   173.5
[2791,]   300.0   220.0   279.5
[2792,]   125.0    88.5   122.8
[2793,]   107.0    81.0    95.3
[2794,]   110.3    72.0    85.5
[2795,]   117.0    67.0    89.5
[2796,]   125.0    81.0    90.3
[2797,]   104.5    70.0    92.0
[2798,]   113.0    83.3    96.0
[2799,]   119.0    77.0    86.5
[2800,]   117.8    87.0   112.0
[2801,]   134.0    95.3   121.0
[2802,]   170.0   135.0   183.5
[2803,]   230.0   154.0   201.0
[2804,]   114.0    95.3   113.0
[2805,]   130.0   106.0   144.0
[2806,]   322.3   247.0   284.0
```

```
[2807,]   114.0    82.0    92.0
[2808,]   110.0    81.0    97.5
[2809,]   113.3    80.5    99.0
[2810,]   118.0    83.0   112.0
[2811,]   108.0    77.0    84.5
[2812,]   128.0    71.3    91.0
[2813,]   120.0    83.3    99.0
[2814,]   132.0    74.5    87.5
[2815,]   138.3   107.8   102.0
[2816,]   225.0   177.5   189.0
[2817,]   268.0   192.3   220.0
[2818,]   401.3   254.8   331.0
[2819,]   201.0   115.0   160.0
[2820,]   524.0   339.8   420.8
[2821,]   253.0   121.8   212.0
[2822,]   115.0    76.3   101.0
[2823,]   112.0    73.3    98.3
[2824,]   186.5   144.5   192.0
[2825,]   151.0   106.3   152.0
[2826,]   116.3    69.3    91.5
[2827,]    94.0    66.3    82.0
[2828,]   114.0    70.3    79.0
[2829,]   104.0    71.5    89.5
[2830,]   112.3    80.0   100.0
[2831,]    91.8    77.3    93.0
[2832,]   163.5   102.0   127.0
[2833,]   140.8    75.0   106.0
[2834,]   435.5   254.0   401.0
[2835,]   144.3    90.0   122.0
[2836,]   126.3    84.0   120.0
[2837,]   167.5   114.0   155.0
[2838,]   146.5    92.0   144.3
[2839,]   107.3    85.3   110.0
[2840,]   268.0   190.0   221.5
[2841,]   196.3   148.0   160.8
[2842,]  2748.0  1757.3  2050.3
[2843,]   436.3   311.0   293.8
[2844,]   155.8   103.0   129.5
[2845,]   156.0   107.0   150.5
[2846,]   207.3   182.0   210.5
[2847,]   264.0   163.0   216.5
[2848,]   654.8   409.0   511.0
```

```
[2849,]   769.8   486.0   619.8
[2850,]   168.3   113.0   140.3
[2851,]   152.3   117.8   137.3
[2852,]   181.8   149.0   141.3
[2853,]   306.0   218.0   221.0
[2854,]  1206.8   791.0   858.0
[2855,]  1333.5   830.0   918.0
[2856,]   423.0   141.0   184.0
[2857,]   146.3    85.8   110.8
[2858,]   122.8    81.0    96.3
[2859,]   136.5    79.0    98.5
[2860,]   153.0   104.3   140.5
[2861,]   117.8    72.0    95.0
[2862,]   123.3    80.3    97.0
[2863,]   235.3   166.0   175.3
[2864,]   108.0    63.0    88.0
[2865,]   109.3    70.0    86.0
[2866,]   114.3    71.0    86.8
[2867,]   103.5    64.0    75.0
[2868,]   106.5    70.5    89.0
[2869,]   267.0   181.0   227.3
[2870,]   108.8    91.0   108.0
[2871,]   228.0   164.0   191.0
[2872,]   177.3   117.8   162.0
[2873,]   111.8    78.5   102.0
[2874,]    89.3    74.3    89.0
[2875,]   144.5    92.5   122.8
[2876,]   183.0   121.0   118.0
[2877,]   147.3   116.0   123.0
[2878,]   119.0    82.3   100.8
[2879,]    92.0    66.8    88.0
[2880,]   112.3    75.8    95.0
[2881,]   151.0   114.5   152.8
[2882,]   131.0    89.5   125.0
[2883,]   109.0    75.8    84.0
[2884,]   143.0    79.5   100.8
[2885,]   105.0    84.0    81.0
[2886,]   109.5    92.3    99.0
[2887,]   124.0    82.3    88.8
[2888,]   104.0    74.3   107.0
[2889,]   116.5    79.8    98.0
[2890,]   103.0    72.0    88.8
```

```
[2891,]   101.0    68.0    77.0
[2892,]   102.3    73.3    87.0
[2893,]   127.0    83.0   104.5
[2894,]   898.0   412.0   641.0
[2895,]   457.0   221.5   305.0
[2896,]   907.0   364.0   593.0
[2897,]   714.0   375.0   516.0
[2898,]   239.0   128.8   219.0
[2899,]   156.0   104.0   158.0
[2900,]   111.0    82.0    94.0
[2901,]   125.5    76.0   113.0
[2902,]   114.0    86.0   113.0
[2903,]   118.0    79.0   110.0
[2904,]   182.8   118.0   173.0
[2905,]   149.0   121.0   118.0
[2906,]   384.0   188.0   242.0
[2907,]  1307.8   639.8  1005.8
[2908,]   258.0   133.0   184.5
[2909,]   185.0   131.0   165.3
[2910,]   491.8   312.0   368.5
[2911,]   391.0   235.0   352.5
[2912,]   110.0    84.0   105.5
[2913,]    93.0    78.5    92.5
[2914,]    95.8    84.0    88.8
[2915,]   145.0    81.0   112.3
[2916,]    98.0    68.3    90.3
[2917,]   258.0   137.0   193.0
[2918,]   157.0    83.0   129.5
[2919,]   125.0    83.8   106.3
[2920,]   107.0    79.0    87.5
[2921,]    92.0    71.3    97.5
[2922,]   131.0    77.0   115.0
[2923,]   118.0    78.0    99.0
[2924,]   109.0    91.0   104.5
[2925,]   305.0   127.0   209.0
[2926,]   244.0   114.0   246.0
[2927,]   105.0    65.8   102.0
[2928,]   106.0    71.0    92.0
[2929,]   101.3    67.3    93.0
[2930,]   108.0    80.5    92.3
[2931,]   151.0    92.5   121.0
[2932,]   979.5   358.0   620.0
```

```
[2933,]   514.0   235.0   388.0
[2934,]   293.0   131.8   304.0
[2935,]  1993.5   389.5  1148.0
[2936,]   281.0   106.5   244.0
[2937,]   127.0    78.5   123.0
[2938,]   100.8    68.3    85.0
[2939,]   119.0    71.3    85.5
[2940,]    99.0    68.3    88.0
[2941,]   103.0    68.5    91.0
[2942,]   104.0    79.5    92.8
[2943,]   213.0   102.8   147.0
[2944,]   296.3   128.3   232.0
[2945,]   113.0    70.3    93.0
[2946,]   109.0    76.3    95.5
[2947,]   119.8    93.0   110.0
[2948,]   169.0    96.0   152.0
[2949,]   127.0    81.0   120.3
[2950,]   234.0   145.0   202.0
[2951,]   286.0   204.8   276.0
[2952,]   218.0   166.0   244.8
[2953,]   105.0    83.0   100.0
[2954,]   218.0   129.3   142.0
[2955,]    95.0    71.0    94.8
[2956,]    80.0    62.0    84.0
[2957,]    81.5    59.5    87.0
[2958,]    82.0    72.0    82.0
[2959,]    91.0   103.0    92.0
[2960,]   173.8   137.3   157.0
[2961,]   113.0    75.0    91.8
[2962,]   102.0    77.0    89.0
[2963,]   100.3    66.5    98.0
[2964,]   106.0    77.0    89.3
[2965,]   114.0    79.0    99.0
[2966,]   110.5    69.3    86.0
[2967,]   118.0    81.0    88.5
[2968,]   575.0   365.0   500.5
[2969,]   197.3   166.3   233.3
[2970,]   168.0   132.0   197.3
[2971,]   319.0   180.0   223.8
[2972,]   190.5   136.0   158.0
[2973,]   155.0   111.0   136.3
[2974,]    98.0    76.0   103.0
```

```
[2975,]    94.8    72.5    82.3
[2976,]   189.0   115.0   167.8
[2977,]   153.0    84.0   109.5
[2978,]   189.3   115.5   161.3
[2979,]   114.0    68.0    84.0
[2980,]   165.0   127.8   123.5
[2981,]   172.0   108.0   139.0
[2982,]   139.0   100.0   106.0
[2983,]    99.0    71.3    83.3
[2984,]   126.5    74.0    91.3
[2985,]   123.3    76.0    80.5
[2986,]   103.0    67.3    85.8
[2987,]    96.0    70.5    83.5
[2988,]   121.0    80.3   103.5
[2989,]   108.5    79.3    89.0
[2990,]   172.3   117.5   149.0
[2991,]  1672.0   997.8  1138.3
[2992,]   113.3    75.3   109.0
[2993,]   468.3   306.5   330.0
[2994,]   167.5   107.3   141.0
[2995,]  2741.0  1777.5  1860.8
[2996,]   165.0   106.5   120.0
[2997,]   104.5    74.3    89.0
[2998,]   116.0    86.3    96.3
[2999,]   135.0   103.8   101.0
[3000,]    94.8    68.3    87.0
[3001,]    92.3    71.8    84.0
[3002,]    99.0    59.8    85.0
[3003,]   107.3    69.3    86.0
[3004,]    92.5    62.0    76.5
[3005,]   102.5    68.5    93.0
[3006,]   164.0   137.0   141.0
[3007,]   106.3    77.3    82.8
[3008,]   107.0    73.0    80.0
[3009,]   162.5    90.0   133.0
[3010,]   121.3    88.0   102.3
[3011,]    87.5    63.0    84.0
[3012,]   164.3   106.0   116.0
[3013,]   289.3   169.5   225.8
[3014,]   276.8   188.0   185.0
[3015,]   255.8   187.0   233.0
[3016,]   110.0    71.3    86.0
```

```
[3017,]    99.3    76.0    81.0
[3018,]   111.0    76.0   103.0
[3019,]    93.3    75.3    84.3
[3020,]   142.5    99.0    96.0
[3021,]   123.0    82.0   108.0
[3022,]   131.5    90.8    96.3
[3023,]   224.3   167.0   191.0
[3024,]   118.3    76.0    83.0
[3025,]    96.0    84.8    80.0
[3026,]    94.5    74.0    84.0
[3027,]   115.3    77.0    86.0
[3028,]   540.3   356.5   385.8
[3029,]   478.3   368.0   387.0
[3030,]   752.0   549.0   710.0
[3031,]   603.0   394.0   560.5
[3032,]   112.3    89.0    98.5
[3033,]   912.8   590.0   614.5
[3034,]   176.3   134.5   136.8
[3035,]   223.3   161.0   218.8
[3036,]  1325.8   866.0   922.0
[3037,]  3670.3  2341.3  2696.3
[3038,]   657.0   401.0   388.3
[3039,]   579.0   400.0   474.5
[3040,]  1597.5  1074.0  1268.3
[3041,]  3418.0  2177.0  2676.3
[3042,]   209.0   116.8   183.8
[3043,]   156.0    95.0   106.5
[3044,]   135.0    97.0   107.0
[3045,]    87.0    69.0    87.8
[3046,]    96.0    67.3    77.3
[3047,]    99.0    77.8    78.5
[3048,]   249.0   190.8   256.0
[3049,]   189.8   117.3   172.0
[3050,]   573.0   409.3   378.5
[3051,]   720.0   535.8   635.8
[3052,]   222.8   152.3   234.8
[3053,]   391.0   271.3   380.3
[3054,]   155.0    91.3   110.0
[3055,]   127.3    86.3    91.0
[3056,]   109.0    87.8    92.3
[3057,]   198.0   175.0   162.0
[3058,]   253.8   177.5   192.0
```

```
[3059,]   371.0   233.5   290.8
[3060,]   106.0    82.5    89.0
[3061,]   104.0    82.5    95.0
[3062,]   291.0   219.0   268.0
[3063,]   156.0   108.3   153.0
[3064,]   101.3    77.0    96.0
[3065,]   136.0    90.0    97.0
[3066,]   107.0    74.5    86.0
[3067,]   102.3    85.0    85.0
[3068,]   440.0   257.0   293.3
[3069,]   138.0   100.0   118.0
[3070,]   162.8   140.0   144.0
[3071,]   129.0   128.0   106.3
[3072,]   402.0   275.8   339.0
[3073,]   132.0   101.0   113.0
[3074,]   139.3   119.0   123.0
[3075,]   124.0    94.3   109.0
[3076,]   136.0    98.0   107.0
[3077,]   266.5   191.0   228.8
[3078,]   239.0   205.3   197.0
[3079,]   462.0   337.0   372.0
[3080,]   373.3   245.0   241.8
[3081,]   336.0   225.8   291.0
[3082,]  2085.0  1337.0  1067.0
[3083,]   124.5    84.0    98.3
[3084,]   165.0   113.5   116.0
[3085,]   116.0    88.0   101.0
[3086,]   167.3   115.0   146.5
[3087,]   179.0   109.5   130.0
[3088,]   125.0    85.0    92.0
[3089,]   107.5    91.0    97.8
[3090,]   180.0   117.5   140.0
[3091,]   556.0   374.0   429.0
[3092,]   150.0   118.0   135.0
[3093,]   231.0   155.3   223.8
[3094,]   150.0   104.0   146.0
[3095,]    90.8    76.3    78.0
[3096,]   104.0    83.0    77.8
[3097,]   116.0    85.0    89.0
[3098,]   108.8   123.5    99.3
[3099,]  1437.0   986.0   844.5
[3100,]  2343.0  1374.0  1349.8
```

```
[3101,]   328.3   201.0   194.0
[3102,]   130.0    84.0    91.3
[3103,]   112.0    76.5    99.8
[3104,]   121.5    99.3   105.3
[3105,]   289.0   176.8   167.3
[3106,]   218.0   184.5   211.5
[3107,]   183.0   133.0   163.0
[3108,]   127.0    99.3   113.3
[3109,]   195.0   147.0   159.8
[3110,]   163.3   114.5   127.5
[3111,]   214.0   190.0   189.0
[3112,]   876.0   608.0   720.5
[3113,]   614.0   461.8   510.0
[3114,]   169.5   137.3   135.0
[3115,]  1099.0   745.5   878.0
[3116,]   771.0   438.8   521.3
[3117,]   197.5   149.5   146.0
[3118,]   757.0   491.5   411.0
[3119,]   116.0    91.8   110.0
[3120,]    99.0    74.0    99.8
[3121,]   102.0    76.3    81.0
[3122,]   113.0    86.0   103.0
[3123,]   102.0    74.0   106.5
[3124,]   111.0    83.0    90.0
[3125,]   174.0   120.3   145.0
[3126,]   721.3   470.0   494.5
[3127,]   284.0   190.0   218.0
[3128,]   470.0   323.8   348.0
[3129,]   453.5   311.0   331.0
[3130,]   468.0   309.0   324.0
[3131,]   393.0   272.3   334.0
[3132,]   308.5   217.0   287.5
[3133,]   127.0   103.0   118.0
[3134,]   111.0    75.8    87.0
[3135,]    95.3    71.0    88.3
[3136,]   101.0    81.0    89.0
[3137,]   524.0   312.5   292.0
[3138,]  1611.3  1004.0  1135.0
[3139,]   528.0   360.0   446.0
[3140,]   130.0    94.5   104.0
[3141,]   119.0    95.0   101.0
[3142,]   119.0    79.0    88.0
```

```
[3143,]   108.0    68.0    87.0
[3144,]   119.0    98.0    99.0
[3145,]   360.0   221.0   272.5
[3146,]   193.3   149.8   180.0
[3147,]   124.3    92.0    91.0
[3148,]   100.3    74.0    96.0
[3149,]   151.5   110.0   116.0
[3150,]   175.3   119.0   130.0
[3151,]   170.8   136.0   134.3
[3152,]   974.0   582.8   429.0
[3153,]  1038.3   612.0   600.0
[3154,]   134.3    92.8   128.0
[3155,]   189.3   112.0   124.0
[3156,]   190.5   132.0   146.0
[3157,]   553.8   402.0   437.3
[3158,]   161.8    95.0    95.0
[3159,]   106.5    80.0    97.0
[3160,]   146.5    94.5    96.3
[3161,]   177.3   131.8   115.5
[3162,]   162.0   111.8   112.3
[3163,]   143.0   101.8   107.3
[3164,]   109.3    90.5   104.3
[3165,]   114.0   113.0   114.3
[3166,]    93.0    67.0    80.3
[3167,]    85.3    59.0    92.3
[3168,]    84.0    70.5    81.3
[3169,]    91.0    60.0    89.0
[3170,]    89.3    56.5    80.8
[3171,]   131.0   106.0   116.0
[3172,]   205.8   136.8   147.3
[3173,]   161.0   147.0   116.0
[3174,]  1036.0   737.0   528.0
[3175,]  3823.3  2014.8  2658.5
[3176,]   132.0   147.0   110.0
[3177,]   162.0   117.0   128.0
[3178,]   154.3   105.8   145.3
[3179,]   107.0    81.0    96.0
[3180,]   127.0    92.0   110.0
[3181,]   435.3   305.3   357.3
[3182,]   144.0   125.0   131.0
[3183,]   129.0   111.0   118.0
[3184,]   117.5    90.3   113.8
```

```
[3185,]   373.0   264.0   286.0
[3186,]   247.0   168.0   209.0
[3187,]   125.8    94.8   102.0
[3188,]    99.0    83.0    89.5
[3189,]   121.0    94.0   115.0
[3190,]   285.8   240.3   193.0
[3191,]   149.0   120.0   136.0
[3192,]   185.0   172.0   175.0
[3193,]   338.0   304.0   308.0
[3194,]   464.0   365.0   442.0
[3195,]   261.0   255.0   277.0
[3196,]   232.0   261.5   234.0
[3197,]  1301.0  1016.0  1108.8
[3198,]   531.0   595.0   503.0
[3199,]  2695.0  2124.8  2596.0
[3200,]   346.0   345.0   250.8
[3201,]   186.0   218.3   131.0
[3202,]   502.0   528.0   492.0
[3203,]  1260.3  1015.5   988.8
[3204,]   925.0   735.8   807.3
[3205,]   164.0   161.0   162.5
[3206,]   420.8   380.3   399.5
[3207,]   223.0   257.8   207.3
[3208,]   958.0   754.3   806.0
[3209,]  2150.0  1430.5  1805.0
[3210,]   177.0   142.0   147.3
[3211,]   168.0   137.5   154.3
[3212,]   203.8   215.0   175.3
[3213,]   517.0   447.5   452.0
[3214,]   318.0   283.8   303.5
[3215,]   128.3   177.8   107.0
[3216,]   602.0   466.3   563.5
[3217,]   140.0   119.8   116.3
[3218,]   127.3    90.8   107.0
[3219,]   115.0    94.3   112.0
[3220,]   137.0   100.0   125.0
[3221,]   129.0    89.0    98.0
[3222,]   149.0   116.3   135.5
[3223,]   368.0   280.0   283.8
[3224,]    97.3    85.0    86.0
[3225,]   152.0   123.0   138.0
[3226,]   155.0   135.0   147.0
```

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[3227,]   181.0   147.0   164.3
[3228,]   112.0   111.0   103.0
[3229,]   220.0   191.0   200.0
[3230,]   196.5   136.0   171.5
[3231,]   177.0   130.3   144.0
[3232,]   107.0    86.0    83.0
[3233,]   773.0   551.0   946.5
[3234,]   145.0   110.3   108.0
[3235,]   121.0   124.0   112.0
[3236,]   140.0   189.0   115.3
[3237,]   798.8   606.3   901.0
[3238,]    89.0   147.0    71.0
[3239,]   750.0   567.0  1013.0
[3240,]   763.0   534.3   944.0
[3241,]   692.0   563.0   934.0
[3242,]   764.0   516.0   997.0
[3243,]   124.3   106.3   100.0
[3244,]    89.0   117.0    83.0
[3245,]   818.0   570.0  1026.0
[3246,]   140.0   128.5   107.3
[3247,]   108.0   113.0    97.0
[3248,]   117.0   127.0   117.0
[3249,]   792.3   533.3   912.0
[3250,]   105.3   137.0    79.0
[3251,]   758.0   589.0   953.0
[3252,]   777.8   548.3   955.8
[3253,]   729.0   538.0   956.0
[3254,]   792.3   505.0   968.0
[3255,]   124.3    97.0   108.8
[3256,]    91.5    94.0    88.0
[3257,]   844.3   540.0   985.0
[3258,]   129.0   112.5   106.3
[3259,]   127.3    94.0   101.0
[3260,]   117.0    93.0   111.0
[3261,]   115.0   106.3   101.3
[3262,]    80.3   181.8    76.0
[3263,]   867.3   637.5  1005.0
[3264,]   135.8   133.0   102.3
[3265,]   124.5   113.3   102.0
[3266,]   115.5   120.5   108.0
[3267,]   842.3   618.3   881.0
[3268,]   106.8    73.5    72.0
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[3270,]   112.3    98.8    97.8
[3271,]   651.0   491.0   815.8
[3272,]   126.8    92.5   106.5
[3273,]   121.3    90.5    94.3
[3274,]    84.0    84.3    79.5
[3275,]   755.3   583.8   951.5
[3276,]   820.8   563.5   997.8
[3277,]   790.5   529.0   980.0
[3278,]   124.8   103.8    99.0
[3279,]   122.0    84.0    95.3
[3280,]   105.3    76.0    79.3
[3281,]   105.5   160.0    81.5
[3282,]   911.5   769.0   706.8
[3283,]  2242.8  1378.0  1652.8
[3284,]   692.3   537.0   462.5
[3285,]   151.0   156.0   244.5
[3286,]    88.8   158.0    87.3
[3287,]   827.3   549.0   903.0
[3288,]   136.0   118.0   106.0
[3289,]   126.0   123.0   103.3
[3290,]   125.0   116.5    97.0
[3291,]   942.8   605.0   962.0
[3292,]    93.0    96.0    72.0
[3293,]   817.0   544.5  1158.0
[3294,]   123.5    96.0   105.0
[3295,]   121.8    90.0   101.0
[3296,]   135.3   100.0   103.0
[3297,]   923.0   643.0  1095.0
[3298,]    91.0    76.0    97.5
[3299,]    82.3    88.3    85.0
[3300,]   284.0   195.0   203.0
[3301,]   137.8   125.0   122.0
[3302,]   549.3   399.0   452.0
[3303,]   805.0   615.0   719.0
[3304,]   116.3   103.0   113.0
[3305,]   816.0   544.3   971.0
[3306,]   135.0   111.0   103.0
[3307,]   130.5    94.0   120.5
[3308,]   124.0   102.8   101.0
[3309,]   897.0   587.0  1011.0
[3310,]    92.5    77.0    77.3
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[3312,]   126.0    94.0    98.0
[3313,]   133.0   117.0   110.0
[3314,]   860.3   552.3  1011.0
[3315,]   140.0   112.0   112.0
[3316,]    85.0   103.3   185.8
[3317,]   129.0   127.3    96.0
[3318,]   129.0   114.5   106.0
[3319,]   138.0   106.5   101.0
[3320,]   138.3   125.3   107.0
[3321,]   860.0   605.3  1037.0
[3322,]    98.0   144.8    75.0
[3323,]   899.3   651.0  1067.0
[3324,]   134.0   124.3   120.0
[3325,]   130.0   120.3   109.0
[3326,]   128.3   122.5   106.0
[3327,]   972.0   664.8  1017.0
[3328,]   101.0    85.8    77.0
[3329,]   100.8    75.0    80.0
[3330,]   115.0    94.3    94.0
[3331,]   264.0   223.8   251.5
[3332,]   342.0   256.5   252.3
[3333,]  1776.0  1141.8  1083.0
[3334,]   302.0   212.5   224.5
[3335,]   485.3   380.5   383.3
[3336,]  1347.0  1090.0  1015.8
[3337,]  1287.0   913.8   981.5
[3338,]   712.3   610.0   552.5
[3339,]  1374.0   981.0   981.8
[3340,]   394.0   359.0   321.8
[3341,]   344.3   308.0   330.5
[3342,]   540.0   408.0   391.0
[3343,]   920.0   654.5   781.8
[3344,]   208.5   216.0   178.5
[3345,]   715.0   564.0   551.5
[3346,]   207.0   190.3   189.8
[3347,]   377.8   403.0   316.8
[3348,]   563.0   614.0   454.5
[3349,]   749.0   683.8   610.0
[3350,]   490.8   470.0   333.8
[3351,]   217.0   220.0   223.0
[3352,]   174.0   182.0   177.0
```

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[3353,]   133.0   112.0   102.0
[3354,]   135.3   107.0   103.0
[3355,]   213.0   154.5   175.0
[3356,]   173.0   155.0   141.0
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[3359,]   114.0    86.0    89.0
[3360,]   304.5   230.0   241.0
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[3362,]   160.0   150.0   116.5
[3363,]   153.0   474.0   113.0
[3364,]  1946.0  1835.5  1384.0
[3365,]  5310.0  3732.0  3691.8
[3366,]   909.3   748.0   724.0
[3367,]   647.0   572.8   563.0
[3368,]   500.0   518.0   439.0
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[3370,]  2977.0  2000.3  2301.0
[3371,]   230.0   207.0   150.0
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[3373,]   828.0   632.8   696.0
[3374,]   389.0   302.8   343.8
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[3376,]   168.0   124.3   135.0
[3377,]   632.0   556.5   538.8
[3378,]   459.0   310.8   359.0
[3379,]   170.0   129.8   125.0
[3380,]   121.0   110.0   120.5
[3381,]   114.3   120.8   115.0
[3382,]   231.0   171.3   201.0
[3383,]   107.0    97.8    96.0
[3384,]   117.5   143.3   106.0
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[3386,]   217.0   221.0   175.0
[3387,]   287.0   403.0   249.8
[3388,] 12222.0  7763.0 10779.0
[3389,]   456.0   456.3   426.0
[3390,]   210.0   282.0   194.5
[3391,]  3916.0  2885.5  3153.0
[3392,]  1625.0  1285.3  1233.0
[3393,]  1031.0   859.5   871.0
[3394,]   962.8   742.0   739.0
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[3396,]  2227.0  1589.0  1804.5
[3397,]   588.3   459.0   525.8
[3398,]   256.0   195.0   236.3
[3399,]   250.0   194.3   239.0
[3400,]   183.0   153.0   164.8
[3401,]   182.0   112.0   130.3
[3402,]   111.0    90.5   100.0
[3403,]   105.8    87.0   104.0
[3404,]   149.0   125.0   143.5
[3405,]   172.0   115.5   128.5
[3406,]   236.0   152.0   178.0
[3407,]   142.0   105.0   119.3
[3408,]   175.0   145.8   161.5
[3409,]   616.5   425.0   547.8
[3410,]   212.3   205.0   177.8
[3411,]   309.8   250.3   265.5
[3412,]   196.8   134.0   158.8
[3413,]   175.3   157.0   158.3
[3414,]   634.5   523.0   619.3
[3415,]   240.3   195.0   194.0
[3416,]   260.5   224.0   220.0
[3417,]   496.5   328.8   338.5
[3418,]   392.8   263.0   282.0
[3419,]   182.3   160.0   157.0
[3420,]   242.3   216.3   238.8
[3421,]   520.3   342.0   390.0
[3422,]   279.8   190.0   183.0
[3423,]   120.0    78.5   116.5
[3424,]   191.5   145.0   171.0
[3425,]   148.0   114.0   136.0
[3426,]   250.3   203.8   202.3
[3427,]   376.8   264.0   279.0
[3428,]   145.0   102.0   120.0
[3429,]   195.5   158.0   155.0
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[3431,]   149.8   160.0   141.0
[3432,]   829.5   682.0   617.5
[3433,]   134.5   110.3   121.0
[3434,]   127.0    85.0    95.0
[3435,]   214.0   191.8   199.0
[3436,]   264.5   212.0   217.8
```

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[3437,]   203.8   154.8   177.0
[3438,]   514.5   420.0   467.0
[3439,]   132.8   104.3   120.3
[3440,]   214.0   192.0   198.0
[3441,]   306.0   219.3   273.0
[3442,]   531.8   351.8   340.0
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[3445,]   627.0   474.8   587.3
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[3448,]   224.8   188.8   175.5
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[3450,]   151.5   113.0   121.0
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[3452,]   111.3    88.3    82.0
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[3454,]   136.8   114.0   144.3
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[3461,]   350.0   213.5   329.3
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[3468,]   106.0    75.0    89.0
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[3470,]   110.5    75.0    87.3
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[3472,]   454.0   304.0   267.8
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[3474,]  4481.5  2979.0  3699.0
[3475,]   132.0    73.0   104.0
[3476,]   147.0    99.0   149.8
[3477,]   129.3   106.0   120.8
[3478,]   454.0   309.0   384.8
```

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[3482,]   115.0    88.3   112.0
[3483,]   233.3   155.0   188.0
[3484,]   583.0   397.0   509.0
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[3496,]  6743.0  4682.5  7141.0
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[3507,]   149.0   102.3   130.0
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[3509,]   102.0    79.3    87.0
[3510,]   102.0    79.0    81.0
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[3512,]   129.0    99.0   117.8
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[3515,]   125.0    73.0    94.8
[3516,]   116.0    86.0   100.0
[3517,]   129.5    87.5   105.0
[3518,]   113.0    86.0   104.0
[3519,]   247.0   161.0   216.0
[3520,]   100.3    74.5    86.0
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[3525,]   185.0   124.0   133.0
[3526,]   207.3   134.3   153.0
[3527,]   125.0    95.0   111.5
[3528,]   123.0    98.0   109.0
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[3541,]   381.3   209.5   332.8
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[3558,]   116.0    82.0   108.5
[3559,]   152.0   102.0   147.0
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[3561,]   156.0   110.5   131.3
[3562,]   199.0   136.5   186.0
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[3580,]   107.3    77.0    99.0
[3581,]   261.0   124.0   299.0
[3582,]   349.8   177.3   344.0
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[3584,]   116.8    85.0   106.0
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[3592,]   645.8   341.0   532.0
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[3594,]   472.0   315.3   393.0
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[3597,]   116.0    70.8   105.8
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[3599,]  1502.0   783.0  1332.3
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[3601,]   319.3   202.0   256.0
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[3603,]   114.0    79.3   109.0
[3604,]    90.3    56.0    89.3
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[3607,]   101.5    72.0    93.8
[3608,]   120.3   100.3   103.0
[3609,]   125.0    77.8    89.0
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[3611,]   117.0    75.0    91.0
[3612,]   108.5    75.8    94.0
[3613,]   673.8   466.8   533.0
[3614,]   274.3   185.8   226.0
[3615,]   336.3   240.5   313.0
[3616,]   273.3   221.5   291.3
[3617,]   214.3   152.0   184.0
[3618,]   398.8   257.3   345.0
[3619,]   753.8   515.0   620.5
[3620,]  8182.3  5724.3  8028.0
[3621,]   632.5   474.0   602.0
[3622,]   176.5   142.5   155.0
[3623,]   473.8   334.3   485.0
[3624,]   223.5   167.5   196.0
[3625,]   779.0   537.3   651.0
[3626,]   101.0    80.3   110.0
[3627,]   102.3    76.0    90.0
[3628,]   278.0   208.0   223.5
[3629,]   165.0   116.8   133.0
[3630,]   119.0    84.0   113.0
[3631,]   142.0   103.0   124.0
[3632,]   105.0    73.5    85.5
[3633,]   131.0    92.0   105.0
[3634,]   213.3   150.0   184.0
[3635,]   185.0   132.3   135.3
[3636,]  1142.0   799.0   730.0
[3637,]   317.3   231.0   252.0
[3638,]   440.0   296.3   330.3
[3639,]   172.0   145.0   173.0
[3640,]   100.5    82.0    97.0
[3641,]   376.0   282.3   301.8
[3642,]    90.0    68.0    83.0
[3643,]   111.8    73.0    88.0
[3644,]   119.0    72.8   102.5
[3645,]    93.0    65.0    84.0
[3646,]   193.5   133.0   145.0
```

```
[3647,]  3822.0  2708.5  3269.3
[3648,]   100.0    73.0   101.0
[3649,]   106.3    85.0   107.0
[3650,]   291.0   199.3   272.3
[3651,]   130.0    88.0   125.3
[3652,]   126.5    96.0   105.0
[3653,]   418.0   324.3   322.5
[3654,]   461.0   338.0   299.5
[3655,]   503.8   320.0   367.5
[3656,]   154.0    99.5   113.5
[3657,]   127.0    77.0    91.3
[3658,]  3086.8  2117.0  2073.3
[3659,]   406.0   304.5   267.8
[3660,]   599.0   423.0   458.3
[3661,]   634.3   476.0   525.0
[3662,]  1561.0  1090.0  1368.3
[3663,]   169.0   148.0   165.3
[3664,]   445.5   342.0   397.3
[3665,]   644.0   479.0   601.5
[3666,]   136.0    99.3   103.3
[3667,]   233.5   206.0   217.5
[3668,]   212.0   167.0   173.0
[3669,]   216.0   167.3   189.5
[3670,]   621.5   449.5   526.5
[3671,]   534.0   386.3   498.0
[3672,]   173.0   131.3   154.0
[3673,]   989.0   686.8   886.0
[3674,]   519.8   379.0   440.5
[3675,]   640.0   458.0   516.0
[3676,]   655.0   454.8   483.0
[3677,]  1924.5  1363.0  1390.8
[3678,]   689.0   475.8   521.0
[3679,]   307.0   229.0   264.0
[3680,]   203.3   163.8   166.0
[3681,]   422.0   295.5   361.0
[3682,]   127.0   102.0   134.0
[3683,]   410.0   359.0   258.0
[3684,]   102.0    72.5    82.5
[3685,]    96.0    68.5    72.0
[3686,]   101.3    70.0    88.0
[3687,]   312.0   250.0   267.8
[3688,]   112.0    85.8    90.0
```

```
[3689,]   364.5   242.0   269.0
[3690,]   301.0   235.0   237.3
[3691,]   458.0   302.5   301.0
[3692,]   171.0   137.0   123.0
[3693,]   286.0   216.0   251.0
[3694,]   287.0   194.0   229.0
[3695,]   403.0   302.0   326.0
[3696,]   107.0    92.0   119.0
[3697,]   584.0   472.5   474.0
[3698,]   127.0    92.0    97.0
[3699,]   117.0    96.0    91.3
[3700,]   124.0    97.0   110.0
[3701,]   227.8   146.0   196.0
[3702,]   206.0   166.0   150.3
[3703,]   109.0    82.3    94.0
[3704,]   202.3   131.0   125.0
[3705,]  2966.0  1893.0  2221.5
[3706,]   526.0   352.0   421.0
[3707,]   402.0   298.0   259.0
[3708,]   288.0   216.0   189.8
[3709,]    90.0    77.5    94.0
[3710,]    96.3    80.0    82.0
[3711,]   136.0   118.0   114.3
[3712,]   438.0   384.8   439.0
[3713,]   326.0   251.0   250.0
[3714,]   726.8   527.0   442.3
[3715,]   135.0    90.5   104.5
[3716,]   108.0    92.0   100.8
[3717,]   374.5   277.0   327.0
[3718,]   104.0    85.8    87.0
[3719,]  1176.0   801.0   963.3
[3720,]  2214.8  1551.0  1746.5
[3721,]   801.0   576.3   591.0
[3722,]  1578.0  1053.0  1371.0
[3723,]   356.5   218.0   298.3
[3724,]   315.0   243.3   304.0
[3725,]   650.0   472.0   453.0
[3726,]   338.0   287.0   215.0
[3727,]  4207.0  2850.3  3883.0
[3728,]   432.0   362.8   396.5
[3729,]   979.8   819.5   829.8
[3730,]  1633.0  1116.3  1608.0
```

```
[3731,]   340.0   266.3   339.8
[3732,]   832.0   531.0   697.5
[3733,]   310.3   239.8   229.0
[3734,]    97.3    72.3    93.5
[3735,]   207.0   141.8   149.8
[3736,]   282.5   234.3   284.3
[3737,]   680.5   585.8   656.0
[3738,]   219.0   166.0   163.0
[3739,]   265.3   209.0   227.3
[3740,]   857.3   609.5   673.0
[3741,]   903.8   660.3   638.0
[3742,]   535.0   379.3   447.5
[3743,]  1381.5   917.0  1082.0
[3744,]   418.5   284.0   344.0
[3745,]   236.0   145.0   184.3
[3746,]   153.8   109.0   136.0
[3747,]   103.8    71.5    86.0
[3748,]   114.3    78.0    83.3
[3749,]   109.5    78.0    93.0
[3750,]    89.0    80.8    77.0
[3751,]   109.3    88.0    83.5
[3752,]   254.3   182.0   177.0
[3753,]   706.3   512.5   526.0
[3754,]   301.5   233.0   259.0
[3755,]  1055.3   798.0  1052.0
[3756,]   306.3   218.3   276.0
[3757,]   266.5   172.0   233.8
[3758,]   184.8   152.0   170.0
[3759,]   223.3   157.0   227.0
[3760,]    97.5    83.0    93.0
[3761,]   141.3   107.0   126.0
[3762,]  1270.5   904.0  1014.0
[3763,]   263.5   188.0   209.0
[3764,]   500.8   358.0   262.0
[3765,]   184.3   139.3   176.0
[3766,]   174.0   127.0   155.3
[3767,]   189.3   130.0   141.0
[3768,]   365.8   274.8   309.0
[3769,]   116.3    80.0   107.0
[3770,]   245.0   192.0   204.0
[3771,]   341.3   262.5   330.0
[3772,]   786.3   592.0   649.3
```

```
[3773,]   567.3   466.0   525.0
[3774,]   123.5    91.3   114.0
[3775,]   298.3   198.0   236.8
[3776,]   262.8   210.0   199.0
[3777,]   133.8    98.3   110.0
[3778,]  2262.3  1547.0  1425.0
[3779,]   681.5   457.0   535.5
[3780,]   218.3   173.0   196.3
[3781,]   259.3   222.0   318.3
[3782,]  3675.3  2494.5  3336.3
[3783,]   490.8   375.8   489.0
[3784,]   439.5   295.3   395.3
[3785,]   137.0    86.0   107.0
[3786,]   505.0   413.3   474.5
[3787,]   172.5   124.5   146.8
[3788,]   839.0   713.5   874.8
[3789,]   105.0    73.3    83.3
[3790,]   197.3   133.8   120.0
[3791,]   117.0    87.8   102.5
[3792,]   767.0   543.5   549.3
[3793,]   192.0   134.8   176.3
[3794,]   115.8    81.0   103.5
[3795,]   118.0    89.8   111.5
[3796,]   970.0   646.3   615.3
[3797,]   712.8   492.8   526.0
[3798,]   167.0   130.5   138.3
[3799,]   233.0   169.0   200.8
[3800,]   122.3   108.3   116.8
[3801,]   295.0   194.0   220.0
[3802,]   222.0   146.0   176.0
[3803,]   112.5    79.0    90.0
[3804,]   221.0   158.0   169.0
[3805,]   472.0   349.0   371.0
[3806,]   589.8   406.3   468.5
[3807,]  5257.0  3539.0  3645.0
[3808,]   405.0   310.0   282.0
[3809,]  1018.3   711.8   838.5
[3810,]   136.0   101.0   136.0
[3811,]  1000.0   582.0  1277.0
[3812,]   183.5   126.3   142.5
[3813,]   209.0   157.0   167.0
[3814,]   322.0   279.0   193.0
```

```
[3815,]  1693.3   843.5   930.0
[3816,]   141.0    98.0   111.0
[3817,]   161.0   101.0   128.0
[3818,]   149.5    88.3   122.5
[3819,]   135.0    95.0   112.0
[3820,]    91.0    66.5    89.0
[3821,]   219.3   146.8   179.0
[3822,]   170.0   103.5   136.0
[3823,]   124.0    71.0   108.5
[3824,]   119.3    70.0    98.3
[3825,]   262.0   173.5   212.3
[3826,]   175.0   119.8   157.5
[3827,]   113.3    95.8    86.3
[3828,]   106.0   116.0    80.0
[3829,]   135.0   185.3   118.5
[3830,]   135.8   231.0   117.8
[3831,]   166.0   226.0   180.0
[3832,]   144.0   170.8   127.0
[3833,]   166.0   135.3   140.5
[3834,]   280.8   231.3   262.8
[3835,]   191.0   205.0   196.8
[3836,]   528.0   399.5   469.0
[3837,]   309.0   301.8   305.5
[3838,]   292.3   392.8   287.5
[3839,]  2087.5  1448.8  1816.3
[3840,]   207.0   287.0   220.0
[3841,]   129.0   320.0   126.0
[3842,]   418.3   601.8   508.3
[3843,]  1367.3  1112.0  1134.3
[3844,]  1269.3   871.0  1128.0
[3845,]   207.8   208.0   177.0
[3846,]   360.3   269.0   324.8
[3847,]   206.3   176.0   182.0
[3848,]   201.8   180.0   156.0
[3849,]   418.0   299.0   340.8
[3850,]   125.3   106.0   115.0
[3851,]   128.3   135.8   140.0
[3852,]   155.8   217.0   165.0
[3853,]   318.0   291.0   261.0
[3854,]   383.3   285.8   297.0
[3855,]   113.0   110.0    98.0
[3856,]   234.3   148.0   193.0
```

```
[3857,]   136.8    98.0   106.0
[3858,]   125.0    89.0   107.5
[3859,]    96.0    70.5    83.0
[3860,]   114.0    77.0    91.0
[3861,]   111.3    88.0   102.8
[3862,]   141.3    91.0   129.0
[3863,]   150.0    96.0   112.0
[3864,]   148.3   119.0   163.0
[3865,]   167.5   131.5   150.0
[3866,]   138.8   128.0   120.0
[3867,]   222.0   171.0   194.3
[3868,]   129.0   116.0    97.0
[3869,]   184.3   164.0   165.0
[3870,]   144.3   112.0   125.3
[3871,]   156.0   105.3   128.0
[3872,]    96.3    90.0    91.0
[3873,]   770.5   499.0   877.8
[3874,]   123.0   118.3   119.0
[3875,]   136.0   134.0   126.0
[3876,]   118.5   156.0   112.0
[3877,]   840.8   610.5  1021.0
[3878,]    89.3   106.0    91.0
[3879,]   848.0   551.5  1137.0
[3880,]   134.8   138.5   133.8
[3881,]   126.0   154.8   120.0
[3882,]   123.3   131.8   129.0
[3883,]   132.5   101.8   108.0
[3884,]    88.3   103.8    79.0
[3885,]   842.8   545.8  1165.8
[3886,]   134.8   115.8   103.5
[3887,]   123.3   109.0   118.8
[3888,]   128.5   122.0   112.8
[3889,]   813.3   581.0  1059.5
[3890,]   104.0   165.0    83.0
[3891,]   878.0   591.8  1126.3
[3892,]   117.0   144.3   109.0
[3893,]   121.0   136.3   107.8
[3894,]   127.0   123.5   124.3
[3895,]   132.0   100.3   110.5
[3896,]   105.0    73.8    80.5
[3897,]   849.0   531.0  1190.8
[3898,]   129.8   118.5   109.5
```

```
[3899,]   126.0    99.0   121.0
[3900,]   131.0    93.0   113.3
[3901,]   753.3   519.3  1103.0
[3902,]   112.0   203.0    79.3
[3903,]   904.0   659.0  1195.0
[3904,]   150.0   132.3    95.3
[3905,]   145.0   115.0   104.5
[3906,]   150.0   166.0   109.8
[3907,]   845.8   633.0  1026.8
[3908,]   103.0    78.0    81.0
[3909,]   131.0    97.0   102.0
[3910,]   118.0    97.3   109.0
[3911,]   750.0   481.0  1046.0
[3912,]   127.0    94.0   113.0
[3913,]   126.0    89.3    96.5
[3914,]    97.0    88.0    81.0
[3915,]   950.0   580.0  1112.0
[3916,]   134.0   106.0   128.8
[3917,]   125.5   105.0   119.0
[3918,]   128.0    91.8   101.0
[3919,]   134.0    92.0   106.3
[3920,]    91.3    67.0    81.0
[3921,]    96.0   117.8    80.0
[3922,]   587.0   553.0   475.0
[3923,]  1110.3   815.0   945.0
[3924,]   477.0   405.5   343.0
[3925,]   144.0   168.0   115.0
[3926,]    88.5   112.0    92.0
[3927,]   868.0   571.3  1011.0
[3928,]   134.0   101.0   118.0
[3929,]   124.0   106.0   108.3
[3930,]   123.0   108.3   120.0
[3931,]   932.0   611.0  1017.0
[3932,]   100.8    91.0    81.0
[3933,]   834.0   542.8  1109.0
[3934,]   124.0   110.0   103.0
[3935,]   130.3   102.0   108.5
[3936,]   129.0   107.3   117.0
[3937,]   911.0   625.5  1117.0
[3938,]    84.0    76.3    82.0
[3939,]    82.0    99.5    77.0
[3940,]   139.0   131.0   128.0
```

```
[3941,]   157.3   137.5   159.8
[3942,]  1288.0   812.5   903.0
[3943,]  1108.0   712.3   792.0
[3944,]   105.0   106.3   106.3
[3945,]   811.0   571.5   951.0
[3946,]   125.0   111.3   114.0
[3947,]   139.5   100.8   112.3
[3948,]   129.0   121.5   113.0
[3949,]   874.0   628.5  1065.8
[3950,]   104.5    87.3    84.3
[3951,]   133.0    94.5   105.0
[3952,]   132.0   106.0   106.3
[3953,]   773.0   535.5  1022.5
[3954,]   142.0   110.0   108.5
[3955,]   121.0   101.8   116.8
[3956,]    99.0   126.0    76.0
[3957,]   774.5   551.0   932.3
[3958,]   132.0   116.0   109.8
[3959,]   118.0   104.0   117.3
[3960,]   129.8   106.0   114.3
[3961,]   924.0   595.0  1080.3
[3962,]    93.0   156.0    77.5
[3963,]   896.0   675.5  1284.3
[3964,]   139.0   128.0   107.8
[3965,]   141.0   101.0   109.5
[3966,]   134.3   107.8   111.3
[3967,]  1073.0   712.0  1217.5
[3968,]    91.0    89.0    74.0
[3969,]    89.3    80.0    82.5
[3970,]   106.0    87.0    82.3
[3971,]   145.0   108.0   118.3
[3972,]   210.5   154.5   143.0
[3973,]  1176.0   776.0   786.0
[3974,]   212.0   137.0   164.0
[3975,]   374.8   288.0   301.5
[3976,]   790.0   611.0   583.0
[3977,]   331.0   366.8   259.0
[3978,]   442.5   665.0   352.5
[3979,]   474.0   842.0   357.0
[3980,]   354.0   343.8   273.0
[3981,]   390.5   339.0   319.0
[3982,]   484.0   350.0   332.0
```

```
[3983,]   341.0   258.8   313.0
[3984,]   136.3   123.0   119.5
[3985,]   427.0   302.0   343.0
[3986,]   161.0   184.5   152.0
[3987,]   566.8   521.0   507.0
[3988,]   764.0   677.0   541.0
[3989,]   720.0   642.3   649.0
[3990,]   372.8   338.0   323.0
[3991,]   232.0   218.0   211.0
[3992,]   231.0   201.5   190.0
[3993,]   132.0   158.0   124.3
[3994,]   134.3   227.0   118.0
[3995,]   370.0   332.0   324.0
[3996,]   134.0   131.0   102.0
[3997,]   114.3   107.0   104.0
[3998,]   111.3   114.0   102.0
[3999,]   121.5    96.3   102.0
[4000,]   118.5    76.0   105.0
[4001,]   123.8    80.5   101.0
[4002,]   129.3   121.5    99.0
[4003,]   129.3   238.3   106.0
[4004,]  1497.0  1178.3   975.0
[4005,]  2783.0  1880.3  1946.5
[4006,]  1542.5  1182.5  1130.0
[4007,]  1238.5  1038.8   973.0
[4008,]  1302.0  1158.5  1141.8
[4009,]  1007.0   911.8   798.0
[4010,]  1481.8  1008.0  1143.0
[4011,]   207.8   204.0   178.0
[4012,]   263.0   258.5   218.0
[4013,]  1022.3   709.3   789.8
[4014,]   388.0   249.0   316.5
[4015,]   838.0   495.0   589.5
[4016,]   136.3   110.0   127.8
[4017,]   273.0   230.0   215.0
[4018,]   366.8   284.0   288.5
[4019,]   137.0   119.0   120.8
[4020,]   128.5   112.0   112.0
[4021,]   140.0   139.0   125.8
[4022,]   203.5   141.8   176.0
[4023,]   103.5   102.0    97.5
[4024,]   154.3   134.0   118.0
```

```
[4025,]   232.8   192.8   202.8
[4026,]   165.3   171.0   143.3
[4027,]   299.3   350.0   299.0
[4028,]  4905.5  3054.0  3418.0
[4029,]   705.3   548.0   583.3
[4030,]   189.3   220.0   171.0
[4031,]  2610.0  1839.0  2176.3
[4032,]  2167.3  1482.0  1533.5
[4033,]  1073.0   842.5  1020.3
[4034,]  1118.3   947.0   972.3
[4035,]  2888.0  1962.0  2392.0
[4036,]  1986.5  1375.3  1488.5
[4037,]   706.5   546.0   603.0
[4038,]   439.8   350.0   461.0
[4039,]   444.5   302.3   359.0
[4040,]   188.5   131.0   153.0
[4041,]   118.8    89.0   105.0
[4042,]   101.5    88.3    80.3
[4043,]   106.5    90.0    95.0
[4044,]   112.8    86.0    96.0
[4045,]   146.0   119.3   108.5
[4046,]   224.3   164.0   181.0
[4047,]   124.8   102.0    99.0
[4048,]   147.3   131.3   137.0
[4049,]   241.8   165.0   186.0
[4050,]   203.0   164.0   179.0
[4051,]   188.0   137.3   142.5
[4052,]   191.5   137.0   158.0
[4053,]   181.0   178.0   161.0
[4054,]   998.0   708.3   953.5
[4055,]   236.3   212.0   202.0
[4056,]   557.0   410.8   458.0
[4057,]   204.0   178.0   219.8
[4058,]   255.0   212.0   229.0
[4059,]   201.0   273.0   183.0
[4060,]   715.0   542.3   534.5
[4061,]   247.8   207.0   237.0
[4062,]   143.0   105.8   120.0
[4063,]   126.0    80.3   109.3
[4064,]   181.0   115.5   170.0
[4065,]   160.0   121.3   142.0
[4066,]   159.0   133.3   156.3
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[4067,]   146.5   123.0   163.0
[4068,]   152.0   121.8   149.0
[4069,]   137.0    84.8   122.3
[4070,]   180.5   120.5   115.0
[4071,]   178.0   146.8   133.0
[4072,]   225.0   196.0   177.0
[4073,]   187.0   158.0   182.8
[4074,]   123.0   135.0    88.0
[4075,]   109.0    97.0    96.0
[4076,]   128.0    83.0    98.3
[4077,]   107.0    84.0    94.5
[4078,]   126.0   115.0   132.3
[4079,]   185.0   162.0   158.5
[4080,]   166.5   157.0   149.3
[4081,]   234.0   226.0   273.3
[4082,]   483.0   333.0   368.5
[4083,]   504.0   327.0   381.8
[4084,]   487.0   327.0   379.8
[4085,]   227.0   176.0   201.8
[4086,]   549.5   339.0   392.8
[4087,]   241.0   158.3   174.5
[4088,]   282.0   227.0   202.8
[4089,]   776.8   600.0   610.3
[4090,]   164.0   173.0   163.8
[4091,]   134.0   195.0   107.3
[4092,]   118.8   113.3   113.3
[4093,]   102.0    80.0    79.8
[4094,]   111.0    76.0   100.5
[4095,]   110.3    72.8    88.0
[4096,]   422.0   270.0   350.3
[4097,]   570.0   401.0   524.3
[4098,]   452.5   311.3   338.8
[4099,]   375.0   230.0   307.0
[4100,]   179.0   129.0   198.3
[4101,]   323.5   244.3   268.0
[4102,]   201.0   146.0   205.0
[4103,]   356.0   274.0   299.0
[4104,]   538.5   354.3   425.0
[4105,]   215.0   123.0   174.0
[4106,]   131.0    89.0   119.0
[4107,]   118.3    86.3   101.0
[4108,]   109.0    77.0    84.0
```

```
[4109,]   107.0    76.0    82.0
[4110,]   108.0    66.3    84.0
[4111,]   129.0    92.5   112.0
[4112,]   166.0   119.0   169.0
[4113,]   124.0    64.0    95.0
[4114,]  1163.0   780.8   912.0
[4115,]   129.0    85.3   123.3
[4116,]   136.0    80.5   113.0
[4117,]   164.8    98.3   145.0
[4118,]   519.0   308.8   414.5
[4119,]   187.0   117.3   169.0
[4120,]   116.0    69.3    92.0
[4121,]   134.0    92.0   114.0
[4122,]   117.0    76.5   100.5
[4123,]   343.5   257.8   266.0
[4124,]  1282.0   797.8   897.0
[4125,]   510.0   358.8   421.8
[4126,]   197.0   128.0   178.0
[4127,]   164.0   103.8   129.0
[4128,]   276.0   175.5   215.3
[4129,]   146.3    96.0   116.0
[4130,]   270.0   176.0   191.0
[4131,]   144.0   114.3   117.3
[4132,]  1240.5   870.0   836.0
[4133,]   712.0   486.0   478.0
[4134,]   774.0   503.3   551.5
[4135,]   252.3   197.0   213.0
[4136,]   779.0   646.0   811.0
[4137,]   162.0   127.3   136.8
[4138,]   105.0    78.0    85.0
[4139,]    96.0    68.0    91.0
[4140,]   121.0    89.3    98.0
[4141,]   110.3    70.0    84.0
[4142,]   112.0    62.0    85.3
[4143,]   103.0    62.3    85.3
[4144,]   109.8    69.0    91.3
[4145,]   100.0    69.0    85.3
[4146,]    99.0    67.0    90.8
[4147,]   128.0    83.0    91.3
[4148,]   100.0    57.3    90.3
[4149,]   111.0    74.0    88.5
[4150,]   101.8    76.0    76.5
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[4151,]   211.0   134.0   174.5
[4152,]   242.0   182.0   289.3
[4153,]   113.0    82.0   122.3
[4154,]   106.5    83.3   105.0
[4155,]   115.0    82.0    92.8
[4156,]   105.0    76.0    94.5
[4157,]    91.5    76.3   100.8
[4158,]   128.0    89.0   121.0
[4159,]   119.3    93.0    98.5
[4160,]   102.5    72.5    85.5
[4161,]   126.0    89.0   101.8
[4162,]   103.3    97.0    96.0
[4163,]   101.0    94.3    93.0
[4164,]   108.5    99.0    86.3
[4165,]   131.3   101.0   113.0
[4166,]   147.3   104.0   123.0
[4167,]   117.8    76.0    84.3
[4168,]   144.3   104.0   110.0
[4169,]   123.8    91.8   110.0
[4170,]   109.8    80.3    96.5
[4171,]   103.3    75.0   101.0
[4172,]   119.3    98.3   105.0
[4173,]   121.5   102.3   114.0
[4174,]   104.3    86.0    91.3
[4175,]   117.0    85.5    97.0
[4176,]   195.5   122.3   150.0
[4177,]   125.0    97.8   109.5
[4178,]   161.5   118.0   133.0
[4179,]   797.8   411.5   641.0
[4180,]   163.5    94.5   124.3
[4181,]   222.8   116.0   185.0
[4182,]   288.3   184.3   224.0
[4183,]   842.8   306.3   496.3
[4184,]   264.5   118.8   197.0
[4185,]   146.0    88.0   121.0
[4186,]   188.3   108.8   157.0
[4187,]   156.3   102.8   134.0
[4188,]   161.0    93.0   103.0
[4189,]   154.3    91.0   108.8
[4190,]   172.0   111.0   140.0
[4191,]   135.3   106.0   137.0
[4192,]   194.8   118.0   202.3
```

```
[4193,]   456.0   261.0   252.0
[4194,]   460.0   261.0   262.0
[4195,]   146.5    88.0   121.3
[4196,]   116.8    69.8    98.0
[4197,]   161.3   104.0   129.0
[4198,]   136.5    85.0   121.8
[4199,]   172.5    97.3   143.0
[4200,]   139.8    93.0   116.0
[4201,]   193.8   124.0   147.0
[4202,]   245.3   155.0   237.0
[4203,]   250.3   136.0   185.0
[4204,]   270.0   162.0   271.5
[4205,]   406.8   186.0   355.8
[4206,]   560.0   224.0   470.3
[4207,]   147.8    84.0   122.3
[4208,]   137.5    95.0   112.0
[4209,]   107.3    76.0    90.0
[4210,]    99.0    77.0    95.8
[4211,]   114.0    76.0    92.8
[4212,]   117.5    85.0    96.0
[4213,]   317.0   151.3   250.5
[4214,]  3147.0   969.0  2026.5
[4215,]   582.3   190.0   450.0
[4216,]   177.0    88.0   130.3
[4217,]   109.0    70.0    96.3
[4218,]   106.8    71.0    85.3
[4219,]   111.0    81.0    93.5
[4220,]   109.0    80.0   120.3
[4221,]   163.3    88.0   144.3
[4222,]   311.0   154.5   290.5
[4223,]   167.0   100.0   125.5
[4224,]   120.3    71.0   112.3
[4225,]   127.0    91.3   115.3
[4226,]   219.0   125.0   170.5
[4227,]   453.5   235.0   365.0
[4228,]   238.0   143.8   222.0
[4229,]   962.0   496.8   734.0
[4230,]  5068.5  2135.8  3892.0
[4231,]   672.0   345.0   594.0
[4232,]   286.0   193.3   242.8
[4233,]   170.0   121.3   166.0
[4234,]   900.3   486.8   629.0
```

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[4235,]   878.0   436.0   601.3
[4236,]   339.0   219.5   341.0
[4237,]   132.0    92.8   103.0
[4238,]   142.0    93.3   106.5
[4239,]  1157.0   597.0   971.0
[4240,]   347.0   182.0   315.0
[4241,]   206.0    95.3   154.3
[4242,]   112.0    76.0   108.0
[4243,]   102.5    66.0    89.0
[4244,]    91.0    69.8    83.0
[4245,]   120.0    75.5   102.0
[4246,]   123.0    81.0    99.0
[4247,]   102.0    76.0    81.8
[4248,]   106.0    67.0    77.0
[4249,]   110.0    78.0    86.0
[4250,]    99.0    68.0    89.8
[4251,]   128.0    88.0    99.0
[4252,]   134.0    84.8   106.0
[4253,]   591.0   416.0   488.8
[4254,]   271.0   186.0   227.0
[4255,]   181.8   125.0   147.0
[4256,]   166.0   115.0   133.5
[4257,]   175.0   119.0   135.0
[4258,]   390.3   262.8   326.0
[4259,]   468.0   327.0   415.5
[4260,]  1051.0   723.0   796.0
[4261,]   419.3   267.3   388.0
[4262,]   218.0   146.0   187.0
[4263,]   268.0   194.0   233.0
[4264,]   139.0    96.0   113.0
[4265,]   231.0   161.0   205.3
[4266,]   109.0    77.0   118.0
[4267,]   134.3    94.0   111.0
[4268,]   264.0   164.0   199.5
[4269,]   126.0    82.3   108.3
[4270,]   104.0    72.0    84.5
[4271,]   120.0    78.0    79.8
[4272,]   112.0    75.5    93.5
[4273,]   123.0    79.0    97.8
[4274,]   373.5   229.0   277.8
[4275,]   241.0   180.3   186.0
[4276,]   287.0   187.0   177.0
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[4277,]   435.3   367.0   418.5
[4278,]   773.0   517.8   580.0
[4279,]   368.0   258.0   350.3
[4280,]   107.0    80.0   106.3
[4281,]   159.0   118.8   135.3
[4282,]   113.0    70.0    84.3
[4283,]   101.0    67.0    80.0
[4284,]   110.0    75.5    97.3
[4285,]   105.0    73.0    82.3
[4286,]   110.5    87.3   107.3
[4287,]   218.0   157.8   146.0
[4288,]   106.0    67.0    86.0
[4289,]    98.0    71.0    85.0
[4290,]   417.0   280.8   332.3
[4291,]   150.0   112.5   119.0
[4292,]   147.5   110.3   125.0
[4293,]   307.0   228.5   212.5
[4294,]   506.0   331.8   329.0
[4295,]   612.5   370.3   428.0
[4296,]   218.0   130.0   154.3
[4297,]   118.0    78.3   106.0
[4298,]   649.8   421.5   375.0
[4299,]   153.0   107.5   136.8
[4300,]   803.0   510.0   627.0
[4301,]   411.5   289.0   283.0
[4302,]   635.0   416.0   478.3
[4303,]   119.0    84.5   114.0
[4304,]   284.3   236.5   256.0
[4305,]  1303.0   890.8  1027.0
[4306,]   122.0    79.0    99.0
[4307,]   145.5   120.0   129.0
[4308,]   230.0   161.5   204.3
[4309,]   168.0   107.0   138.0
[4310,]   231.3   175.0   184.0
[4311,]   279.0   183.8   265.0
[4312,]   175.0   118.0   116.0
[4313,]   394.0   240.0   290.0
[4314,]   691.8   427.5   493.5
[4315,]   721.0   473.0   473.0
[4316,]   327.0   249.0   276.0
[4317,]   717.8   501.0   522.3
[4318,]  1350.3   864.0   965.0
```

```
[4319,]   230.8   160.0   190.0
[4320,]   193.3   149.8   161.0
[4321,]   251.3   175.0   216.8
[4322,]   120.3    88.3   116.0
[4323,]   129.8   106.0   105.0
[4324,]   109.5    79.0    99.5
[4325,]    95.0    69.0    85.0
[4326,]   105.8    72.0    81.0
[4327,]   136.5    91.0   108.0
[4328,]    96.0    80.8    82.0
[4329,]   299.0   192.0   214.0
[4330,]   199.8   131.0   138.0
[4331,]   243.5   167.8   165.0
[4332,]   128.0    98.0   113.0
[4333,]   163.0   122.0   145.0
[4334,]   186.0   118.0   133.8
[4335,]   258.8   168.0   193.0
[4336,]   131.5    89.0    98.3
[4337,]   274.5   180.8   200.3
[4338,]   120.8    93.0    98.0
[4339,]   103.8    90.0    88.5
[4340,]   117.0    82.3   103.3
[4341,]   154.5   121.0   140.5
[4342,]   129.5    91.0    96.0
[4343,]   106.3    85.3    92.3
[4344,]   113.3    80.3    93.0
[4345,]   585.3   389.3   428.8
[4346,]   292.3   220.5   221.0
[4347,]   134.3    79.8   101.3
[4348,]   101.0    80.8   101.3
[4349,]   119.5    80.5    93.5
[4350,]   104.5    73.3    88.8
[4351,]   127.3    84.0   114.0
[4352,]   126.0    92.0   108.3
[4353,]   384.3   261.5   231.5
[4354,]   233.8   155.8   148.3
[4355,]   125.5    90.8    97.0
[4356,]   142.3   102.3   110.0
[4357,]   210.3   130.3   152.3
[4358,]   117.0    78.3    85.0
[4359,]   470.3   326.5   319.0
[4360,]   890.0   577.3   542.5
```

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[4361,]   460.3   353.3   328.0
[4362,]   735.8   475.0   533.0
[4363,]   259.5   167.0   187.5
[4364,]   214.0   156.3   167.0
[4365,]   406.0   263.0   298.0
[4366,]   252.8   271.0   201.5
[4367,]  2134.5  1362.3  1552.0
[4368,]   341.3   238.0   262.0
[4369,]   879.5   631.0   561.0
[4370,]   941.0   571.5   717.0
[4371,]   215.0   166.0   200.0
[4372,]   737.3   481.0   541.0
[4373,]   141.0    92.0   128.5
[4374,]   103.0    74.0    94.0
[4375,]   121.0    92.0   102.0
[4376,]   140.0   117.5   127.3
[4377,]   149.0   132.0   126.0
[4378,]   218.8   151.0   151.0
[4379,]   416.0   263.3   318.0
[4380,]   370.0   259.0   245.0
[4381,]  1562.0   915.5   990.0
[4382,]   945.0   550.0   562.3
[4383,]   790.0   480.0   481.0
[4384,]   253.3   183.3   227.0
[4385,]   163.0   119.0   147.3
[4386,]   167.0   110.0   146.0
[4387,]    85.8    70.3    89.0
[4388,]   100.0    78.0    80.8
[4389,]    97.0    73.0    78.0
[4390,]    95.3    68.3    85.0
[4391,]   108.0    76.0    93.5
[4392,]   157.0   105.0   119.0
[4393,]   199.0   135.0   137.0
[4394,]   161.0   118.0   139.8
[4395,]   394.0   261.0   307.0
[4396,]   204.0   153.3   176.0
[4397,]   134.0    96.0   129.5
[4398,]   179.0   123.0   161.8
[4399,]   162.0   104.3   131.5
[4400,]   105.8    72.0    86.0
[4401,]   127.0   100.0   111.5
[4402,]   737.0   504.5   476.8
```

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[4403,]   309.0   185.8   207.3
[4404,]   208.0   147.0   144.0
[4405,]   170.0   117.0   133.3
[4406,]   126.3    89.0   114.5
[4407,]   186.0   117.3   132.8
[4408,]   167.0   117.5   129.3
[4409,]   133.0    76.8    88.5
[4410,]   193.0   131.5   140.8
[4411,]   686.0   429.0   486.8
[4412,]   348.5   228.5   222.0
[4413,]   464.0   305.3   332.5
[4414,]   145.0    86.3   105.3
[4415,]   100.3    81.8    91.0
[4416,]   102.0    68.0    84.0
[4417,]   111.0    82.0    95.3
[4418,]   714.0   437.0   391.0
[4419,]  1771.0   992.5   912.0
[4420,]   273.0   203.3   214.0
[4421,]   340.0   237.0   297.0
[4422,]  4751.0  2979.0  3410.8
[4423,]   589.0   382.0   489.0
[4424,]   748.0   501.0   608.0
[4425,]   168.0   116.0   146.3
[4426,]   252.0   207.0   194.0
[4427,]   153.3    89.0   119.0
[4428,]   327.0   237.0   237.3
[4429,]   102.0    64.3    93.0
[4430,]   111.5    72.0   101.0
[4431,]   138.0    96.0   118.0
[4432,]   264.0   186.0   215.0
[4433,]   235.0   141.0   152.0
[4434,]    92.0    83.0    83.0
[4435,]   122.0    92.8    91.0
[4436,]   386.0   279.0   265.0
[4437,]   467.0   307.0   319.3
[4438,]   215.0   135.3   134.0
[4439,]  1135.0   730.0   609.0
[4440,]   176.8   118.0   116.0
[4441,]   185.0   129.0   158.0
[4442,]   149.0   104.0   140.0
[4443,]    94.8    77.3    85.3
[4444,]   161.0    99.0   115.0
```

```
[4445,]   611.0   387.0   392.0
[4446,]   549.8   377.3   394.0
[4447,]  1901.0  1173.0   842.0
[4448,]   389.0   281.0   264.0
[4449,]   663.3   464.8   514.8
[4450,]   809.0   565.0   802.0
[4451,]   143.5    95.3   123.3
[4452,]   165.3   140.5   168.3
[4453,]   159.3   104.0   137.0
[4454,]   120.3    86.5    97.3
[4455,]   127.8    99.0    93.3
[4456,]   147.0    98.3   116.5
[4457,]   103.3    77.0    95.3
[4458,]   518.5   320.8   387.3
[4459,]   118.0    81.3   108.8
[4460,]    93.3    68.0    86.3
[4461,]   237.8   145.3   147.5
[4462,]   135.0    95.0   110.0
[4463,]   112.5    75.0    88.0
[4464,]   143.5    83.0   108.3
[4465,]   114.3    74.0    95.0
[4466,]   122.0    75.0    87.0
[4467,]   122.0    93.3    89.0
[4468,]   105.8   172.0    97.3
[4469,]  5303.3  2749.0  2999.0
[4470,]   126.0   420.0   126.0
[4471,]  6864.3  4062.0  5850.5
[4472,]   181.0   213.0   125.0
[4473,]   149.8   120.8   101.0
[4474,]   256.5   212.0   220.0
[4475,]   568.3   385.0   410.0
[4476,]   294.0   283.0   228.0
[4477,]   313.5   305.0   199.8
[4478,]   769.0   586.0   543.0
[4479,]   386.0   348.8   270.0
[4480,]  2227.5  1416.0  1678.8
[4481,]  1833.0  1182.0  1177.0
[4482,]  1648.0  1203.0  1342.0
[4483,]   277.8   312.0   191.0
[4484,]   319.0   243.0   246.0
[4485,]   633.0   511.0   579.0
[4486,]   607.0   502.0   583.0
```

```
[4487,]   125.0   128.0   106.0
[4488,]   255.0   204.3   198.0
[4489,]   612.5   394.0   444.8
[4490,]   156.0   203.0   129.0
[4491,]   292.0   291.3   288.0
[4492,]   694.0   532.0   503.0
[4493,]   445.0   376.0   360.0
[4494,]   255.0   209.3   190.0
[4495,]   196.3   158.0   169.0
[4496,]   193.0   148.0   129.0
[4497,]   147.0   106.0   133.0
[4498,]   100.3    77.0    93.5
[4499,]   112.0    72.0    92.0
[4500,]   251.0   208.3   207.0
[4501,]    94.3    81.3    94.8
[4502,]   109.0    76.3    99.0
[4503,]   105.0    74.0    90.0
[4504,]   102.3    77.0    82.3
[4505,]   112.0    86.3    97.5
[4506,]   125.0   112.3   118.3
[4507,]   340.3   201.8   270.3
[4508,]   261.0   215.5   233.3
[4509,]   191.0   187.0   145.0
[4510,]   235.8   196.3   164.8
[4511,]   222.0   147.3   176.5
[4512,]   105.0    87.5    86.0
[4513,]   123.0   131.3   111.8
[4514,]   783.8   541.3   879.5
[4515,]   797.0   583.8   999.0
[4516,]   863.0   609.8  1032.3
[4517,]   132.8   120.8   120.5
[4518,]    86.0    82.3    76.3
[4519,]   124.0   126.0   114.0
[4520,]   783.5   572.3  1010.5
[4521,]   859.0   580.0  1089.3
[4522,]   901.0   511.0  1051.5
[4523,]   133.0   106.3   119.8
[4524,]    98.0   101.0    88.0
[4525,]   856.0   569.0  1058.0
[4526,]   116.3    99.0   110.8
[4527,]   127.0    94.0   104.0
[4528,]   135.0   106.0   114.0
```

```
[4529,]   889.0   602.5  1066.8
[4530,]    99.0    88.0    91.0
[4531,]   139.0   141.0   109.0
[4532,]   798.5   589.0   965.8
[4533,]   826.0   596.0  1012.0
[4534,]   914.0   572.0  1102.0
[4535,]   148.3   105.3   117.8
[4536,]   118.0    85.0    81.0
[4537,]   156.0   126.0   115.0
[4538,]   769.5   551.8   968.3
[4539,]   745.0   565.0   958.0
[4540,]   812.0   534.0  1082.0
[4541,]   125.3    93.5   113.5
[4542,]    91.0   127.0    78.0
[4543,]   854.0   602.0  1069.0
[4544,]   136.3   112.5   103.5
[4545,]   131.0   104.0   102.0
[4546,]   122.0   137.0   100.0
[4547,]   886.8   595.8  1046.3
[4548,]   112.0    78.0    80.0
[4549,]   128.0    92.0    98.0
[4550,]   112.3    99.5   106.0
[4551,]   756.0   494.0   998.0
[4552,]   143.0    92.0   103.0
[4553,]   120.0    89.5    91.3
[4554,]    95.3    90.0    73.0
[4555,]   906.0   565.0  1043.0
[4556,]   119.0   100.3   103.5
[4557,]   117.0    93.0   117.0
[4558,]   118.0    96.8   117.0
[4559,]   130.0    82.8   108.3
[4560,]    87.8    63.3    78.0
[4561,]    87.0    78.0    82.0
[4562,]   325.0   215.3   219.0
[4563,]   360.5   287.3   252.0
[4564,]   372.0   366.0   245.0
[4565,]   468.0   342.5   360.0
[4566,]   100.5   105.3    74.3
[4567,]   859.0   539.8   869.0
[4568,]   129.0    96.5   109.0
[4569,]   136.8   107.3   100.8
[4570,]   126.0   107.8   102.5
```

```
[4571,]   905.0   579.3  1052.0
[4572,]    81.3    82.3    81.8
[4573,]   127.0    95.0   102.0
[4574,]   718.0   575.5  1016.0
[4575,]   804.5   565.5  1022.8
[4576,]   869.0   587.3  1098.3
[4577,]   126.0   100.0   116.0
[4578,]    88.3    68.0    94.0
[4579,]   128.0   100.3    80.0
[4580,]   124.0    95.0    99.3
[4581,]   186.5   129.0   154.8
[4582,]   155.0   121.3   105.3
[4583,]   135.5   118.0   115.5
[4584,]    97.8   114.0    99.0
[4585,]   127.0   116.3   118.3
[4586,]   757.8   559.0   954.8
[4587,]   838.0   575.0  1070.8
[4588,]   884.5   604.8  1062.5
[4589,]   128.3   121.0   107.0
[4590,]   101.5    91.0    92.0
[4591,]   125.8   115.3   113.0
[4592,]   733.8   579.0   913.0
[4593,]   148.8   100.0   114.0
[4594,]   125.8    93.3   110.0
[4595,]   132.0    99.0   109.0
[4596,]    87.5    83.0    92.8
[4597,]   132.8   107.8   108.0
[4598,]   792.8   553.0   999.0
[4599,]   803.8   588.0  1062.5
[4600,]  1000.8   602.3  1105.0
[4601,]   124.3   102.0    99.0
[4602,]    87.0   104.0    84.8
[4603,]   994.0   603.0  1152.0
[4604,]   137.3   126.0   118.0
[4605,]   140.3   103.0    99.0
[4606,]   120.5    92.5   109.0
[4607,]  1042.8   677.0  1117.0
[4608,]    94.5    84.0    78.3
[4609,]   102.0    85.3    68.0
[4610,]    98.3    96.0    93.0
[4611,]   118.3    92.0    94.5
[4612,]   115.3    78.3    80.0
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[4613,]   111.5    87.0    94.0
[4614,]   114.5   109.0    89.0
[4615,]   188.8   170.0   152.8
[4616,]   149.3   153.8   112.0
[4617,]   190.3   362.3   141.0
[4618,]  9340.0  6685.3  8313.8
[4619,]  8412.0  5872.3  8364.0
[4620,]   182.3   247.0   127.0
[4621,]   117.5   135.0   106.8
[4622,]   121.0   118.0    98.0
[4623,]   125.3   124.5    94.0
[4624,]   200.0   163.0   174.3
[4625,]   249.5   205.0   205.0
[4626,]   258.0   219.8   199.0
[4627,]   967.5   650.3   674.8
[4628,]   570.0   548.3   483.0
[4629,]   693.5   544.5   610.0
[4630,]   280.5   246.8   196.3
[4631,]   248.5   248.5   225.0
[4632,]   291.3   236.3   274.8
[4633,]   132.3   179.5   115.0
[4634,]  2198.3  1668.8  1637.5
[4635,]  2486.5  1685.8  2072.0
[4636,]   424.3   369.0   314.0
[4637,]   215.5   229.0   146.8
[4638,]   653.0   496.3   290.8
[4639,]   119.0    87.0    98.8
[4640,]   100.5    70.0    86.0
[4641,]   103.0    83.5    89.8
[4642,]   127.0   111.0   100.8
[4643,]   522.5   419.0   353.3
[4644,]   396.0   333.3   264.5
[4645,]   978.0   614.0   441.3
[4646,]   352.3   348.0   250.0
[4647,]   673.0   636.5   426.3
[4648,]  1494.0  1148.0   911.5
[4649,]  1679.3  1315.0  1098.3
[4650,]  1464.0  1116.0  1186.5
[4651,]   189.0   200.0   160.3
[4652,]   137.5   210.0   117.5
[4653,]   879.0   570.5   539.0
[4654,]   190.0   178.0   151.3
```

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[4655,]   115.3    80.0    95.0
[4656,]   143.0   131.0   144.0
[4657,]   164.0   150.0   145.3
[4658,]   164.0   143.0   118.0
[4659,]   131.0   129.5   120.0
[4660,]   159.0   136.0   142.8
[4661,]   134.5   115.0   117.0
[4662,]   140.0   114.0   100.0
[4663,]   126.0   123.0   117.0
[4664,]   170.3   178.0   139.3
[4665,]   354.0   272.0   285.0
[4666,]   423.0   324.0   328.0
[4667,]   438.3   360.0   397.5
[4668,]   501.0   380.8   380.0
[4669,]   592.0   448.0   471.0
[4670,]   570.3   386.0   477.3
[4671,]   375.0   245.5   223.0
[4672,]   355.0   310.0   271.0
[4673,]  1034.0   725.5   835.8
[4674,]  1952.5  1327.5  1510.0
[4675,]  2588.0  1611.5  1934.0
[4676,]   405.0   289.3   304.3
[4677,]   401.3   351.0   385.0
[4678,]  1574.0  1095.8  1099.0
[4679,]   733.0   524.3   651.3
[4680,]   450.5   327.5   447.0
[4681,]   130.0   100.3   107.0
[4682,]   467.0   400.5   451.0
[4683,]   386.8   350.8   483.0
[4684,]   376.0   305.3   368.0
[4685,]   127.0    83.0   125.0
[4686,]   467.3   359.3   453.0
[4687,]   199.0   172.0   157.0
[4688,]   442.0   302.8   348.5
[4689,]   154.0   105.3   139.0
[4690,]   121.0    83.8   112.0
[4691,]   128.0    92.5   109.3
[4692,]   108.0    80.8    91.0
[4693,]   121.0    96.0   102.0
[4694,]   149.0   128.3   123.5
[4695,]   620.8   458.0   513.0
[4696,]   477.0   420.0   311.8
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[4697,]   654.0   460.3   379.3
[4698,]   604.8   447.0   420.8
[4699,]  1671.0  1191.0  1360.0
[4700,]   525.0   449.3   520.5
[4701,]  1153.5   789.0  1069.3
[4702,]   379.0   268.0   338.3
[4703,]   152.0   100.0   107.0
[4704,]   300.5   200.0   239.8
[4705,]   214.0   161.0   206.3
[4706,]   278.0   216.0   272.0
[4707,]   532.3   323.0   402.0
[4708,]   225.0   141.0   213.0
[4709,]   144.0    90.5   125.5
[4710,]   138.3   137.0   122.3
[4711,]   226.0   209.0   230.0
[4712,]   166.0   131.3   120.5
[4713,]   144.0   165.0   110.3
[4714,]  1954.5  1667.0  1932.3
[4715,]   105.0   112.3    81.3
[4716,]   141.0   133.0   135.0
[4717,]   106.0    80.0    88.0
[4718,]   132.0   164.5   117.0
[4719,]  3490.0  2515.0  2139.0
[4720,]  1119.0   899.0   882.0
[4721,]   503.0   350.8   288.0
[4722,]   551.0   380.0   367.5
[4723,]  6326.0  3839.0  4629.0
[4724,]   647.0   394.5   437.0
[4725,]   626.0   389.0   500.3
[4726,]   581.3   392.0   467.0
[4727,]   190.0   114.5   128.0
[4728,]  2192.0  1594.0  1947.0
[4729,]  2794.0  1944.0  1979.0
[4730,]  2199.0  1529.3  1907.0
[4731,]  7634.0  4952.0  6218.0
[4732,]   650.8   512.0   597.0
[4733,]   478.0   365.3   500.0
[4734,]   314.0   218.3   333.0
[4735,]   117.0    76.3    99.0
[4736,]   224.0   215.0   206.0
[4737,]   135.0   108.8   114.5
[4738,]   185.3   181.0   154.0
```

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[4739,]   321.0   275.3   334.0
[4740,]  3946.0  3163.8  4982.5
[4741,]  2834.3  1725.5  2167.0
[4742,]  1766.0  1394.0  1089.0
[4743,]   120.8    78.3    92.0
[4744,]   116.3    73.0    86.0
[4745,]   138.8    85.8   111.0
[4746,]  1242.3   893.0  1081.8
[4747,]   731.5   548.0   704.0
[4748,]   522.5   441.3   410.0
[4749,]   419.5   323.0   443.5
[4750,]   207.0   136.3   202.0
[4751,]   449.0   334.0   356.0
[4752,]   105.5    72.0    91.5
[4753,]   134.3    79.5   106.0
[4754,]   131.8    88.0   100.0
[4755,]   201.3   133.0   149.0
[4756,]   527.3   364.8   410.0
[4757,]   142.5   101.0   141.0
[4758,]   235.8   176.0   214.0
[4759,]   356.8   256.5   329.0
[4760,]   148.0   106.0   161.0
[4761,]   205.0   135.0   152.3
[4762,]   131.5   101.3   119.8
[4763,]   186.3   118.0   143.3
[4764,]   368.0   239.0   301.0
[4765,]   476.8   319.3   323.3
[4766,]   520.3   344.0   431.5
[4767,]   167.8   119.0   164.5
[4768,]   120.3    92.0   104.5
[4769,]   101.3    67.0    90.0
[4770,]   115.5    82.0    96.0
[4771,]   103.0    82.3    78.0
[4772,]  1006.0   636.0   561.8
[4773,]   130.5    97.0   115.0
[4774,]   246.0   195.5   229.0
[4775,]   449.0   329.0   354.8
[4776,]   154.0   101.0   125.0
[4777,]   375.5   274.3   364.5
[4778,]   134.3    88.0   123.0
[4779,]   185.5   138.0   174.0
[4780,]   141.3   101.8   118.3
```

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[4783,]   100.5    72.0    90.5
[4784,]   147.3    86.0   110.0
[4785,]    97.8    66.0    93.0
[4786,]   108.5    74.5    79.8
[4787,]   102.3    71.0    96.0
[4788,]   148.3   113.0   132.0
[4789,]   225.0   152.8   225.0
[4790,]   283.5   182.5   195.0
[4791,]   284.0   223.3   260.0
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[4793,]   111.0    75.8    82.0
[4794,]   112.3    83.0    96.0
[4795,]    98.5    69.5    88.0
[4796,]   103.5    69.3    85.0
[4797,]   102.3    69.0    85.0
[4798,]   105.0    77.3    97.3
[4799,]   535.0   360.3   497.0
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[4801,]   787.0   526.0   723.5
[4802,]   189.0   159.8   178.0
[4803,]   270.8   180.5   237.0
[4804,]   523.0   306.8   397.8
[4805,]   364.0   246.3   309.0
[4806,]   266.0   157.5   225.0
[4807,]    97.0    69.0    82.0
[4808,]    97.0    63.5    83.0
[4809,]   117.3    74.3    96.0
[4810,]   246.0   149.0   175.0
[4811,]   236.0   140.0   195.0
[4812,]   109.3    71.8    92.0
[4813,]   118.0    89.0   104.0
[4814,]   108.0    92.0   103.3
[4815,]   971.3   537.3  1268.0
[4816,]   265.0   145.0   200.0
[4817,]   200.0   126.0   169.3
[4818,]   159.8   118.3   167.0
[4819,]   256.0   169.0   204.0
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[4821,]  2300.3  1131.8  2106.0
[4822,]  1300.0   743.0  1251.0
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[4826,]   205.0   136.0   212.3
[4827,]   155.8    86.8   114.3
[4828,]   122.0    87.0   100.5
[4829,]   162.0   132.0   115.3
[4830,]   477.8   305.0   348.3
[4831,]   147.0    88.0   108.0
[4832,]   209.0   118.0   155.3
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[4836,]   322.0   179.3   327.5
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[4841,]   130.0    93.0   120.8
[4842,]   172.0   100.8   159.0
[4843,]   147.3    82.0   127.0
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[4850,]   122.0    87.5   106.0
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[4853,]   326.0   163.5   269.0
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[4857,]   123.0    82.5   124.0
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[4859,]   120.0    80.3   102.0
[4860,]   158.0    86.5   166.3
[4861,]   129.5    86.3    96.0
[4862,]   204.0   128.0   189.0
[4863,]   212.0   128.5   185.0
[4864,]   998.5   420.5   834.0
```

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[4870,]  8859.0  4517.0  6102.0
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[4872,]   359.0   224.0   333.0
[4873,]   170.0   107.0   147.0
[4874,]   345.8   190.5   261.0
[4875,]   328.0   229.0   352.8
[4876,]   554.0   329.0   475.0
[4877,]   151.8   131.8   147.0
[4878,]   213.0   146.0   161.3
[4879,]   415.0   289.0   362.0
[4880,]   896.5   512.3   608.0
[4881,]   157.0    97.0   122.8
[4882,]   323.0   251.0   306.0
[4883,]   229.0   138.3   194.0
[4884,]    96.0    65.0    91.3
[4885,]   104.0    71.0    85.0
[4886,]   645.8   403.0   439.0
[4887,]   200.0   130.0   176.0
[4888,]   115.0    82.0   101.3
[4889,]    89.5    74.0    85.3
[4890,]   108.0    83.0    99.0
[4891,]   145.0   126.0   143.5
[4892,]   129.5    95.5   117.3
[4893,]   112.0    75.0    89.0
[4894,]   453.0   377.0   465.5
[4895,]   103.5    70.3   102.3
[4896,]   119.0    72.0   100.3
[4897,]   117.0    80.0    99.0
[4898,]   131.3    82.0    90.0
[4899,]   494.0   421.0   517.0
[4900,]   673.0   424.0   492.3
[4901,]  1025.5   668.0   891.5
[4902,]  1254.0   863.0  1051.0
[4903,]   877.3   580.0   750.0
[4904,]   152.0   111.5   152.0
[4905,]   123.5    79.0   103.3
[4906,]   135.3    79.0   127.3
```

```
[4907,]   906.8   814.3  1003.5
[4908,]   184.5   118.3   195.0
[4909,]   113.5    78.3    90.3
[4910,]    92.0    65.5    92.0
[4911,]    91.3    62.3    75.0
[4912,]   135.0    91.5   133.0
[4913,]   120.5    82.0    94.0
[4914,]  1835.5  1657.8  2058.0
[4915,]  1563.8  1564.8  2535.3
[4916,]   191.0   145.3   173.0
[4917,]  2010.8  1482.0  1735.0
[4918,]  2621.0  1880.5  2640.3
[4919,]   753.5   503.8   723.0
[4920,]   175.8   121.8   152.0
[4921,]    95.3    68.3    92.5
[4922,]   181.5   152.0   166.0
[4923,]    86.5    66.3    97.0
[4924,]   159.0   108.8   123.3
[4925,]  2805.0  2166.3  2623.0
[4926,]   218.3   141.0   180.0
[4927,]   467.3   315.3   360.3
[4928,]   144.0   101.0   131.0
[4929,]   379.8   311.0   406.0
[4930,]   151.0   126.3   150.8
[4931,]    90.3    71.0    86.0
[4932,]    88.3    67.0    80.0
[4933,]   334.3   220.3   245.5
[4934,]  1200.5   777.0   618.0
[4935,]   318.0   213.0   229.0
[4936,]   283.5   215.8   240.5
[4937,]   129.5    94.0   106.0
[4938,]  1960.0  1364.0  1531.0
[4939,]   325.5   224.8   253.3
[4940,]   881.5   671.0   760.0
[4941,]   222.3   169.0   222.0
[4942,]   508.3   331.3   408.3
[4943,]   604.0   461.0   610.0
[4944,]  2104.5  1392.0  1654.0
[4945,]  1071.8   714.3   769.3
[4946,]   409.3   284.0   325.0
[4947,]   426.5   286.0   373.0
[4948,]   372.0   263.0   360.5
```

```
[4949,]  2972.5  2076.0  1961.0
[4950,]  1623.8  1099.0  1109.0
[4951,]   273.3   189.0   192.8
[4952,]  1064.0   733.0   911.3
[4953,]  3502.3  2437.0  3261.3
[4954,]   346.0   255.8   313.8
[4955,]   247.8   167.0   235.0
[4956,]   278.3   188.0   227.5
[4957,]   452.5   305.5   360.8
[4958,]   659.0   508.0   658.3
[4959,]   198.0   142.0   216.0
[4960,]   578.3   408.0   527.3
[4961,]   606.0   422.0   577.0
[4962,]   197.0   119.0   186.8
[4963,]   110.0    85.5   104.0
[4964,]   105.0    75.0    90.0
[4965,]   758.0   602.3   575.0
[4966,]   107.0    85.5    95.5
[4967,]   134.0    97.5   134.8
[4968,]    89.0    81.0    89.5
[4969,]  1043.8   946.5  1187.5
[4970,]   167.0   122.3   140.8
[4971,]   230.0   185.8   204.3
[4972,]  1506.5  1028.0  1322.8
[4973,]   290.0   236.3   263.8
[4974,]  1910.0  1435.8  1587.0
[4975,] 12542.0  8593.3 11790.0
[4976,]   261.0   152.0   184.3
[4977,]   247.0   161.5   201.0
[4978,]   606.0   443.3   503.0
[4979,]  3382.0  2396.3  2726.8
[4980,]   206.0   155.5   168.0
[4981,]   126.8    87.8   105.0
[4982,]   120.0   123.0   101.8
[4983,]   628.0   487.5   600.0
[4984,]  4948.0  3619.0  4764.0
[4985,]   667.0   456.0   644.0
[4986,]   249.0   179.3   241.0
[4987,]   202.0   151.0   170.0
[4988,]   107.0    73.0    94.0
[4989,]   119.0    85.5   102.0
[4990,]   121.8    86.0   106.0
```

```
[4991,]   181.0   128.0   150.8
[4992,]   176.0   148.8   152.0
[4993,]  1461.0  1025.0  1387.0
[4994,]   890.5   617.0   778.8
[4995,]   811.0   612.3   499.0
[4996,]   610.0   428.0   366.0
[4997,]    91.5    90.0   104.0
[4998,]   116.0    80.0    96.0
[4999,]   307.0   194.0   242.0
[5000,]   159.5   162.0   137.3
[5001,]  1879.0  1443.8  1620.0
[5002,]   147.0   109.0   131.0
[5003,]   528.3   329.0   387.0
[5004,]   171.0   149.3   140.0
[5005,]  1239.0   855.0  1018.0
[5006,]   210.8   159.0   176.0
[5007,]   207.0   172.3   164.5
[5008,]   421.0   355.0   346.0
[5009,] 18518.3 11714.0 18670.0
[5010,]   441.0   296.3   363.3
[5011,]   306.0   267.0   253.0
[5012,]   680.3   466.0   538.0
[5013,]   184.0   149.3   158.3
[5014,]   391.0   331.0   268.0
[5015,]   122.0    93.0   105.0
[5016,]   110.0    94.3   105.0
[5017,]   321.0   225.0   315.3
[5018,]   251.5   173.0   211.0
[5019,]   258.0   195.5   228.0
[5020,]   392.0   276.0   262.3
[5021,]   139.3   118.0   116.5
[5022,]   412.0   314.8   328.3
[5023,]   176.0   126.3   124.8
[5024,]   116.8    96.3    96.3
[5025,]   264.0   199.3   225.0
[5026,]   309.0   230.5   280.3
[5027,]   134.5    97.3   115.0
[5028,]   115.0    89.3    93.8
[5029,]    88.0    71.8    78.5
[5030,]    89.5    68.8    73.5
[5031,]   113.0    89.5   100.0
[5032,]   100.0    68.5    87.0
```

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[5033,]   259.0   214.3   235.5
[5034,]    98.3    76.3    94.3
[5035,]   152.0   112.8   131.3
[5036,]   132.0    82.5   123.3
[5037,]   192.0   122.3   143.0
[5038,]   133.0    92.5   122.0
[5039,]   352.0   296.3   346.0
[5040,]   228.3   139.3   184.3
[5041,]   295.0   213.3   245.0
[5042,]   244.0   145.3   163.0
[5043,]  1274.5   864.0   863.5
[5044,]  1943.0  1376.0  1548.0
[5045,]   434.0   347.8   395.0
[5046,]   147.0   124.0   157.3
[5047,]   162.0   108.0   123.0
[5048,]   880.0   599.0   586.0
[5049,]   155.3    98.0   140.5
[5050,]   143.0   111.0   145.0
[5051,]   102.0    78.8    97.0
[5052,]   406.5   274.0   276.3
[5053,]   191.0   144.0   181.0
[5054,]   105.0    85.5   121.0
[5055,]   207.0   165.0   160.0
[5056,]   176.0   129.0   167.0
[5057,]   907.0   642.3   660.0
[5058,]   199.8   155.0   178.0
[5059,]   674.0   514.0   433.0
[5060,]   649.0   451.3   400.0
[5061,]   472.5   335.0   361.0
[5062,]  2386.0  1779.0  2146.0
[5063,]  2277.0  1527.3  2088.0
[5064,]   402.3   266.0   318.0
[5065,]   236.3   157.0   170.5
[5066,]  1506.8  1039.3  1244.0
[5067,]   337.8   263.0   296.0
[5068,]   176.5   118.0   139.3
[5069,]   122.5    91.0   108.0
[5070,]   215.3   146.0   182.0
[5071,]  1072.3   818.0   933.5
[5072,]   132.0    95.3   131.0
[5073,]   693.3   607.0   709.0
[5074,]   435.0   420.0   504.3
```

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[5075,]  1355.5  1171.3  1434.0
[5076,]   577.3   392.0   336.0
[5077,]   106.8    77.0   104.8
[5078,]   121.0    96.0   110.0
[5079,]   178.0   121.0   154.0
[5080,]   168.8   122.0   138.3
[5081,]   415.0   316.3   314.8
[5082,]   692.3   509.0   491.8
[5083,]   188.3   126.0   177.5
[5084,]    94.5    72.3    86.8
[5085,]   141.0   110.3   118.0
[5086,]   102.3    70.3    81.0
[5087,]   105.8    75.8    79.3
[5088,]   187.3   138.3   173.0
[5089,]   265.8   179.3   187.8
[5090,]   125.8    90.0   148.0
[5091,]   949.0   564.0  1317.0
[5092,]   120.5   110.5   107.3
[5093,]   115.0    82.0   111.0
[5094,]   114.0    81.0    93.0
[5095,]   134.0   100.8    96.3
[5096,]   137.0   109.0   128.0
[5097,]   111.0   100.0    97.0
[5098,]   191.0   136.3   158.3
[5099,]   129.0   100.0   112.0
[5100,]   104.0    63.0    87.0
[5101,]   103.3    79.0    84.0
[5102,]   118.0    76.0    97.0
[5103,]   107.0    71.0    82.0
[5104,]   122.3    81.5    97.0
[5105,]   115.0    77.0   103.5
[5106,]   105.0    80.0   108.0
[5107,]   105.3    82.3    88.0
[5108,]   115.0    85.0    89.0
[5109,]   284.0   213.0   176.0
[5110,]   108.5   196.3    95.0
[5111,]  1678.0  1114.0  1252.8
[5112,]   190.0   169.0   137.0
[5113,]   122.0    82.0    93.0
[5114,]   124.8    93.0   101.3
[5115,]   231.0   161.0   198.0
[5116,]   137.0   104.5   102.0
```

```
[5117,]   132.0   116.0   111.3
[5118,]   287.0   216.0   210.0
[5119,]   155.0   203.0   146.0
[5120,]  1591.8  1083.5  1352.8
[5121,]   736.0   547.0   580.0
[5122,]  1364.0   947.5  1062.3
[5123,]   190.5   163.3   148.3
[5124,]   237.0   202.3   209.5
[5125,]   378.0   313.3   376.3
[5126,]   404.3   335.3   377.3
[5127,]   117.0   104.3    94.8
[5128,]   186.0   131.5   136.5
[5129,]   178.0   148.0   167.3
[5130,]   197.0   305.5   174.0
[5131,]  1078.0   732.3   799.5
[5132,]   669.8   500.3   449.3
[5133,]   446.0   305.0   338.8
[5134,]   212.0   157.0   181.3
[5135,]   146.8   102.3   107.0
[5136,]   112.0    77.0    99.3
[5137,]   116.0    88.0   107.5
[5138,]   103.3    74.5    96.3
[5139,]   107.0    72.0    94.0
[5140,]    99.0    80.0    94.0
[5141,]   105.3    73.0    89.3
[5142,]    92.0    74.3    86.8
[5143,]   107.0    85.0    77.5
[5144,]   104.8   101.0    92.5
[5145,]   106.0    94.3    84.0
[5146,]   119.0   112.0    99.0
[5147,]   143.3   206.0   108.5
[5148,]   145.0   263.5   122.0
[5149,]   158.0   247.0   152.0
[5150,]   295.5   263.0   267.3
[5151,]   277.0   216.5   240.0
[5152,]   104.0    82.0    80.0
[5153,]   112.0    87.0    91.0
[5154,]   109.3    79.0    84.0
[5155,]    95.0    76.0    85.0
[5156,]    98.0    84.0    73.0
[5157,]    87.8    80.0    78.3
[5158,]    92.0    77.0    77.0
```

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[5159,]    94.0    88.0    79.0
[5160,]    79.8    87.3    78.3
[5161,]    92.0    97.0    82.0
[5162,]    93.0    89.0    83.0
[5163,]    97.0    79.8    78.3
[5164,]    85.0    78.0    79.0
[5165,]    86.0    81.0    83.0
[5166,]    81.5    75.0    94.0
[5167,]    85.0    74.0    82.0
[5168,]    94.0    82.0    83.0
[5169,]    78.3    81.5    94.3
[5170,]    96.8    77.0    82.0
[5171,]    97.3    95.0    89.0
[5172,]    87.5   147.8    91.3
[5173,]    97.8   192.0    83.0
[5174,]   103.5   134.0    90.0
[5175,]   110.3    99.3    91.0
[5176,]   133.3   117.0    98.0
[5177,]   130.8   152.0    95.0
[5178,]   114.5   110.8   104.0
[5179,]    88.0    84.3    92.0
[5180,]    99.5    74.0    89.0
[5181,]    97.8    88.5    94.5
[5182,]    89.8    76.0    81.0
[5183,]    90.8    69.3    78.0
[5184,]    97.8    68.0    77.8
[5185,]   104.0    72.3    75.0
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[5187,]    91.5    74.5    72.5
[5188,]    93.5    67.5    76.3
[5189,]    87.3    72.0    79.0
[5190,]    94.3    77.0    83.0
[5191,]    85.5    77.0    79.3
[5192,]    95.5    76.0    74.0
[5193,]    88.0    72.0    88.3
[5194,]    90.5    81.3    96.5
[5195,]    77.3    92.5    88.0
[5196,]   100.3    81.3    86.5
[5197,]    98.0    67.0    78.3
[5198,]   108.3    76.0    85.5
[5199,]    83.0    78.3    92.0
[5200,]   108.5    72.0    77.3
```

```
[5201,]    89.3    79.5    81.0
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[5203,]   259.0   241.0   240.0
[5204,]   453.0   445.5   407.8
[5205,]  1388.8   825.0   885.8
[5206,]    98.0    78.0    79.8
[5207,]    97.8    67.0    77.8
[5208,]    92.3    77.0    78.0
[5209,]    96.8    89.0    86.3
[5210,]    93.3    94.5    83.0
[5211,]   101.5    87.0    87.0
[5212,]    93.5    83.0    73.3
[5213,]    94.3    85.0    82.0
[5214,]    96.5    87.0    84.0
[5215,]   103.3    84.0    85.0
[5216,]    95.0    77.0    92.0
[5217,]    94.0    83.0    82.0
[5218,]    91.5    91.0    90.3
[5219,]    93.8    96.3    80.0
[5220,]   127.5   119.0   116.0
[5221,]   157.3   112.0   111.0
[5222,]   129.5   118.5   118.0
[5223,]   133.0   126.0   117.0
[5224,]   109.8   110.0    93.8
[5225,]    91.0   107.3    94.0
[5226,]    97.0   100.0   101.0
[5227,]    92.5   100.0    87.5
[5228,]   100.0    89.3    84.0
[5229,]    93.0   129.0    90.0
[5230,]    91.3   188.0    79.5
[5231,]   102.0   217.8   103.0
[5232,]   106.0   148.0    89.0
[5233,]    99.0   101.0    91.3
[5234,]    95.0    85.3    88.0
[5235,]    99.0   114.0    83.0
[5236,]   106.0   112.5    80.0
[5237,]    89.3    86.3    87.0
[5238,]    92.0    84.8   100.0
[5239,]   106.0    76.5    93.0
[5240,]   104.8    75.5    89.0
[5241,]    96.0    76.5    89.0
[5242,]    79.0    78.5    90.3
```

```
[5243,]    90.3    73.3    78.0
[5244,]    89.0    79.3    88.0
[5245,]    94.0    76.3    82.3
[5246,]   108.5    71.8    75.0
[5247,]    98.0    75.5    84.0
[5248,]    88.0    75.3    80.5
[5249,]    89.3   115.8    76.0
[5250,]   105.0   147.3    99.0
[5251,]   102.0   137.3    94.3
[5252,]    97.3   110.0    80.5
[5253,]   100.0   111.3    78.0
[5254,]   107.0   115.5    99.8
[5255,]   104.5   111.3   109.0
[5256,]   120.0   141.0   102.3
[5257,]   532.0   538.5   422.3
[5258,]  2975.8  2276.0  2263.3
[5259,]  1327.0  1009.0  1163.5
[5260,]   132.0   159.3   114.3
[5261,]   117.8   148.0   103.8
[5262,]   116.0   185.0    93.8
[5263,]   139.0   220.3    99.3
[5264,]   182.0   209.0   164.5
[5265,]   238.0   209.0   198.8
[5266,]   382.0   291.0   315.8
[5267,]   412.5   326.0   345.8
[5268,]   237.0   288.0   255.0
[5269,]   226.0   249.0   202.0
[5270,]   155.0   235.0   172.3
[5271,]   187.0   234.0   186.3
[5272,]   241.0   197.5   225.0
[5273,]   145.0   159.0   118.0
[5274,]  1090.3   916.0   871.0
[5275,]  1041.0   729.5   836.0
[5276,]   232.0   251.0   227.8
[5277,]   153.0   166.0   136.0
[5278,]   182.0   155.0   131.0
[5279,]    88.0    80.0   101.3
[5280,]   119.5    64.0    95.0
[5281,]   115.0    65.0    95.0
[5282,]   103.0    85.0    93.3
[5283,]   164.3   132.0   136.0
[5284,]   271.0   225.0   220.0
```

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[5285,]   582.0   409.0   377.0
[5286,]   240.8   229.0   177.0
[5287,]   789.0   621.3   584.0
[5288,]  1035.0   881.0   792.0
[5289,]   394.5   378.0   275.0
[5290,]   283.0   302.5   236.0
[5291,]   123.0   172.0   104.5
[5292,]   100.5   165.0    94.0
[5293,]   437.0   374.0   344.0
[5294,]   203.0   160.3   185.3
[5295,]    99.0    95.8    90.0
[5296,]   111.0   101.3    97.0
[5297,]   169.0   135.3   130.5
[5298,]   151.0   106.0   123.0
[5299,]   126.0   103.0   107.0
[5300,]   122.0    93.3   122.0
[5301,]   111.0   100.3    84.0
[5302,]   107.0   110.5    80.0
[5303,]   123.0   109.5    97.0
[5304,]   199.0   191.3   157.0
[5305,]   491.0   393.8   414.0
[5306,]   414.0   265.5   343.0
[5307,]   250.8   292.5   218.3
[5308,]   730.0   621.3   585.0
[5309,]   707.0   521.8   592.0
[5310,]   790.3   504.8   599.0
[5311,]   372.0   233.8   265.0
[5312,]   290.0   290.3   249.0
[5313,]  1604.0  1372.3  1461.3
[5314,]  3733.8  2505.3  2984.5
[5315,]  1856.0  1307.0  1582.5
[5316,]   236.0   206.3   213.0
[5317,]   241.3   189.0   208.0
[5318,]   606.0   423.0   375.3
[5319,]   391.0   270.8   373.8
[5320,]   204.8   156.0   197.0
[5321,]   134.0    91.0   115.8
[5322,]   220.0   193.5   216.3
[5323,]   162.8   128.0   181.5
[5324,]   140.0   102.0   126.3
[5325,]   105.0    79.8   109.0
[5326,]   186.0   147.0   204.5
```

```
[5327,]   164.0   135.0   135.3
[5328,]   425.0   297.5   372.3
[5329,]   115.3    86.0   103.5
[5330,]   113.8    83.0   109.0
[5331,]   147.3   100.3   118.5
[5332,]   109.8    76.0   112.5
[5333,]   144.0    96.0   109.3
[5334,]   124.3    83.8   101.8
[5335,]   451.3   358.0   394.0
[5336,]   396.8   265.0   300.0
[5337,]   363.3   220.3   233.8
[5338,]   273.5   204.0   214.0
[5339,]   628.3   485.0   531.0
[5340,]   298.5   243.5   304.0
[5341,]   956.0   669.0   865.0
[5342,]   226.3   134.0   162.0
[5343,]   123.3    86.5   119.5
[5344,]   230.8   166.0   208.0
[5345,]   259.3   186.0   233.0
[5346,]   177.3   142.5   159.8
[5347,]   465.8   319.0   400.0
[5348,]   208.5   139.0   165.0
[5349,]   126.5    86.3    98.0
[5350,]   147.3   128.0   133.0
[5351,]   202.5   176.0   179.0
[5352,]   157.0   105.0   123.0
[5353,]   116.3    85.5   106.0
[5354,]   144.3   125.0   153.0
[5355,]    94.0    68.8    83.0
[5356,]    92.5    65.8    86.0
[5357,]   112.0    71.5    84.0
[5358,]   111.3   113.8    92.0
[5359,]   657.3   523.5   379.0
[5360,]   284.0   271.3   219.0
[5361,]   476.5   333.5   314.0
[5362,]   325.3   218.5   249.5
[5363,]   800.0   529.3   644.0
[5364,]   267.8   229.3   230.0
[5365,]  1256.0   780.8   918.5
[5366,]   480.3   310.8   372.0
[5367,]   175.8   126.0   146.0
[5368,]   920.0   674.5   787.8
```

```
[5369,]  1587.0  1035.5  1077.0
[5370,]   710.0   533.3   579.0
[5371,]  2385.8  1660.3  1717.0
[5372,]   469.0   364.0   477.0
[5373,]   388.0   276.3   355.0
[5374,]   290.5   226.0   304.3
[5375,]   105.8    77.3    91.0
[5376,]   114.5    81.0   103.0
[5377,]   137.0    92.0   102.0
[5378,]   123.0   105.3    98.5
[5379,]   210.5   159.0   184.3
[5380,]   858.5   728.0  1121.8
[5381,]  1385.3   910.0  1097.3
[5382,]   499.3   289.0   271.3
[5383,]   171.0   100.0   121.3
[5384,]   101.3    66.5    95.3
[5385,]   162.0   104.0   126.0
[5386,]  1128.0   783.0   978.3
[5387,]   820.3   508.5   703.8
[5388,]   148.0   102.0   108.5
[5389,]   351.0   246.0   336.3
[5390,]   133.8   102.0   144.5
[5391,]   103.0    79.0    88.8
[5392,]   104.0    70.0    69.3
[5393,]   110.0    74.3    84.3
[5394,]   118.0    74.0    92.0
[5395,]   112.0    84.0    89.0
[5396,]   490.0   326.0   379.3
[5397,]   147.5    94.0   161.0
[5398,]   149.0   108.0   140.8
[5399,]   271.0   201.5   262.3
[5400,]   150.5   106.0   146.0
[5401,]   222.0   148.0   225.0
[5402,]    93.0    76.3    99.0
[5403,]   242.8   151.0   200.0
[5404,]   149.0    99.0   119.0
[5405,]   215.0   151.3   192.0
[5406,]   305.0   186.0   267.0
[5407,]   133.0    83.0   114.0
[5408,]   107.0    68.0    89.3
[5409,]    90.3    65.0    85.0
[5410,]   103.0    69.0    86.0
```

```
[5411,]   109.0    78.0    89.5
[5412,]   381.0   250.0   300.0
[5413,]   146.0    96.0   147.0
[5414,]   144.0   100.0   111.3
[5415,]   122.3    96.5   121.0
[5416,]   177.0   120.0   157.0
[5417,]   230.0   167.0   201.8
[5418,]   112.5    81.3   110.0
[5419,]   212.0   140.3   183.0
[5420,]   127.0    68.3   101.0
[5421,]   136.3    93.0   139.0
[5422,]   106.0    72.5   102.0
[5423,]   111.0    71.5    95.5
[5424,]   100.0    60.8    88.0
[5425,]   109.0    60.0    94.0
[5426,]    98.0    71.3    89.3
[5427,]    98.3    68.3    85.0
[5428,]   104.0    60.0    82.0
[5429,]   113.0    74.3    93.0
[5430,]   104.0    82.0    87.0
[5431,]   102.0    68.0    77.0
[5432,]   100.0    65.3    80.5
[5433,]   108.0    72.0    82.0
[5434,]   113.3    75.5    92.0
[5435,]   114.0    68.0    99.3
[5436,]    95.0    69.0    90.0
[5437,]    91.3    71.8    87.0
[5438,]    97.0    70.0    83.5
[5439,]   293.0   198.0   275.0
[5440,]   376.5   254.5   325.0
[5441,]   345.0   256.0   308.5
[5442,]   136.0   104.0   144.0
[5443,]   298.5   226.5   314.5
[5444,]   249.0   154.0   209.5
[5445,]   575.0   304.0   496.3
[5446,]   183.3   110.0   134.5
[5447,]   102.0    77.0    75.3
[5448,]    94.0    75.0    82.3
[5449,]   117.0    85.3    97.8
[5450,]   284.0   168.0   257.0
[5451,]   217.0   125.0   219.8
[5452,]   105.8    70.0    77.5
```

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[5453,]   104.0    81.0    83.3
[5454,]   107.0    75.0    93.8
[5455,]   124.0    79.0   135.5
[5456,]   158.0    97.0   118.3
[5457,]   187.0   115.0   158.3
[5458,]   258.0   158.0   227.0
[5459,]   200.0   136.0   170.0
[5460,]   852.0   486.0   680.8
[5461,]  1453.8   748.5  1207.5
[5462,]  1596.0   847.0  1311.3
[5463,]   435.0   229.0   385.3
[5464,]   911.0   384.8   572.0
[5465,]   226.0   135.0   199.0
[5466,]   252.0   121.0   206.3
[5467,]   106.8    74.5    96.0
[5468,]   113.0    84.0    83.0
[5469,]   127.0   113.8   112.8
[5470,]   379.5   246.3   318.0
[5471,]   113.0    75.0   102.0
[5472,]   186.0   144.8   210.8
[5473,]   120.0    78.5    98.0
[5474,]   142.3   105.0   131.0
[5475,]   219.0   136.8   197.5
[5476,]   249.0   152.8   194.0
[5477,]   105.0    69.0    89.0
[5478,]   104.0    81.3    86.0
[5479,]    93.0    64.5   106.0
[5480,]   125.0    84.5   102.0
[5481,]   108.0    75.0   110.0
[5482,]   137.0    83.3   128.0
[5483,]   110.0    78.8   105.0
[5484,]    95.0    80.5    82.0
[5485,]    89.0    66.5    82.0
[5486,]   117.0    80.0    95.0
[5487,]   120.0    92.3   102.0
[5488,]  1760.0   451.0  1244.0
[5489,]   128.3    79.0   114.0
[5490,]   100.8    75.0    84.8
[5491,]   215.8   123.0   170.0
[5492,]   361.0   159.0   261.0
[5493,]   196.5   118.0   153.5
[5494,]   254.0   110.0   176.0
```

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[5495,]   219.0   119.0   198.0
[5496,]   224.8   117.3   213.0
[5497,]   107.3    76.0    94.0
[5498,]   109.0    82.0   103.0
[5499,]   113.3    69.0    96.0
[5500,]   133.5    91.0   113.0
[5501,]   117.3    83.0   120.0
[5502,]   237.8   138.0   220.0
[5503,]   405.0   191.0   343.5
[5504,]  1006.8   432.0   777.0
[5505,]   700.5   299.0   550.0
[5506,]   180.3    94.0   142.3
[5507,]   175.0   108.0   161.5
[5508,]   697.3   294.0   487.3
[5509,]   507.5   269.0   366.5
[5510,]  6273.8  2953.0  3401.8
[5511,]   477.3   271.8   392.5
[5512,]   217.8   144.0   205.8
[5513,]   182.3   123.0   158.0
[5514,]   437.0   260.5   335.3
[5515,]   414.8   289.0   397.0
[5516,]   671.8   388.0   604.5
[5517,]   169.3   100.0   129.8
[5518,]   166.3   115.0   135.3
[5519,]   226.3   144.0   225.8
[5520,]   175.0   107.8   141.3
[5521,]   135.3    87.0   107.3
[5522,]   177.3   124.0   133.0
[5523,]   226.3   157.3   183.5
[5524,]   107.5    71.0    85.3
[5525,]   100.0    66.0    85.0
[5526,]   216.0   142.3   144.0
[5527,]   203.8   143.0   151.3
[5528,]    96.0    66.3    93.0
[5529,]    94.5    70.5    82.0
[5530,]    89.8    69.5    76.3
[5531,]   100.3    77.3    93.0
[5532,]   107.8    77.3    98.0
[5533,]   100.0    70.0    77.3
[5534,]   259.8   215.0   222.0
[5535,]   110.3    69.3    89.0
[5536,]   102.0    72.3    82.5
```

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[5537,]   114.8    79.5    92.0
[5538,]   117.0    78.5    93.0
[5539,]   115.8    85.5   121.5
[5540,]   325.5   242.3   288.0
[5541,]   505.8   363.0   412.0
[5542,]   722.0   473.3   533.8
[5543,]   493.0   310.3   346.0
[5544,]   132.3    97.3   126.0
[5545,]   121.0    80.0    95.5
[5546,]   137.0    87.3   133.0
[5547,]   143.3   109.3   127.0
[5548,]   116.0    94.0   106.0
[5549,]   111.0    72.5    97.5
[5550,]    99.0    65.0    83.0
[5551,]    94.0    62.0    93.0
[5552,]   118.0    88.0   109.3
[5553,]    93.0    70.0    92.0
[5554,]   198.5   219.0   196.0
[5555,]   193.0   179.8   230.8
[5556,]   184.0   130.0   172.0
[5557,]   807.5   592.0   679.0
[5558,]  1889.0  1233.3  1573.5
[5559,]   864.0   589.0   738.0
[5560,]   224.5   187.0   218.0
[5561,]    94.0    68.5    79.8
[5562,]    91.0    74.0    92.0
[5563,]    87.5    69.0    80.0
[5564,]   136.0   101.3   108.5
[5565,]   438.0   344.0   371.0
[5566,]   186.3   126.0   165.0
[5567,]   247.0   174.8   195.5
[5568,]   182.0   117.0   149.0
[5569,]   119.8    73.0    89.0
[5570,]    99.0    73.3    82.8
[5571,]    87.0    68.0    71.3
[5572,]    92.3    72.0    80.0
[5573,]   108.0    77.3    89.5
[5574,]   298.0   207.0   179.0
[5575,]   183.8   120.0   143.0
[5576,]   162.0   114.8   119.0
[5577,]   138.0   105.0   125.3
[5578,]   551.8   396.0   423.8
```

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[5579,]   406.0   291.3   309.3
[5580,]   267.0   189.0   224.3
[5581,]   272.5   219.0   251.5
[5582,]   655.0   432.5   431.8
[5583,]   205.0   138.0   166.0
[5584,]   614.8   479.0   521.3
[5585,]   944.0   600.5   680.8
[5586,]   504.0   367.3   394.5
[5587,]   539.8   422.3   407.3
[5588,]  1023.0   651.3   686.3
[5589,]   837.0   546.5   482.3
[5590,]   683.5   493.8   447.5
[5591,]   146.0   105.3   115.8
[5592,]   876.0   628.0   639.0
[5593,]  1075.0   769.3   790.0
[5594,]   258.5   222.8   205.3
[5595,]   197.0   136.5   173.0
[5596,]   168.0   128.0   157.0
[5597,]   292.3   204.0   235.0
[5598,]   338.0   246.0   281.0
[5599,]   267.0   188.5   224.0
[5600,]   336.8   240.8   314.0
[5601,]   413.0   284.5   350.0
[5602,]   148.0    91.8   126.0
[5603,]   133.5    73.0    86.0
[5604,]    91.0    79.0    73.5
[5605,]   134.0   101.0   100.0
[5606,]   129.0    99.5   118.0
[5607,]   123.0    92.0   121.5
[5608,]   108.0    82.3    99.0
[5609,]   329.5   299.0   328.0
[5610,]   170.0   140.0   179.3
[5611,]   378.0   271.0   302.0
[5612,]   673.3   565.0   619.0
[5613,]   427.0   326.0   356.8
[5614,]  1316.0   864.0   989.0
[5615,]  5516.8  3666.0  4173.0
[5616,]   455.0   261.0   308.0
[5617,]   218.0   152.0   203.0
[5618,]   217.8   168.0   175.0
[5619,]   837.0   657.0   638.8
[5620,]   123.0    86.3   104.0
```

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[5621,]   119.0    90.0   104.0
[5622,]   125.0   117.0   108.3
[5623,]   516.0   379.0   403.0
[5624,]  1710.5  1198.0  1182.0
[5625,]   871.0   595.0   738.3
[5626,]   161.0   122.5   159.0
[5627,]   166.3   115.0   140.0
[5628,]   115.0    78.0    96.3
[5629,]   121.0    88.8   104.0
[5630,]   119.0    84.0   100.0
[5631,]   139.0   106.0   118.0
[5632,]   135.0   100.0   128.0
[5633,]   532.0   376.0   429.0
[5634,]   284.5   170.0   205.0
[5635,]   146.0   101.3   112.0
[5636,]   125.0    92.0    86.0
[5637,]   144.8    91.0   104.0
[5638,]   103.0    91.3   105.0
[5639,]   518.0   355.0   447.5
[5640,]   182.0   148.0   142.0
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[5642,]   128.0   103.0   104.5
[5643,]   585.0   374.0   420.0
[5644,]   218.0   178.3   173.5
[5645,]  1328.0   908.5   966.0
[5646,]   142.8    91.3   107.3
[5647,]   141.0   105.0   121.5
[5648,]   294.0   202.5   196.5
[5649,] 10603.8  6933.8  9356.8
[5650,]   467.5   271.0   357.5
[5651,]   166.3   141.0   148.8
[5652,]   843.3   661.3   699.3
[5653,]   160.0   105.8   130.0
[5654,]   173.5   119.3   146.0
[5655,]   122.0   107.0   134.3
[5656,]    94.3    77.0    86.5
[5657,]   129.0   114.3   132.0
[5658,]   159.8   123.0   146.0
[5659,]   144.3   102.8   130.0
[5660,]   145.3   117.0   118.0
[5661,]   103.8    92.3    95.0
[5662,]   443.0   290.8   287.5
```

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[5663,]   103.3    95.0   116.0
[5664,]   109.3    82.0   100.0
[5665,]   112.5    97.3   102.8
[5666,]   125.0    95.0    98.0
[5667,]   117.8   104.0   109.0
[5668,]    99.3    71.0    83.8
[5669,]    91.8    66.0    85.0
[5670,]    87.3    67.3    76.0
[5671,]    99.5    65.0    79.3
[5672,]   103.5    80.0    80.0
[5673,]   111.3    85.0    89.0
[5674,]   101.3    60.0    76.3
[5675,]   106.8    90.0    90.0
[5676,]   110.3    79.0    87.0
[5677,]    92.0    84.0    92.0
[5678,]   116.8    80.0    91.0
[5679,]   124.8   104.5   106.0
[5680,]   179.5   124.0   135.0
[5681,]   199.3   144.0   161.0
[5682,]   299.8   195.0   190.0
[5683,]   974.0   661.0   628.3
[5684,]  1194.5   774.0   812.0
[5685,]   202.3   176.5   170.0
[5686,]   148.3   125.0   160.8
[5687,]   116.8   100.0   112.0
[5688,]   433.3   272.5   247.0
[5689,]   215.0   145.0   162.3
[5690,]   130.5    91.0   123.0
[5691,]   103.0    79.8   110.0
[5692,]   402.5   228.0   253.5
[5693,]   346.0   238.0   240.0
[5694,]   127.0    97.3   113.0
[5695,]   117.0   103.0   113.0
[5696,]   132.5   101.0   110.0
[5697,]   199.8   155.8   192.0
[5698,]   218.5   162.0   178.0
[5699,]   184.0   146.0   139.0
[5700,]   346.3   229.5   191.3
[5701,]   219.0   174.0   207.3
[5702,]  1589.3  1163.3  1136.3
[5703,]  2431.0  1583.3  1702.3
[5704,]   218.0   135.5   139.0
```

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[5705,]   116.0    65.8    87.3
[5706,]   554.0   392.8   405.8
[5707,]   320.3   222.0   272.5
[5708,]   176.0   117.8   136.5
[5709,]   123.0    81.5   106.0
[5710,]   157.3   125.8   143.8
[5711,]   587.0   416.8   463.3
[5712,]   109.0    74.5    88.0
[5713,]   149.0   111.8   137.3
[5714,]   112.3    88.3   112.3
[5715,]   384.0   319.3   299.3
[5716,]   188.0   135.3   132.3
[5717,]   116.5    76.5    90.3
[5718,]   111.0    78.3    90.5
[5719,]   128.0    86.5   112.8
[5720,]   181.8   131.8   143.0
[5721,]   486.0   328.8   302.0
[5722,]   654.0   451.0   418.0
[5723,]   114.8    86.0   105.5
[5724,]    91.0    59.0    76.0
[5725,]   112.0    67.0    87.0
[5726,]    93.0    77.0    83.8
[5727,]    96.0    69.0    76.0
[5728,]   128.0    94.0   102.0
[5729,]   115.8    79.8    92.0
[5730,]   778.0   565.0   866.0
[5731,]   129.0   128.0   124.0
[5732,]   972.3   624.0   999.5
[5733,]   101.0    84.0    88.0
[5734,]   173.0   117.0   154.0
[5735,]   130.8   138.3   144.5
[5736,]  1757.0  1114.0  1623.0
[5737,]   228.0   188.0   186.0
[5738,]   174.0   113.5   126.0
[5739,]   143.0    88.0   109.0
[5740,]   141.0    93.5    99.0
[5741,]   104.3    73.5    83.3
[5742,]   130.0    88.8    91.5
[5743,]   102.0    76.5    90.5
[5744,]   129.3    85.5   110.0
[5745,]   115.0    74.8    89.3
[5746,]   112.0    92.5   100.8
```

```
[5747,]   222.3   152.3   160.3
[5748,]   102.0    74.8    85.0
[5749,]    97.0    76.0    94.3
[5750,]   107.5    82.3    90.3
[5751,]   238.0   228.3   194.3
[5752,]   284.0   254.0   265.3
[5753,]   114.0    90.3   110.5
[5754,]   136.3   104.8   114.5
[5755,]   124.0    94.0   112.5
[5756,]   114.8    86.3   115.5
[5757,]   122.3    86.0    99.3
[5758,]   216.8   184.3   178.3
[5759,]   344.3   402.5   372.3
[5760,]  3070.8  2322.0  3952.5
[5761,]  1020.3   744.0   753.3
[5762,]   506.3   384.8   415.0
[5763,]   149.3   118.0   122.0
[5764,]   154.3   119.0   132.0
[5765,]   109.0    89.3   109.0
[5766,]   126.5   113.0   114.5
[5767,]   113.0   113.0   100.0
[5768,]   415.0   307.8   384.0
[5769,]   450.8   324.0   428.0
[5770,]   132.5   127.0   117.0
[5771,]   423.0   296.3   304.0
[5772,]   145.5   134.0   114.0
[5773,]   203.5   184.0   194.0
[5774,]   137.0   110.8   126.0
[5775,]   116.3    95.0   106.3
[5776,]   120.8   102.0    99.0
[5777,]   256.3   185.3   249.0
[5778,]   187.3   130.0   137.3
[5779,]   111.3    82.0    88.0
[5780,]   113.0    82.3    91.0
[5781,]    93.8    74.0    90.3
[5782,]   101.3   105.0    95.0
[5783,]   356.8   268.3   321.0
[5784,]  1022.3   664.0   776.8
[5785,]   314.8   244.0   233.0
[5786,]   627.5   475.0   538.0
[5787,]   130.5   322.0   116.5
[5788,]  3453.5  2285.8  2235.0
```

```
[5789,]  3388.5  2028.0  2489.0
[5790,]   416.0   304.0   305.8
[5791,]   224.5   166.3   166.0
[5792,]   196.3   144.0   163.0
[5793,]   128.3   118.0   108.0
[5794,]   726.3   459.8   519.3
[5795,]   118.5    80.0    98.0
[5796,]   115.5    85.0   102.0
[5797,]   172.5   129.0   126.5
[5798,]   454.5   358.0   315.0
[5799,]   200.0   165.8   170.0
[5800,]   382.3   303.3   260.8
[5801,]   146.3   138.8   106.0
[5802,]   569.5   411.8   465.0
[5803,]   134.3   110.3   116.0
[5804,]   115.0   106.5    94.0
[5805,]   590.8   389.5   447.5
[5806,]   138.5    92.0    98.5
[5807,]   120.3   108.3   110.3
[5808,]   126.5    90.3   112.0
[5809,]   159.5   102.5   116.3
[5810,]   232.0   161.3   175.8
[5811,]   162.0   157.5   120.0
[5812,]   214.5   263.8   146.5
[5813,]   636.0   603.5   539.0
[5814,]  3367.0  2122.8  2209.3
[5815,]   259.3   295.8   159.3
[5816,]  9920.0  6196.0  8312.0
[5817,]  2027.0  1179.3  1138.5
[5818,]   704.3   399.5   426.8
[5819,]   318.0   205.0   242.3
[5820,]   159.0   137.0   130.0
[5821,]   115.3    98.3    98.8
[5822,]   125.0    95.0   111.8
[5823,]    97.0    71.0    85.3
[5824,]   103.3    69.5    86.3
[5825,]   111.0    84.0    79.0
[5826,]   104.0    90.0    94.0
[5827,]   126.3   111.0   102.5
[5828,]   151.0   156.0   128.0
[5829,]   342.0   230.0   216.0
[5830,]   224.3   179.0   152.3
```

```
[5831,]   247.0   181.0   179.0
[5832,]   255.0   159.0   213.0
[5833,]   190.0   206.5   158.0
[5834,]   742.0   624.0   501.0
[5835,]  2469.0  1304.0  1441.0
[5836,]   601.0   379.0   447.5
[5837,]   196.5   141.0   150.0
[5838,]   154.0   147.0   121.0
[5839,]   193.0   163.0   182.0
[5840,]   676.3   406.0   390.0
[5841,]   237.0   173.0   190.0
[5842,]   377.0   237.3   389.0
[5843,]   140.3    87.0    96.3
[5844,]   130.0   103.5    98.0
[5845,]   149.0   108.0   111.0
[5846,]   536.5   380.0   322.0
[5847,]   377.0   259.3   268.0
[5848,]   243.0   157.0   152.0
[5849,]   340.0   274.0   254.0
[5850,]  1575.0  1038.0  1066.0
[5851,]   508.0   328.0   307.0
[5852,]   263.8   410.0   200.8
[5853,]  1803.0  1056.8  1273.0
[5854,]   716.0   419.0   458.0
[5855,]   203.5   153.0   140.8
[5856,]   234.0   180.5   178.0
[5857,]  1289.0   807.5   863.0
[5858,]   325.5   238.8   222.0
[5859,]   521.0   425.3   475.0
[5860,]   333.0   238.3   254.0
[5861,]   120.3   132.3    94.5
[5862,]   179.0   193.5   199.0
[5863,]   153.0   168.0   138.0
[5864,]   164.5   149.0   130.3
[5865,]   127.0   124.5    95.0
[5866,]   144.0   120.0   113.0
[5867,]   104.5    96.3    85.5
[5868,]   138.0   139.3   109.0
[5869,]   219.0   252.3   180.8
[5870,]   153.0   374.3   129.0
[5871,]  9367.0  5730.8  7516.0
[5872,]   176.0   173.0   107.5
```

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[5873,]   135.0   106.3   110.0
[5874,]   117.5   120.5    94.3
[5875,]  4261.0  2569.3  3465.5
[5876,]   190.0   148.0   156.3
[5877,]   117.0   105.5   111.3
[5878,]   131.0    97.0   116.8
[5879,]   156.0   108.0   139.0
[5880,]   105.5    85.5    85.5
[5881,]   155.0   133.0   116.8
[5882,]   250.0   166.0   218.5
[5883,]   204.0   149.3   152.0
[5884,]   141.0   109.0   131.3
[5885,]   111.0    87.0   107.8
[5886,]   155.3   104.3   115.0
[5887,]   122.0    94.0    95.3
[5888,]   110.0    96.0    94.0
[5889,]   112.5   144.5    88.5
[5890,]   340.0   416.0   305.0
[5891,]   876.0   904.0   712.0
[5892,]  3455.0  2240.5  2697.0
[5893,]   598.0   399.0   484.0
[5894,]   176.0   122.0   154.0
[5895,]   378.0   266.0   286.3
[5896,]   239.0   199.0   199.0
[5897,]   125.0   146.0    89.0
[5898,]   141.0   200.8   120.3
[5899,]   125.0   178.0   110.0
[5900,]   164.0   149.5   140.0
[5901,]   166.8   201.0   145.3
[5902,]   770.0   707.0   579.0
[5903,]  1358.0  1147.8  1178.0
[5904,]  1310.8  1128.0  1237.3
[5905,]  1046.0   777.0   887.0
[5906,]   247.0   233.5   180.0
[5907,]  2419.5  1593.0  1723.3
[5908,]   354.0   402.0   241.0
[5909,]  4706.0  3202.8  3513.0
[5910,]   225.3   337.0   193.5
[5911,]   483.0   527.0   395.0
[5912,]   800.0   644.5   679.0
[5913,]   373.0   350.0   312.0
[5914,]  2279.8  1441.0  1729.0
```

```
[5915,]  1286.0   956.3  1097.0
[5916,]   673.0   526.3   436.3
[5917,]   472.5   340.3   423.0
[5918,]   541.8   387.8   399.0
[5919,]   204.0   139.0   162.3
[5920,]   105.5    83.0    91.0
[5921,]   106.3    83.5    89.0
[5922,]   124.3    89.3    97.0
[5923,]   161.0   123.3   132.0
[5924,]   304.8   208.5   214.0
[5925,]   121.3    91.3    86.5
[5926,]   126.5   116.5   105.0
[5927,]   119.0   121.0   103.0
[5928,]   161.0   197.8   145.8
[5929,]   487.8   434.5   310.0
[5930,]  1142.5   852.0   778.0
[5931,]   236.0   234.8   176.3
[5932,]   136.5   162.3   126.0
[5933,]   158.5   208.0   136.0
[5934,]   711.0   586.0   689.0
[5935,]   148.5   150.0   152.3
[5936,]   592.3   461.5   523.0
[5937,]   142.8   109.0   122.3
[5938,]   114.5    88.0    90.5
[5939,]   116.5    83.5   113.5
[5940,]   122.5    88.0   106.8
[5941,]   119.8   107.0   130.8
[5942,]   199.5   116.0   117.0
[5943,]  1003.0   706.0   739.8
[5944,]   125.8    98.0   106.5
[5945,]   265.8   203.5   253.0
[5946,]   114.5   102.0    85.5
[5947,]   975.3   681.0   920.0
[5948,]   280.8   252.0   256.0
[5949,]  1725.0  1041.0  1201.0
[5950,]   542.5   385.0   489.5
[5951,]   518.0   314.0   400.5
[5952,]   171.3   117.0   143.0
[5953,]   143.0   157.0   111.5
[5954,]   589.0   520.5   445.0
[5955,]   727.3   476.0   534.0
[5956,]  1915.8  1211.0  1496.3
```

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[5957,]   581.0   368.8   459.0
[5958,]   252.0   153.0   171.0
[5959,]   226.0   155.0   141.3
[5960,]   200.5   160.0   168.0
[5961,]   340.5   225.0   254.0
[5962,]   131.3   115.5   142.5
[5963,]   250.5   215.0   271.0
[5964,]   177.8   119.0   159.0
[5965,]   125.5   106.8   119.0
[5966,]   151.0   107.0   120.0
[5967,]   163.3   134.0   127.0
[5968,]   163.5   101.3   120.5
[5969,]   395.5   285.0   302.0
[5970,]   486.0   285.0   337.0
[5971,]   142.0    96.3   114.0
[5972,]   187.8   122.0   155.0
[5973,]   122.0    83.5   117.0
[5974,]   142.0    86.3   114.5
[5975,]    97.5    65.3    81.0
[5976,]   106.0    75.3    91.0
[5977,]   255.0   179.3   205.8
[5978,]   136.8    91.5   101.0
[5979,]   409.0   287.3   333.0
[5980,]   223.0   142.3   188.3
[5981,]   220.3   165.8   193.0
[5982,]   144.0    86.0   104.0
[5983,]   103.0    71.5    88.3
[5984,]   102.0    77.8    90.0
[5985,]   217.0   180.5   187.0
[5986,]   125.0    94.0   132.3
[5987,]   108.3    75.5    84.0
[5988,]   143.0    93.5   111.0
[5989,]   139.0    93.0   123.0
[5990,]  1269.5  1014.8  1049.3
[5991,]   157.0   111.3   142.0
[5992,]   152.0   111.5   125.0
[5993,]   189.0   132.0   137.0
[5994,]   240.8   170.0   216.0
[5995,]   145.0   105.3   131.0
[5996,]   111.0    65.0    79.8
[5997,]   118.0    66.0    97.3
[5998,]   103.0    69.5    90.3
```

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[5999,]   109.0    90.0    89.5
[6000,]   204.8   158.0   175.5
[6001,]   139.0    95.3   102.3
[6002,]   220.0   152.0   126.8
[6003,]   276.3   245.0   166.3
[6004,]   398.0   372.3   316.0
[6005,]   646.0   477.0   538.0
[6006,]   174.3   127.0   129.5
[6007,]   410.0   371.3   423.0
[6008,]   406.0   391.0   496.3
[6009,]   422.8   362.0   549.8
[6010,]   355.0   302.3   279.3
[6011,]   293.0   176.0   213.3
[6012,]   146.5   111.0   115.3
[6013,]   162.0   112.0   133.0
[6014,]   160.0   120.0   124.5
[6015,]   255.3   193.0   298.5
[6016,]   242.0   156.8   272.3
[6017,]   124.0    76.0   100.3
[6018,]   160.8   107.8   138.0
[6019,]   372.0   292.0   354.0
[6020,]   111.0    81.0    90.3
[6021,]   113.3    77.5    86.0
[6022,]   118.0    83.0    96.0
[6023,]   258.0   192.0   264.5
[6024,]   162.5   112.0   138.0
[6025,]   167.0    93.0   105.0
[6026,]   331.0   244.0   300.5
[6027,]   201.3   128.0   146.0
[6028,]  1121.0   749.0   833.0
[6029,]  1412.0  1143.0  1447.0
[6030,]   119.3    75.3   105.0
[6031,]   198.0   193.0   279.0
[6032,]   119.0    75.3    80.3
[6033,]   276.0   224.5   268.0
[6034,]   117.5    91.3   127.0
[6035,]   844.0   744.3  1164.0
[6036,]   207.0   196.8   230.0
[6037,]   208.3   179.5   257.0
[6038,]   164.0   121.0   160.0
[6039,]   496.0   342.0   413.3
[6040,]   714.3   523.0   611.0
```

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[6041,]   292.0   208.0   311.0
[6042,]   152.0   102.5   134.0
[6043,]   162.3   105.5   131.0
[6044,]   160.0    97.0   121.0
[6045,]   135.0    94.0   122.0
[6046,]   111.8    67.0    91.0
[6047,]   177.0   100.3   142.0
[6048,]   117.0    75.8    95.3
[6049,]   157.8    97.5   131.0
[6050,]   654.0   511.3   688.0
[6051,]   122.0    74.8    87.0
[6052,]   424.5   308.0   344.0
[6053,]  1030.0   776.0   918.0
[6054,]   165.0   100.5   128.0
[6055,]   232.3   165.0   181.0
[6056,]   166.0   121.0   161.0
[6057,]   372.0   259.5   261.3
[6058,]   349.5   276.0   300.0
[6059,]   112.0    69.0    93.0
[6060,]   159.0   126.3   201.5
[6061,]    98.5    63.0    82.3
[6062,]   188.0   114.0   132.8
[6063,]   101.0    73.3    80.8
[6064,]   174.5    91.0   117.0
[6065,]   120.0    80.0    97.3
[6066,]   118.0    80.8   111.3
[6067,]   194.3   110.0   164.0
[6068,]   108.0    68.0    78.0
[6069,]   109.0    71.0    77.3
[6070,]    92.3    69.0    82.0
[6071,]    92.0    68.0    93.3
[6072,]   101.0    66.8    86.0
[6073,]   108.0    68.0    95.5
[6074,]   102.3    68.0    91.8
[6075,]    87.0    66.0    80.0
[6076,]   328.8   245.0   340.5
[6077,]   184.3   119.3   153.8
[6078,]   495.0   302.0   439.8
[6079,]   892.3   532.0   787.0
[6080,]   426.5   280.0   416.3
[6081,]  1166.8   603.0   975.0
[6082,]   139.3    90.0   105.0
```

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[6083,]   581.3   334.3   530.0
[6084,]   314.8   156.0   208.8
[6085,]   627.0   320.0   466.0
[6086,]   255.8   142.0   176.0
[6087,]   286.0   145.0   227.0
[6088,]   101.0    64.0    78.0
[6089,]   104.0    74.3    89.0
[6090,]   117.0    72.3    94.0
[6091,]   104.0    76.3    99.5
[6092,]    99.0    72.5    89.0
[6093,]   149.3   102.0   129.0
[6094,]   121.8    86.3   105.3
[6095,]   102.3    72.0    84.0
[6096,]   107.5    74.0    89.0
[6097,]   151.5    97.3   131.5
[6098,]   147.0    85.5   119.0
[6099,]   124.8    74.8    96.0
[6100,]    98.5    76.8    87.0
[6101,]   365.0   246.5   743.0
[6102,]   107.0    75.5    97.0
[6103,]   157.5    85.0   126.3
[6104,]  1427.3   667.3  1390.0
[6105,]   123.5    76.8   101.0
[6106,]   181.3   100.5   151.3
[6107,]   157.3   103.8   151.0
[6108,]   455.8   228.8   438.0
[6109,]   128.0    82.0   103.3
[6110,]   416.0   190.0   377.0
[6111,]   126.8    81.0   125.0
[6112,]   295.0   160.0   247.0
[6113,]   160.5   104.3   152.0
[6114,]   163.0   103.0   171.0
[6115,]  9088.3  4028.0  9570.8
[6116,]   120.8    83.3   117.0
[6117,]  1033.8   582.0  1075.0
[6118,]   130.0    79.0   103.3
[6119,]   148.3    85.3   153.0
[6120,]   238.5   106.0   210.0
[6121,]   112.8    69.0   104.8
[6122,]   135.8    90.8   133.0
[6123,]    91.8    66.0    90.0
[6124,]    94.0    76.0    94.3
```

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[6125,]   254.8   115.0   320.5
[6126,]   705.8   227.0   636.3
[6127,]   135.5    72.0   102.0
[6128,]   365.3   124.5   326.0
[6129,]   108.3    77.0    77.8
[6130,]   107.0    72.0   123.3
[6131,]  1221.0   494.8  1377.8
[6132,]    99.0    77.0    84.0
[6133,]   116.0    78.0    99.3
[6134,]   106.0    70.3    89.3
[6135,]   124.0    85.0   103.5
[6136,]   454.0   186.3   349.3
[6137,]   525.0   317.0   460.3
[6138,]   486.8   307.0   454.0
[6139,]   166.0   109.5   150.8
[6140,]   362.0   282.0   386.3
[6141,]   169.0   100.0   141.0
[6142,]   135.0    81.0    97.5
[6143,]   515.0   244.0   383.5
[6144,]   503.8   239.0   467.5
[6145,]   211.0   111.3   168.0
[6146,]   126.0    79.0   110.3
[6147,]   224.0   124.0   196.0
[6148,]   535.0   279.3   490.0
[6149,]   472.0   272.3   427.3
[6150,]   802.5   422.0   677.0
[6151,]   923.0   476.8   823.0
[6152,]   747.0   460.0   647.5
[6153,]  6594.0  3258.5  6470.0
[6154,]   211.5   157.5   230.0
[6155,]   311.0   196.0   277.0
[6156,]   828.0   459.3   686.0
[6157,]   308.0   178.5   244.0
[6158,]   237.0   130.3   184.5
[6159,]   233.0   159.8   238.0
[6160,]   108.5    78.0    93.0
[6161,]   195.0   139.3   174.3
[6162,]   920.0   526.3   805.0
[6163,]   474.3   292.3   436.0
[6164,]  1162.0   733.5  1102.8
[6165,]   497.0   307.0   452.0
[6166,]   133.8    88.3   120.0
```

```
[6167,]   249.0   177.0   241.8
[6168,]  2649.0  1757.0  2284.0
[6169,]   193.8   125.0   162.0
[6170,]   119.0    78.0    91.8
[6171,]   109.0    79.0    90.0
[6172,]   155.0   104.3   154.0
[6173,]   113.0    76.0   103.0
[6174,]   104.0    63.0    86.0
[6175,]   108.8    66.3    87.0
[6176,]   100.0    74.0   108.8
[6177,]   638.0   455.0   649.0
[6178,]   104.5    68.3    99.0
[6179,]   120.0    81.0    95.8
[6180,]   179.0   135.0   151.0
[6181,]  1965.8  1448.0  2083.0
[6182,]   120.0    85.0   101.8
[6183,]   242.0   157.0   208.0
[6184,]  1505.8   999.8  1192.0
[6185,]  1340.0   817.0  1074.0
[6186,]  1501.0   927.0  1468.3
[6187,]   257.3   178.8   277.0
[6188,]   642.0   466.0   563.0
[6189,]    96.0    77.0    98.3
[6190,]   136.3    95.5   135.5
[6191,]   115.0    86.0    97.8
[6192,]   104.0    71.5    94.3
[6193,]   110.0    70.0    93.3
[6194,]   201.8   149.0   178.5
[6195,]   166.0   109.0   117.3
[6196,]   730.0   502.0   534.8
[6197,]  1013.5   588.0   783.5
[6198,]   733.0   479.0   623.0
[6199,]   384.0   246.0   383.8
[6200,]  1006.3   699.0   994.3
[6201,]   102.0    70.8    95.3
[6202,]   119.0    87.0   126.5
[6203,]   164.8   126.0   136.3
[6204,]   180.0   125.0   168.5
[6205,]   192.0   153.0   173.3
[6206,]   183.0   139.5   157.8
[6207,]   261.0   188.5   243.5
[6208,]   157.0   125.0   146.3
```

```
[6209,]   408.3   319.3   373.3
[6210,]   151.0   122.5   156.0
[6211,]   102.0    69.5    75.0
[6212,]   100.3    74.0    87.0
[6213,]   222.0   151.5   225.3
[6214,]   158.0   129.5   184.0
[6215,]    98.0    76.3   100.0
[6216,]   256.0   201.3   233.3
[6217,]   128.0    86.0    94.0
[6218,]   255.0   220.3   231.0
[6219,]   127.0   108.3   128.5
[6220,]   918.0   556.0   682.0
[6221,]  1376.5   925.3  1019.0
[6222,]  1004.0   683.5   813.0
[6223,]   143.0   129.0   133.0
[6224,]   349.0   228.0   284.0
[6225,]  1627.0  1163.3  1384.8
[6226,]  1410.0  1075.0  1333.0
[6227,]   172.0   152.0   153.0
[6228,]  1775.0  1182.0  1301.5
[6229,]  1653.0   973.0  1408.0
[6230,]   201.0   143.0   192.0
[6231,]   240.0   134.0   187.3
[6232,]   483.0   383.0   529.0
[6233,]   378.0   274.0   318.0
[6234,]   308.8   193.3   209.0
[6235,]   376.0   266.0   311.5
[6236,]   331.8   230.0   300.0
[6237,]  1108.3   773.3   926.0
[6238,]  1388.5   847.0  1035.5
[6239,]  1188.5   939.0  1119.0
[6240,]  4210.5  2806.3  3157.0
[6241,]  1041.5   666.0   984.3
[6242,]   568.8   398.0   577.0
[6243,]   384.8   284.0   377.0
[6244,]   116.3    91.0   109.5
[6245,]   144.3   127.0   127.0
[6246,]   728.0   451.3   606.0
[6247,]   509.5   357.0   518.3
[6248,]   125.3    99.0   115.0
[6249,]   156.0    98.0   121.0
[6250,]   295.5   231.0   257.5
```

```
[6251,]   116.5    90.8    95.0
[6252,]  1666.3  1078.0  1388.0
[6253,]  1141.3   796.0   916.5
[6254,]  1725.5  1089.8  1350.3
[6255,]   492.8   338.0   408.5
[6256,]   596.3   387.0   551.0
[6257,]  2700.3  2038.8  2927.0
[6258,]   104.8    93.0    95.3
[6259,]   178.0   123.0   158.0
[6260,]   599.5   464.5   531.0
[6261,]   364.5   295.0   320.0
[6262,]  2847.0  2164.0  3090.8
[6263,]  1182.5   831.8  1165.8
[6264,]   448.8   324.5   369.0
[6265,]   167.5   116.3   136.0
[6266,]   588.3   511.8   678.0
[6267,]   125.8    96.0   107.5
[6268,]    91.0    67.5    79.3
[6269,]   120.0    81.0    81.5
[6270,]   308.3   208.8   272.0
[6271,]   113.0    74.0    80.5
[6272,]    93.0    66.0    90.5
[6273,]   277.8   215.5   244.3
[6274,]   431.8   306.0   384.3
[6275,]   331.3   218.5   279.0
[6276,]   454.0   328.5   412.0
[6277,]   811.3   586.0   714.5
[6278,]   418.3   310.0   417.0
[6279,]   162.3   128.0   139.0
[6280,]   150.3   114.0   143.8
[6281,]   356.0   247.3   292.0
[6282,]   179.3   115.5   143.0
[6283,]   240.8   193.3   217.8
[6284,]   313.5   199.5   267.0
[6285,]   122.3   100.0   116.0
[6286,]   117.0    84.0    97.0
[6287,]  2902.8  2080.3  2665.8
[6288,]  2118.5  1380.0  1746.0
[6289,]  1437.3   891.0  1122.0
[6290,]  1216.0   868.5   949.8
[6291,]  1997.0  1263.0  1570.0
[6292,]   362.0   262.0   323.0
```

```
[6293,]   579.0   394.5   485.3
[6294,]   161.0   113.0   150.0
[6295,]   109.3   106.0   117.0
[6296,]  1991.0  1372.0  1840.8
[6297,]   709.0   507.0   594.0
[6298,]   139.3   102.0   113.0
[6299,]   206.0   151.8   207.0
[6300,]   193.0   138.0   162.0
[6301,]  1218.8   898.0  1176.0
[6302,]   174.0   126.3   138.3
[6303,]   235.0   150.0   181.0
[6304,]   383.3   275.0   307.0
[6305,]   458.0   393.8   475.5
[6306,]   865.0   593.0   682.0
[6307,]   106.5    70.0    93.0
[6308,]   103.0    77.0    95.3
[6309,]    89.0    70.0    83.0
[6310,]    99.8    70.0    80.0
[6311,]   110.0    77.0    96.5
[6312,]   220.0   137.0   168.0
[6313,]    91.0    83.0    81.0
[6314,]   135.5   103.0   100.0
[6315,]   723.0   539.0   754.0
[6316,]   761.0   573.0   742.0
[6317,]  1496.3  1012.0  1298.3
[6318,]   311.0   256.0   309.3
[6319,]   431.0   359.8   361.0
[6320,]   143.0   112.0   119.0
[6321,]   141.0   106.0   131.5
[6322,]  1043.0   722.8   859.3
[6323,]  1144.0   780.8   842.5
[6324,]  1769.0  1148.0  1428.8
[6325,]   135.0   108.5   118.5
[6326,]   187.5   135.8   159.5
[6327,]   161.0   123.8   154.5
[6328,]   256.0   157.5   224.0
[6329,]  2198.3  1391.3  1707.8
[6330,]   538.0   361.5   459.5
[6331,]   301.0   232.5   322.5
[6332,]   582.0   404.5   681.0
[6333,]   931.0   750.3  1099.0
[6334,]   112.0    83.3    96.0
```

```
[6335,]   146.0   132.3   160.8
[6336,]   390.0   317.3   396.8
[6337,]   406.0   322.5   563.3
[6338,]   105.3    78.0   103.0
[6339,]   111.0    89.8   112.0
[6340,]   117.0    91.3   128.0
[6341,]   137.8    97.0   148.0
[6342,]   171.0   208.0   142.8
[6343,]   264.0   231.8   224.0
[6344,]   183.8   141.0   183.0
[6345,]   187.0   147.0   182.3
[6346,]   191.0   151.3   191.0
[6347,]   132.3    97.0   114.0
[6348,]   246.0   153.0   173.8
[6349,]   736.0   515.0   546.0
[6350,]  1287.5   921.0  1053.0
[6351,]   232.0   152.0   199.8
[6352,]   135.0    89.5   133.0
[6353,]   147.0   117.0   138.0
[6354,]   203.5   132.0   187.5
[6355,]   118.0    83.0   110.0
[6356,]   282.0   208.0   245.0
[6357,]   243.5   170.0   250.8
[6358,]   366.0   260.0   313.0
[6359,]   157.0   110.0   151.0
[6360,]   120.0    76.0   106.0
[6361,]   712.0   592.5   619.0
[6362,]   486.0   340.0   383.0
[6363,]  1079.5   871.0  1118.3
[6364,]   166.0   117.5   131.0
[6365,]   150.0   127.0   164.0
[6366,]   237.0   172.0   204.8
[6367,]   102.0    76.3    92.0
[6368,]    84.0    66.0    73.0
[6369,]    95.3    67.3    91.3
[6370,]   121.0    86.0   104.0
[6371,]   940.8   568.0  1319.3
[6372,]   126.0   101.8   114.0
[6373,]   102.8    97.5   102.0
[6374,]   136.3   109.3   128.8
[6375,]   135.5   111.5   139.5
[6376,]   437.0   264.0   358.5
```

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[6377,]   226.3   194.5   243.5
[6378,]   179.3   120.0   126.5
[6379,]   115.3    96.0    90.3
[6380,]   112.0    87.0    95.5
[6381,]   101.3    98.0   109.0
[6382,]   121.5    86.0    90.0
[6383,]   109.3    78.0    99.0
[6384,]   120.3    79.3   109.0
[6385,]   108.3    74.0    96.5
[6386,]   128.0    97.0   116.0
[6387,]   163.3   123.5   146.0
[6388,]   107.0    74.0    94.3
[6389,]   107.0    83.0    98.0
[6390,]    97.3    74.5    91.0
[6391,]   119.5    89.0   100.3
[6392,]   152.0   121.0   129.0
[6393,]   123.5   113.8   113.0
[6394,]   121.8   131.0   105.8
[6395,]   121.5   112.0    97.0
[6396,]   129.0   100.3   102.0
[6397,]   161.0    99.0   142.8
[6398,]   143.0   125.0   127.0
[6399,]   205.0   169.5   147.0
[6400,]   575.8   591.0   619.3
[6401,]   268.0   252.0   191.0
[6402,]   288.0   200.5   215.0
[6403,]   142.0   129.0   140.8
[6404,]   207.0   138.0   168.0
[6405,]   121.0   120.0    93.0
[6406,]   154.8   115.0   112.5
[6407,]   120.0   111.0   123.0
[6408,]   242.0   198.8   228.0
[6409,]   243.3   215.0   198.0
[6410,]   132.0   166.0   106.0
[6411,]   172.0   175.3   135.0
[6412,]   136.3   172.0   118.5
[6413,]   125.0   160.0   119.0
[6414,]   130.0   151.8    95.0
[6415,]   126.5   129.0   100.3
[6416,]   138.0    95.0   116.0
[6417,]   125.0   104.0   113.0
[6418,]   131.8    98.0   102.3
```

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[6419,]   120.0    99.3    96.0
[6420,]   116.0   110.3   105.0
[6421,]   107.3    90.0    83.5
[6422,]   127.0   114.0   101.0
[6423,]   212.0   209.3   181.0
[6424,]   240.5   237.3   185.3
[6425,]   308.0   305.0   247.0
[6426,]   367.0   290.5   266.3
[6427,]   204.5   223.3   179.5
[6428,]   390.0   427.8   318.5
[6429,]   380.0   351.5   286.0
[6430,]   562.3   459.3   513.3
[6431,]   160.0   150.5   121.8
[6432,]   520.0   380.8   449.8
[6433,]   195.0   122.3   136.3
[6434,]   165.5   128.3   122.8
[6435,]   103.0    75.0    95.5
[6436,]   128.0    69.3    92.0
[6437,]   113.8    81.5    90.5
[6438,]   123.0   102.0   103.5
[6439,]   145.0    95.0   123.8
[6440,]   122.5    90.8   109.8
[6441,]   110.0    88.0    88.0
[6442,]   171.0   126.0   139.3
[6443,]   103.3    89.5    98.8
[6444,]   110.0    91.0    97.5
[6445,]   163.0   100.0   132.0
[6446,]   150.5   111.3   134.8
[6447,]   140.0   100.0   123.0
[6448,]   123.0    95.0   127.0
[6449,]   119.0    95.3   109.3
[6450,]   150.0   110.0   118.0
[6451,]   143.0   136.0   103.0
[6452,]   155.3   162.0   130.0
[6453,]   349.0   333.0   267.0
[6454,]  1978.0  1289.0  1223.0
[6455,]   229.3   228.8   176.3
[6456,]  4433.0  2527.0  3534.0
[6457,]  1080.0   703.0   724.0
[6458,]   328.3   201.8   206.3
[6459,]   169.0   136.0   154.0
[6460,]   223.0   145.0   151.0
```

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[6461,]   103.3    98.3    92.0
[6462,]   101.0   101.0   100.0
[6463,]    99.0    79.0    89.0
[6464,]    95.3    74.3    88.8
[6465,]   101.0    84.0    89.0
[6466,]   131.0    99.0   110.0
[6467,]   147.5   148.5   113.0
[6468,]   358.0   270.0   302.0
[6469,]   874.0   532.0   577.0
[6470,]   478.5   340.8   376.0
[6471,]   467.0   248.0   264.0
[6472,]   346.0   217.0   245.0
[6473,]   156.0   131.8   140.5
[6474,]   257.3   227.0   223.0
[6475,]  1328.0   785.0   841.0
[6476,]   212.0   145.5   159.5
[6477,]   103.0    85.3   102.0
[6478,]   117.0    93.5   100.0
[6479,]   124.0   106.0   121.0
[6480,]   256.5   171.8   181.5
[6481,]   197.0   141.3   191.0
[6482,]   122.0    84.8   108.0
[6483,]   117.5    82.8    99.3
[6484,]   111.0    76.0    93.0
[6485,]   120.0    82.3   100.0
[6486,]   146.5   111.8   119.3
[6487,]   185.0   134.3   131.0
[6488,]   183.0   127.0   138.3
[6489,]   191.8   162.8   149.3
[6490,]   635.0   384.5   461.0
[6491,]   216.0   198.0   163.5
[6492,]   209.0   303.5   140.8
[6493,]  1007.0   649.3   710.3
[6494,]   498.0   307.0   373.0
[6495,]   232.0   195.0   188.5
[6496,]   349.0   249.8   275.0
[6497,]   415.0   332.0   279.0
[6498,]   352.5   378.0   346.3
[6499,]  1329.0   935.5  1045.5
[6500,]   219.0   227.0   160.5
[6501,]   121.3   152.0    97.8
[6502,]   125.0   164.0   106.3
```

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[6503,]   142.8   184.0   140.3
[6504,]   158.5   198.0   118.0
[6505,]   107.0   150.8   105.5
[6506,]   147.0   147.0   126.8
[6507,]   113.8   111.0    92.0
[6508,]   132.0   178.0   121.5
[6509,]   132.3   206.0   124.0
[6510,]   128.5   228.0   114.5
[6511,]  3780.0  2408.3  2718.0
[6512,]   137.3   120.0    96.0
[6513,]   134.0   118.0   111.3
[6514,]   127.3   112.3    98.0
[6515,]   571.3   365.0   482.0
[6516,]   230.8   165.0   194.3
[6517,]   141.3   118.8   120.0
[6518,]   142.0   106.0   102.0
[6519,]   158.0   114.0   134.8
[6520,]   101.5    93.5    98.0
[6521,]   143.5   159.0   140.0
[6522,]   199.3   142.0   173.5
[6523,]   134.8   111.0   106.0
[6524,]   124.0   107.0   104.0
[6525,]   116.3   101.0    91.3
[6526,]   123.3   101.0   101.0
[6527,]    88.3    86.0    90.0
[6528,]   104.3    95.0    99.0
[6529,]   106.3   104.3    84.5
[6530,]   163.5   255.0   176.0
[6531,]  1451.8  1295.0  1268.0
[6532,]  3539.0  2479.8  2951.0
[6533,]  1441.5  1009.0  1102.0
[6534,]   223.3   148.0   203.0
[6535,]   139.5   128.3   120.0
[6536,]   149.8   155.5   131.0
[6537,]   123.3   126.5   125.0
[6538,]   147.3   133.8   145.0
[6539,]   140.8   112.8   113.0
[6540,]   162.3   131.8   134.0
[6541,]   154.8   151.3   101.5
[6542,]   459.3   451.0   345.0
[6543,]   577.8   563.3   450.0
[6544,]   711.0   526.8   601.8
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[6545,]  2001.8  1398.3  1517.0
[6546,]   158.8   142.8   109.0
[6547,]   895.8   645.5   547.0
[6548,]   219.0   211.3   167.0
[6549,]  1224.8   914.3   842.0
[6550,]   196.0   251.0   182.3
[6551,]   561.8   556.8   443.0
[6552,]  1715.0  1291.8  1341.3
[6553,]  1055.3   765.0   830.8
[6554,]   710.5   506.3   553.0
[6555,]   479.0   406.8   409.5
[6556,]   438.0   346.0   282.8
[6557,]   337.5   264.0   294.0
[6558,]   439.0   311.3   387.0
[6559,]   129.0    95.0   117.0
[6560,]   114.8    78.0   101.5
[6561,]   112.0    73.3    82.0
[6562,]   114.0    87.0    89.5
[6563,]   119.0    87.0    94.0
[6564,]   181.0   122.0   160.0
[6565,]   102.0    81.0    91.8
[6566,]   125.5    90.0   108.5
[6567,]   104.0    98.3    88.5
[6568,]   129.0   122.0   108.3
[6569,]   196.3   192.0   183.8
[6570,]   324.0   259.8   260.0
[6571,]   145.0   124.0   111.3
[6572,]   120.5   120.0   116.0
[6573,]   133.0   149.0   129.0
[6574,]   606.0   479.0   567.3
[6575,]   137.5   121.0   147.0
[6576,]   129.0   103.0   111.0
[6577,]   114.0    89.0    86.0
[6578,]   102.3    91.0    95.3
[6579,]   106.0    88.3    89.0
[6580,]   109.0    80.0    88.0
[6581,]    95.5    89.0    83.5
[6582,]   129.0   120.8   116.0
[6583,]   361.0   233.0   275.0
[6584,]   113.5    92.0    98.5
[6585,]   159.0   125.5   155.0
[6586,]   110.0    83.0   100.0
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```
[6587,]   490.0   371.0   445.0
[6588,]   251.0   212.3   274.0
[6589,]   701.0   492.0   594.0
[6590,]   774.5   544.0   724.3
[6591,]   304.0   195.5   262.0
[6592,]   210.0   133.0   172.0
[6593,]   142.0   168.0   125.8
[6594,]  1437.3   963.8  1113.0
[6595,]   424.0   250.8   351.0
[6596,]   525.0   341.0   409.5
[6597,]   244.8   171.3   226.0
[6598,]   266.0   183.5   203.0
[6599,]   301.0   232.3   208.0
[6600,]   292.0   190.3   177.0
[6601,]   262.0   150.3   204.0
[6602,]   102.0    77.5    78.8
[6603,]   145.3   121.5   133.0
[6604,]   227.0   166.5   189.0
[6605,]   151.0   108.8   115.3
[6606,]   128.8    94.0   142.0
[6607,]   197.0   126.8   132.0
[6608,]   152.0   104.0   120.8
[6609,]   170.8   111.5   132.0
[6610,]   154.0    89.3   126.0
[6611,]   114.0    86.5   128.0
[6612,]   171.0   143.3   143.0
[6613,]   139.0   104.0   138.0
[6614,]   107.0    65.3    88.8
[6615,]    97.0    71.0    90.0
[6616,]   110.0    70.0    85.5
[6617,]   113.0    74.0    90.3
[6618,]   131.3    94.0   105.5
[6619,]   263.0   217.0   239.0
[6620,]   201.0   148.0   198.8
[6621,]   146.0   111.0   137.5
[6622,]   124.0    87.0   106.0
[6623,]   107.0    67.5    91.3
[6624,]   109.5    82.0   107.3
[6625,]   108.0    76.0    90.8
[6626,]   103.0    79.3    93.0
[6627,]   116.0    65.0    89.0
[6628,]   119.0    82.0   112.0
```

```
[6629,]   145.0    91.5   121.3
[6630,]   350.5   278.0   278.8
[6631,]   218.0   135.0   167.3
[6632,]   169.0   117.3   142.5
[6633,]   208.0   143.0   201.0
[6634,]   193.5   128.0   166.3
[6635,]   110.0    86.3   116.0
[6636,]    99.0    70.0    84.3
[6637,]   102.5    74.0    97.0
[6638,]   103.0    67.0    84.0
[6639,]   105.0    68.0    92.5
[6640,]   115.3    85.0   102.0
[6641,]   125.0    79.0    96.0
[6642,]   228.0   150.0   176.3
[6643,]   185.3   168.0   142.0
[6644,]   684.0   571.3   507.0
[6645,]  1198.0   810.0   871.0
[6646,]   223.3   144.0   191.0
[6647,]   133.0   115.3   114.0
[6648,]   205.0   149.0   172.5
[6649,]   142.0   118.0   160.0
[6650,]   296.0   233.5   260.0
[6651,]   177.0   131.0   188.3
[6652,]   135.8    91.8   113.0
[6653,]   137.0   103.5   120.0
[6654,]   142.0   111.5   133.8
[6655,]   232.8   172.0   246.0
[6656,]   154.0    99.3   150.0
[6657,]   111.0    83.0   100.3
[6658,]   123.8    82.3   109.0
[6659,]   201.0   183.5   187.0
[6660,]    99.0    77.0   102.0
[6661,]   109.0    74.3    87.0
[6662,]    97.0    70.0    90.0
[6663,]   135.0   103.3   133.5
[6664,]   132.3    91.0    96.0
[6665,]   108.3    82.3    97.0
[6666,]   156.3   119.8   139.0
[6667,]   202.0   161.0   169.0
[6668,]  1230.3   905.0  1056.0
[6669,]   402.3   289.0   408.8
[6670,]   122.5    82.8   106.0
```

```
[6671,]   122.3    85.0   113.0
[6672,]   111.0    82.0    90.3
[6673,]   182.0   135.5   172.0
[6674,]   109.8    77.0    95.0
[6675,]   469.5   426.0   520.0
[6676,]   149.3   103.3   132.0
[6677,]   144.8   103.0   133.0
[6678,]   132.5    96.0   118.0
[6679,]   468.3   298.8   358.5
[6680,]   602.8   429.0   478.8
[6681,]   297.5   217.0   343.3
[6682,]   132.3    82.3   103.3
[6683,]   184.0   128.0   158.0
[6684,]   180.3   125.0   168.5
[6685,]   126.3    84.3   115.5
[6686,]   110.8    66.0    84.8
[6687,]   114.3    84.0   106.5
[6688,]   100.3    68.0    82.0
[6689,]   125.8    78.0   103.3
[6690,]   488.0   366.0   475.8
[6691,]   122.3    68.0    90.3
[6692,]   108.8    86.0    97.5
[6693,]   355.8   236.0   286.5
[6694,]   121.8    72.3   106.8
[6695,]   145.0   114.0   150.3
[6696,]   112.5    73.0    87.5
[6697,]   166.0   122.0   114.8
[6698,]   154.8   114.0   155.5
[6699,]    98.5    72.0    90.0
[6700,]   118.5    74.3   112.0
[6701,]    94.3    71.0    84.0
[6702,]   150.3   119.0   156.0
[6703,]    99.3    68.8    88.5
[6704,]   189.3   131.0   164.0
[6705,]   119.3    70.0   107.0
[6706,]   132.5    84.5   125.3
[6707,]   171.0   116.0   158.0
[6708,]   121.8    75.0    89.0
[6709,]   101.8    68.0   100.0
[6710,]   116.0    59.3    83.0
[6711,]    97.3    70.3    85.0
[6712,]    85.3    68.3    83.0
```

```
[6713,]   102.0    74.0    85.0
[6714,]    93.5    68.5    92.0
[6715,]    92.3    66.5    86.3
[6716,]   157.0    98.5   105.0
[6717,]   114.5    76.5    91.0
[6718,]   248.0   175.0   217.8
[6719,]   455.0   292.8   418.0
[6720,]   173.0   127.0   175.0
[6721,]   555.0   367.0   502.0
[6722,]   143.0    97.5   128.0
[6723,]   430.5   245.8   354.0
[6724,]   163.0   102.5   136.5
[6725,]   600.0   332.5   481.0
[6726,]   140.5    77.0   122.0
[6727,]   155.0    90.3   139.0
[6728,]    94.0    68.5    93.0
[6729,]   107.5    76.3    84.0
[6730,]   113.0    74.0    97.0
[6731,]   103.0    80.0    85.0
[6732,]   105.8    73.5    97.0
[6733,]   109.0    75.0   104.0
[6734,]   102.0    73.0    91.3
[6735,]    98.3    75.0    86.0
[6736,]   109.0    71.0    95.0
[6737,]   248.0   133.0   207.3
[6738,]    99.5    74.0    83.0
[6739,]   112.0    70.0    91.0
[6740,]   114.0    78.0    90.5
[6741,]   109.8    80.8   137.0
[6742,]   100.0    81.0    97.0
[6743,]   110.0    84.0    94.8
[6744,]   308.3   162.5   298.8
[6745,]   111.0    69.0    91.5
[6746,]   231.0   128.0   230.0
[6747,]   127.3    92.3   133.8
[6748,]   130.0    87.0   105.3
[6749,]   158.0   101.0   117.5
[6750,]   182.5    95.3   174.3
[6751,]   126.0    83.0   111.8
[6752,]   225.0   152.0   205.3
[6753,]   122.0    85.5   114.5
[6754,]   183.0   112.0   171.5
```

```
[6755,]  2539.0  1125.0  2217.3
[6756,]   107.0    74.3   118.3
[6757,]   175.8   101.0   165.0
[6758,]   159.0    91.0   117.0
[6759,]   109.0    77.3   119.3
[6760,]   136.3    85.0   100.5
[6761,]   163.0    90.0   157.8
[6762,]   153.0   101.3   148.8
[6763,]    94.3    81.0    84.8
[6764,]   113.0    79.0    77.3
[6765,]    99.0    72.5    95.0
[6766,]   139.0    90.0   109.0
[6767,]   132.0    90.0   106.8
[6768,]   148.0    82.5   118.0
[6769,]    99.0    74.3    88.0
[6770,]   107.0    68.3    98.8
[6771,]   251.0   126.3   229.0
[6772,]    99.5    74.5    87.0
[6773,]   106.0    83.3    98.3
[6774,]   118.0    72.3    92.0
[6775,]   142.3    83.5   119.0
[6776,]   221.0   119.5   234.0
[6777,]   554.0   421.3   520.5
[6778,]   495.8   324.8   402.0
[6779,]   180.0    99.3   160.0
[6780,]   406.0   293.3   356.5
[6781,]   133.8    88.3   121.0
[6782,]   105.0    85.5   100.0
[6783,]   841.0   323.3   694.0
[6784,]   904.0   340.8   762.0
[6785,]   271.0   129.5   229.0
[6786,]   113.0    71.3    88.0
[6787,]   132.3    77.8   107.0
[6788,]   187.0   109.3   166.0
[6789,]   327.0   198.0   270.3
[6790,]   439.5   295.0   409.0
[6791,]   975.0   445.3   709.0
[6792,]   319.0   212.0   278.3
[6793,]  1715.0   938.0  1524.0
[6794,]   141.0    98.8   153.0
[6795,]   222.0   176.0   214.3
[6796,]   428.0   271.0   324.0
```

```
[6797,]   231.5   136.3   201.0
[6798,]   266.0   162.0   260.3
[6799,]   178.0   112.0   150.0
[6800,]   109.3    76.5   105.0
[6801,]   151.0    99.0   140.3
[6802,]   321.0   201.0   246.0
[6803,]   280.5   194.3   245.0
[6804,]   359.0   242.0   315.3
[6805,]   243.0   174.0   243.0
[6806,]   110.8    68.5    91.0
[6807,]   108.0    74.0    92.5
[6808,]  1379.0   882.0  1064.0
[6809,]   144.8    92.0   122.5
[6810,]   103.0    72.0    96.0
[6811,]   141.0    97.0   123.0
[6812,]   123.3    84.8   123.3
[6813,]   124.0    83.0    97.3
[6814,]   107.0    60.0    75.3
[6815,]    97.0    79.0    92.0
[6816,]    95.0    63.0    95.3
[6817,]   100.0    75.0    92.3
[6818,]   100.0    65.3    79.5
[6819,]   121.0    85.0    97.3
[6820,]   126.0    77.0   104.5
[6821,]   243.5   192.3   191.8
[6822,]   107.0    73.0    85.3
[6823,]   167.0   106.0   137.3
[6824,]   765.8   525.5   558.3
[6825,]   499.8   351.0   417.5
[6826,]  1027.3   730.0   862.0
[6827,]   191.8   143.0   207.8
[6828,]   138.3   103.0   109.3
[6829,]    92.0    69.0    71.5
[6830,]   105.0    75.0    89.0
[6831,]   131.0    87.3   119.0
[6832,]    93.0    68.3    92.0
[6833,]    90.0    61.0    79.0
[6834,]   269.0   182.3   204.0
[6835,]   244.3   145.0   162.0
[6836,]   898.8   609.8   568.0
[6837,]  2534.5  1658.0  1916.0
[6838,]   711.5   524.3   697.3
```

```
[6839,]   419.5   333.5   393.0
[6840,]   255.8   176.8   226.0
[6841,]   108.0    76.0    96.0
[6842,]   110.8    95.0   112.0
[6843,]   133.3    96.3   116.0
[6844,]   151.0   118.5   146.3
[6845,]   139.5   117.8   146.0
[6846,]   117.0   103.0   108.0
[6847,]   255.8   190.8   255.8
[6848,]   133.3    92.0   102.0
[6849,]   134.3   104.0   124.0
[6850,]   100.3    74.8    90.5
[6851,]    92.3    63.0    90.0
[6852,]    94.0    73.0    74.0
[6853,]   216.3   136.8   171.5
[6854,]   104.8    78.0    91.0
[6855,]    90.5    67.0    83.0
[6856,]   146.3   107.0   124.3
[6857,]   119.3    80.0    93.0
[6858,]   178.0   151.0   162.0
[6859,]   124.8   119.3   119.5
[6860,]  1109.5   777.0   820.0
[6861,]  1158.0   785.0   849.0
[6862,]   434.0   309.0   304.8
[6863,]   139.5   110.0   128.0
[6864,]   231.8   158.0   195.0
[6865,]   610.0   464.3   461.5
[6866,]   235.5   169.0   152.0
[6867,]   190.0   136.0   142.0
[6868,]  1110.8   760.5   671.5
[6869,]  2482.3  1510.0  1823.0
[6870,]   288.5   224.0   247.0
[6871,]   263.3   173.8   227.0
[6872,]   189.3   152.0   192.3
[6873,]   128.3   100.0    96.3
[6874,]   337.8   220.3   250.0
[6875,]   137.0   103.0   138.3
[6876,]   182.0   155.0   140.3
[6877,]  1367.8   929.0   899.0
[6878,]  1505.0   961.0  1134.0
[6879,]   787.0   668.0   652.3
[6880,]  3041.3  1963.5  2018.5
```

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[6881,]   302.0   198.0   240.0
[6882,]   432.0   295.0   369.0
[6883,]   142.3    97.0   124.8
[6884,]   105.0    81.0    89.5
[6885,]   108.0    98.8   101.0
[6886,]   364.8   247.0   283.5
[6887,]   198.0   152.3   187.5
[6888,]   107.0    81.3   102.3
[6889,]    98.3    69.0    82.5
[6890,]   142.0   112.3   119.3
[6891,]   112.0    88.5    80.5
[6892,]  1335.8   858.0   968.0
[6893,]   631.0   449.0   480.5
[6894,]  1049.0   713.0   775.0
[6895,]   282.8   217.5   235.0
[6896,]   376.0   263.8   290.3
[6897,]   538.0   431.3   494.0
[6898,]    94.8    74.5    86.0
[6899,]   129.0    95.5   114.5
[6900,]   234.0   178.3   181.0
[6901,]   169.8   107.3   139.0
[6902,]   575.0   442.3   437.5
[6903,]   815.0   532.5   668.0
[6904,]   263.8   190.0   220.0
[6905,]   163.0   106.0   131.3
[6906,]   243.0   202.0   194.0
[6907,]    95.0    68.0    91.0
[6908,]    93.0    66.0    84.8
[6909,]   101.0    69.8    93.0
[6910,]   123.3    83.0   104.0
[6911,]    90.0    68.0    78.3
[6912,]   111.0    73.0    90.0
[6913,]   225.0   163.0   182.0
[6914,]   182.0   149.0   159.3
[6915,]   204.0   168.5   181.0
[6916,]   228.0   199.0   185.0
[6917,]   509.8   367.0   413.8
[6918,]   208.0   150.3   183.0
[6919,]   126.0    83.0   103.0
[6920,]   159.5   127.0   136.3
[6921,]   368.0   250.5   306.0
[6922,]   139.0   102.0   122.0
```

```
[6923,]   232.5   194.0   204.0
[6924,]   378.0   287.3   312.8
[6925,]   118.0    83.0   100.0
[6926,]   117.3    80.0    93.0
[6927,]  1175.0   931.5   996.0
[6928,]   899.0   663.0   726.0
[6929,]   721.3   499.0   522.0
[6930,]   796.0   587.5   607.5
[6931,]  1142.0   785.0   749.0
[6932,]   557.3   366.0   439.0
[6933,]   293.0   217.0   253.0
[6934,]   117.0    91.0   110.0
[6935,]   156.3   111.0   118.0
[6936,]   803.0   600.3   658.8
[6937,]   553.0   390.0   429.3
[6938,]   175.3   145.0   127.5
[6939,]   257.0   189.0   228.3
[6940,]   136.0    98.0   125.5
[6941,]   254.8   173.0   225.8
[6942,]   130.0    92.5   117.5
[6943,]   187.0   123.3   168.3
[6944,]   206.8   138.0   156.5
[6945,]   355.0   268.5   275.0
[6946,]   753.0   480.0   551.5
[6947,]   117.0    77.3    94.3
[6948,]   113.0    71.8    83.5
[6949,]    90.0    72.0    72.3
[6950,]   103.0    67.5    73.8
[6951,]    95.0    73.3    93.5
[6952,]   153.0   109.3   115.3
[6953,]   112.0    73.0    81.0
[6954,]   114.3    88.5    98.0
[6955,]   259.0   192.0   230.0
[6956,]   283.0   197.3   202.5
[6957,]  1071.3   768.0   842.3
[6958,]   282.0   188.8   241.0
[6959,]   130.0    96.0   100.0
[6960,]   134.5   101.0   104.3
[6961,]   152.0   108.0   122.0
[6962,]   868.0   628.0   622.0
[6963,]  1987.8  1269.0  1343.5
[6964,]  2561.0  1647.0  1790.0
```

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[6965,]   125.0   100.0   107.0
[6966,]   178.5   132.0   150.5
[6967,]   160.0   113.0   143.0
[6968,]   230.0   190.0   214.0
[6969,]   721.8   505.0   512.3
[6970,]   447.0   292.0   377.0
[6971,]   306.0   209.5   273.0
[6972,]   845.3   608.0   891.0
[6973,]   383.0   307.0   452.0
[6974,]   110.0    73.5    95.0
[6975,]   118.5    95.0   115.0
[6976,]   199.0   139.0   142.3
[6977,]   440.0   335.3   503.0
[6978,]   103.5    68.0    81.0
[6979,]   137.0   108.0   140.0
[6980,]   118.0    80.0    98.0
[6981,]   143.5    89.0   115.0
[6982,]   155.8   120.0   144.3
[6983,]   145.5   110.0   119.0
[6984,]   135.5   120.0   123.0
[6985,]   126.0    75.0    99.8
[6986,]   138.0    99.0   121.0
[6987,]   145.3    96.0   115.0
[6988,]   289.0   197.0   208.5
[6989,]   348.3   215.8   233.0
[6990,]   347.5   272.0   277.0
[6991,]   152.3   100.0   120.5
[6992,]   107.0    73.5   102.0
[6993,]   110.8    66.0    88.0
[6994,]   145.8    95.0   120.5
[6995,]   117.8    84.3    92.0
[6996,]   157.5   115.0   126.0
[6997,]   116.5    96.0   103.0
[6998,]   148.3   106.3   121.0
[6999,]   149.3    98.0   136.0
[7000,]   127.8    89.0   111.5
[7001,]   199.5   130.3   190.0
[7002,]   184.5   134.8   159.0
[7003,]   315.5   256.5   281.3
[7004,]   187.8   134.8   142.0
[7005,]   234.5   193.3   239.8
[7006,]   144.8   105.3   130.5
```

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[7007,]   112.5    78.0    99.0
[7008,]    82.8    59.3    71.5
[7009,]    89.5    69.5    84.5
[7010,]   844.8   620.5   885.8
[7011,]   141.0   115.0   116.0
[7012,]   105.8    98.5    82.3
[7013,]    97.0   105.0    75.0
[7014,]   116.0   124.0    87.0
[7015,]   133.8   124.3   107.8
[7016,]   135.0   148.0   105.0
[7017,]   132.0   234.0    96.0
[7018,]   104.3   286.3    97.3
[7019,]   109.0   281.0    96.0
[7020,]   103.0   227.0   102.0
[7021,]   113.0   156.0    94.0
[7022,]    95.0   112.0    81.0
[7023,]    92.0    78.0    86.0
[7024,]    97.8    74.5    94.0
[7025,]    93.0    97.0    78.8
[7026,]   118.0   128.0    90.0
[7027,]   108.5   124.3    95.0
[7028,]   118.0   110.0   126.8
[7029,]   111.0   106.0   116.0
[7030,]   108.5   121.3   110.0
[7031,]   108.0   132.0    89.0
[7032,]   104.0   188.0   100.0
[7033,]   118.0   332.5    91.0
[7034,]   114.3   393.0   107.5
[7035,]   123.0   438.0   101.0
[7036,]   103.0   421.8   101.0
[7037,]   100.5   230.0    96.3
[7038,]   110.0   259.0   104.0
[7039,]   107.0   273.8   109.0
[7040,]   103.5   346.0   150.8
[7041,]   125.0   247.8   122.0
[7042,]   104.0   218.8    99.8
[7043,]   103.5   229.8    87.5
[7044,]   123.0   265.8   112.3
[7045,]   104.0   190.0    96.3
[7046,]   114.0   181.0    86.5
[7047,]   101.0   129.0    88.5
[7048,]   101.0   173.5   104.5
```

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[7050,]   126.0   456.3   117.0
[7051,]   126.0   554.3    96.0
[7052,]   123.3   550.0   121.5
[7053,]   110.0   578.5   122.5
[7054,]   112.0   440.0   114.0
[7055,]   116.3   264.8    95.8
[7056,]   113.0   198.3   100.3
[7057,]    95.0   154.0    98.3
[7058,]   103.5   155.0    89.3
[7059,]    98.0   195.0    99.0
[7060,]   108.0   287.8    87.5
[7061,]   113.5   276.0    96.3
[7062,]   122.0   250.0   101.0
[7063,]   130.0   310.8    95.8
[7064,]   139.0   436.0   106.5
[7065,]   137.0   512.0   107.0
[7066,]   121.0   420.8    99.0
[7067,]   136.5   243.0    94.0
[7068,]   120.0   213.5    98.0
[7069,]   115.0   296.0   106.0
[7070,]   114.0   261.0   104.0
[7071,]   120.0   173.0   103.3
[7072,]   129.0   129.0   113.0
[7073,]   109.0    93.0   108.0
[7074,]   116.8    79.0    91.5
[7075,]    98.0    73.0    80.0
[7076,]    99.0    80.0    84.0
[7077,]   110.8    85.3    84.8
[7078,]   109.0    80.0    80.0
[7079,]   125.0    97.0   103.0
[7080,]   129.8   106.8    95.3
[7081,]   103.0   173.0    91.0
[7082,]   110.0   166.0    84.0
[7083,]    95.0   103.0    88.3
[7084,]   110.0    92.0    84.0
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[7086,]   123.3    76.5    97.8
[7087,]   113.0    69.0    86.0
[7088,]   112.0    78.0    89.0
[7089,]   102.5    80.5    85.0
[7090,]   101.5    96.0   101.0
```

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[7092,]    98.5    93.0    81.3
[7093,]   102.3    91.0    86.0
[7094,]    98.3    88.0    87.0
[7095,]    91.3    92.3    83.8
[7096,]   115.0   105.0    83.0
[7097,]   118.5    85.0    91.0
[7098,]   111.5    80.0    73.8
[7099,]   118.3    97.3    96.0
[7100,]   114.8   119.3    87.0
[7101,]   109.3   120.5    91.5
[7102,]    96.8   133.0   104.0
[7103,]    86.0   108.5    78.0
[7104,]   105.0    94.5    88.3
[7105,]    88.8   106.3    84.0
[7106,]    98.5   113.3    89.0
[7107,]    94.3    76.0    79.3
[7108,]    94.0    79.3    79.5
[7109,]   100.3    71.5    99.5
[7110,]    94.5    84.5    94.0
[7111,]    94.0    68.5    83.3
[7112,]   106.3    74.3    83.8
[7113,]    95.3    74.0    82.3
[7114,]   100.3    74.0    75.3
[7115,]   105.3    76.3    77.8
[7116,]    97.3    86.5    79.3
[7117,]    97.8    66.0    81.5
[7118,]    99.3    68.0    90.8
[7119,]    94.3    75.5    91.0
[7120,]    88.5    64.0    76.5
[7121,]    93.8    75.0    80.0
[7122,]    91.5    64.0    73.3
[7123,]   100.5    72.0    76.0
[7124,]   104.3    70.0    80.0
[7125,]    96.0    81.3    88.5
[7126,]    91.8    70.0    89.5
[7127,]    87.8    70.3    76.5
[7128,]    97.3    86.0    85.0
[7129,]   104.0    90.0    78.3
[7130,]   107.3   114.3    86.0
[7131,]   103.0   136.0    84.0
[7132,]   118.8   104.0   109.0
```

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[7134,]   112.3   102.0   100.0
[7135,]   122.3   128.0    90.3
[7136,]   121.8   161.3    85.0
[7137,]   110.3   302.0   104.0
[7138,]   111.0   480.0    94.0
[7139,]   124.8   462.3   111.0
[7140,]   125.0   324.0   115.0
[7141,]   130.0   242.0   113.8
[7142,]   136.0   209.0   115.0
[7143,]   166.0   251.0   116.0
[7144,]   158.0   243.0   107.0
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[7146,]   141.0   178.0   134.0
[7147,]   136.0   199.0   113.8
[7148,]   123.0   323.8   135.0
[7149,]   127.0   368.0   116.0
[7150,]   144.5   312.0   107.3
[7151,]   113.0   222.5   100.0
[7152,]   123.0   185.0    95.0
[7153,]   121.0   163.0    90.8
[7154,]   103.5   144.0   103.0
[7155,]   117.0   139.0    94.0
[7156,]   153.0   138.0    95.8
[7157,]   131.5   123.3    95.0
[7158,]   104.0   125.0    99.0
[7159,]   120.0   148.3    85.8
[7160,]   105.3   156.3    91.0
[7161,]   115.0   194.3    74.0
[7162,]   105.0   233.5    79.5
[7163,]   113.0   167.5    85.0
[7164,]   100.0   151.3    86.0
[7165,]    98.0   136.0    90.5
[7166,]    91.8   107.0    89.0
[7167,]    99.0   114.5    84.0
[7168,]    89.0    95.3    81.0
[7169,]    91.5    95.0    86.3
[7170,]    90.0    86.3    85.0
[7171,]   105.0    84.5    78.3
[7172,]   107.8    85.5    80.0
[7173,]   100.0    75.5    82.5
[7174,]   120.0    73.3    75.5
```

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[7175,]   91.5   100.3    83.3
[7176,]  104.0   123.0    89.3
[7177,]  125.0   127.0    91.3
[7178,]  104.5   136.5    84.0
[7179,]  117.0    98.0    77.8
[7180,]  122.0    88.0    82.3
[7181,]   97.0    93.0    81.3
[7182,]   92.0   110.0    70.0
[7183,]   98.0   101.0    79.8
[7184,]   96.0    84.5    88.0
[7185,]  107.0   104.0    95.0
[7186,]   97.0   126.3   100.8
[7187,]  103.8   137.0   105.3
[7188,]   98.0   103.0    94.0
[7189,]  101.0    99.5    78.0
[7190,]  110.5   114.0    74.5
[7191,]  130.0   133.0    72.3
[7192,]  108.0   133.8    77.0
[7193,]  119.0   109.0    82.3
[7194,]  117.5   117.0    87.0
[7195,]  112.0   108.0    84.0
[7196,]   98.0   107.0    77.5
[7197,]   90.3    93.0    83.0
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[7215,]  104.0   102.5    81.0
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[7217,]   103.0    99.3    75.0
[7218,]   100.0    90.0    84.3
[7219,]    91.0   107.8    83.0
[7220,]    93.0   129.8    80.0
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[7224,]   103.5    65.3    84.3
[7225,]    94.0    63.3    82.0
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[7228,]    95.0    70.0    82.0
[7229,]    98.0    71.0    77.0
[7230,]   104.5    78.5    81.0
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[7238,]    89.0    70.0    73.3
[7239,]    84.0    74.0    73.3
[7240,]    80.8    81.8    79.8
[7241,]    87.0    66.0    66.3
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[7280,]    96.5    66.0    70.0
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[7283,]    92.0    66.3    78.0
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```

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[7426,]    98.0    65.0    81.3
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[7814,]   545.0   362.0   608.0
[7815,]  1227.8   857.3  1129.8
[7816,]   884.0   609.0  1067.0
[7817,]   346.0   294.0   346.0
[7818,]   846.0   584.5   891.3
[7819,]   418.0   375.0   413.0
[7820,]   289.0   190.0   205.0
[7821,]   186.8   136.0   157.3
[7822,]   469.0   341.0   407.0
[7823,]   585.0   409.0   440.0
[7824,]   696.0   419.5   549.3
[7825,]   560.0   335.0   453.0
[7826,]   366.0   290.0   373.0
[7827,]   492.5   386.3   618.3
[7828,]   333.0   229.0   236.0
[7829,]    96.0    87.0    93.0
[7830,]   485.0   396.0   354.5
[7831,]   441.0   311.0   326.0
[7832,]   206.0   167.3   169.0
[7833,]   221.0   175.0   197.3
[7834,]   376.8   269.0   341.0
[7835,]   200.0   182.3   183.0
[7836,]   143.0   153.3   174.0
[7837,]   328.3   220.5   261.0
[7838,]   257.3   188.0   228.0
[7839,]   123.3    96.8   131.8
[7840,]   678.8   427.3   674.0
[7841,]   769.3   523.5   627.0
[7842,]   146.3   141.5   114.0
[7843,]   309.5   220.8   298.0
[7844,]   372.3   229.5   391.0
[7845,]   148.5   121.3   150.3
[7846,]   180.0   157.3   221.0
```

```
[7847,]   143.8   128.0   146.0
[7848,]   305.3   240.0   293.5
[7849,]   123.3    92.5   115.0
[7850,]   126.5    72.5    80.0
[7851,]   171.0   114.0   179.0
[7852,]   406.8   283.8   456.0
[7853,]   204.0   155.5   218.5
[7854,]   238.5   192.0   272.3
[7855,]   323.8   288.0   418.0
[7856,]   480.8   366.8   476.5
[7857,]   735.8   490.0   796.5
[7858,]   219.3   192.0   287.5
[7859,]   269.0   239.5   282.5
[7860,]   795.5   659.0   837.8
[7861,]   729.5   561.0   794.0
[7862,]   698.3   506.5   575.3
[7863,]   274.8   218.0   248.5
[7864,]   208.8   148.0   203.3
[7865,]  1408.0   884.0  1643.0
[7866,]   269.0   191.0   267.0
[7867,]   186.5   131.0   170.3
[7868,]   215.8   152.5   222.8
[7869,]   805.5   484.0   802.0
[7870,]   314.5   205.0   298.8
[7871,]   192.5   112.0   189.3
[7872,]   174.3   125.0   172.3
[7873,]   237.8   159.0   197.0
[7874,]   159.3   118.0   118.0
[7875,]   127.0    99.0   119.0
[7876,]   190.8   127.0   157.3
[7877,]   189.5   120.8   210.0
[7878,]   185.5   120.0   184.0
[7879,]   213.3   159.0   290.3
[7880,]   173.0   115.0   183.0
[7881,]   280.3   186.0   343.0
[7882,]   158.3   123.0   198.0
[7883,]   266.5   185.0   233.0
[7884,]   154.5   135.0   154.0
[7885,]   277.0   211.0   248.0
[7886,]   275.5   209.0   254.0
[7887,]   225.5   160.0   208.0
[7888,]   118.0    85.8   102.8
```

```
[7889,]   115.0    88.0    90.0
[7890,]   233.0   142.0   229.0
[7891,]   107.0    76.3    92.8
[7892,]   105.5    73.0    81.0
[7893,]   202.0   136.3   174.0
[7894,]   249.0   163.3   189.0
[7895,]   112.8    80.0    99.0
[7896,]   137.0    91.3   116.0
[7897,]   121.0    74.3    87.5
[7898,]   112.3    78.5    83.0
[7899,]   104.0    81.3    88.0
[7900,]   160.0   107.3   131.3
[7901,]   125.0    82.8    96.0
[7902,]   185.0   107.3   140.0
[7903,]   101.0    76.3    79.8
[7904,]   107.3    68.0    85.0
[7905,]   125.0    79.3   101.0
[7906,]   104.0    75.0    97.0
[7907,]    98.0    83.3    93.3
[7908,]   115.0   100.0    86.0
[7909,]   123.0   101.3   101.0
[7910,]   148.8   111.5   110.3
[7911,]   122.0    90.5   109.0
[7912,]   163.0   124.5   138.0
[7913,]   238.0   149.0   202.0
[7914,]   188.5   138.0   158.0
[7915,]   256.0   177.3   205.0
[7916,]   100.0    76.0    93.8
[7917,]   121.0    90.0   100.5
[7918,]   116.0    87.5    95.5
[7919,]   127.0    88.0    93.3
[7920,]   191.5   121.0   153.8
[7921,]   170.0   108.3   137.0
[7922,]   147.0    89.0   111.8
[7923,]   111.3    75.0    92.5
[7924,]   117.0    75.0    91.5
[7925,]   115.0    76.0   108.3
[7926,]   100.3    71.0    76.8
[7927,]   111.0    77.0    87.8
[7928,]   142.0   109.0   128.8
[7929,]   220.8   164.0   198.3
[7930,]   407.0   302.0   373.0
```

```
[7931,]   844.0   496.0   639.0
[7932,]   122.0    82.0    87.5
[7933,]   101.0    70.3    84.0
[7934,]   100.0    68.0    98.5
[7935,]   135.5    77.0    95.8
[7936,]   125.0    80.0   105.8
[7937,]   130.0    97.0   122.0
[7938,]    84.0    69.0    85.0
[7939,]   210.0   134.0   142.0
[7940,]   280.0   215.0   241.3
[7941,]   357.5   209.0   265.0
[7942,]   237.0   153.5   207.0
[7943,]   174.0   144.0   187.8
[7944,]   129.3    99.0   141.0
[7945,]   118.0    85.8   104.0
[7946,]   109.0    70.0    97.8
[7947,]   114.5    75.3    92.0
[7948,]   101.0    77.0    95.0
[7949,]   113.0    84.0    88.0
[7950,]   127.3    84.0   123.0
[7951,]   138.0    87.5   106.0
[7952,]   103.0    77.0   124.8
[7953,]   117.0    76.3    92.0
[7954,]   113.5    78.0   105.0
[7955,]   125.0    84.5   103.0
[7956,]   112.0    70.0    94.0
[7957,]   109.3    72.8   100.0
[7958,]   169.0   106.5   144.0
[7959,]   177.0   127.8   156.8
[7960,]   143.8   109.8   151.0
[7961,]   173.0   118.5   166.0
[7962,]   158.0   107.8   131.5
[7963,]   120.8    89.3   110.0
[7964,]   133.0    76.8   112.0
[7965,]   109.0    71.5    90.3
[7966,]   182.5   131.5   167.0
[7967,]   394.0   271.8   289.0
[7968,]   123.0    76.5    98.5
[7969,]   108.0    72.8    88.0
[7970,]   109.0    81.0    96.0
[7971,]   123.0    78.0   109.0
[7972,]   126.8    84.0   106.0
```

```
[7973,]   136.0    97.0   144.0
[7974,]   160.0   122.5   152.0
[7975,]   116.3    83.0   104.0
[7976,]   120.0    82.0    93.0
[7977,]   109.0    71.5    92.0
[7978,]   192.5   129.0   165.0
[7979,]   185.0   110.0   142.0
[7980,]   118.0    90.5   111.5
[7981,]   119.8    81.0    97.0
[7982,]   102.0    75.0    84.0
[7983,]   209.0   151.5   203.3
[7984,]   160.0   100.0   119.5
[7985,]   234.0   176.0   203.5
[7986,]   992.0   653.3   887.0
[7987,]   101.0    70.0    97.3
[7988,]   107.0    85.0    99.3
[7989,]   111.0    69.5    94.8
[7990,]   107.5    74.0    88.0
[7991,]    97.0    75.0    89.3
[7992,]   250.0   180.8   228.8
[7993,]   422.0   242.0   316.5
[7994,]   348.5   243.0   285.5
[7995,]   451.0   300.5   331.8
[7996,]   351.3   217.0   242.0
[7997,]   115.5    85.0    99.0
[7998,]   115.3    83.0    98.0
[7999,]   217.0   129.0   153.8
[8000,]   101.5    70.0    87.3
[8001,]   177.8   112.5   139.3
[8002,]   110.5    94.0   109.0
[8003,]   455.0   301.8   339.0
[8004,]   355.0   228.0   267.0
[8005,]   150.8   113.0   135.3
[8006,]   260.3   142.3   213.0
[8007,]   305.3   224.0   265.0
[8008,]   383.3   238.0   289.5
[8009,]   496.0   322.3   336.0
[8010,]   308.0   176.5   257.0
[8011,]   141.3    86.0   123.3
[8012,]   104.0    75.3    97.0
[8013,]   489.3   232.5   341.0
[8014,]   109.0   104.0    86.0
```

```
[8015,]   99.8   73.0   93.0
[8016,]  108.3   79.0   86.0
[8017,]  111.0   81.0   84.8
[8018,]  166.8  120.8  148.0
[8019,]  178.5  112.8  135.0
[8020,]  177.0  130.8  145.0
[8021,]  138.3  105.5  124.0
[8022,]  195.3  138.3  190.0
[8023,]  126.3  110.0  107.5
[8024,]  255.8  122.5  193.0
[8025,]  177.0  110.3  154.0
[8026,]  312.3  153.3  280.3
[8027,]  190.5  108.0  162.0
[8028,]  131.0   83.3  107.0
[8029,]  112.5   79.0  107.5
[8030,]  129.8   75.8  105.0
[8031,]  110.3   73.0   82.0
[8032,]  128.5   82.0  128.3
[8033,]  118.0   82.3  100.0
[8034,]  103.5   80.0   87.0
[8035,]  261.0  130.0  203.8
[8036,]  137.5   86.3  125.0
[8037,]  119.8   89.0   97.0
[8038,]  116.3   82.0  114.5
[8039,]  123.3   66.5   86.0
[8040,]   88.3   69.0   86.0
[8041,]  130.3   80.0  120.5
[8042,]  148.5   93.8  130.0
[8043,]  108.3   78.0   96.0
[8044,]  150.5   92.0  129.8
[8045,]  684.0  262.3  665.5
[8046,]   95.3   93.0   91.0
[8047,]  125.3   89.0   98.8
[8048,]  128.5   81.3  108.5
[8049,]  110.3   65.0   81.5
[8050,]  121.0   78.0  105.0
[8051,]  179.0  109.3  151.5
[8052,]  155.0   97.0  140.3
[8053,]  191.0  126.0  198.3
[8054,]  196.0  106.5  156.8
[8055,]  126.3   88.0  111.8
[8056,]  594.0  238.0  503.3
```

```
[8057,]   107.0    66.3    97.3
[8058,]   101.3    70.0   107.5
[8059,]   108.0    73.0   100.5
[8060,]   138.0    83.3   112.0
[8061,]   125.8    86.0   115.8
[8062,]   109.0    74.3    90.3
[8063,]   142.0    79.0   110.3
[8064,]   164.3    99.0   161.0
[8065,]   183.0   102.5   160.3
[8066,]   205.0   130.0   174.3
[8067,]   384.3   201.0   333.0
[8068,]   168.0   115.0   142.0
[8069,]   145.0    87.3   116.3
[8070,]   188.5   122.8   161.0
[8071,]   781.0   366.3   628.0
[8072,]   104.0    74.8    95.0
[8073,]    99.0    72.0    75.0
[8074,]   120.5    83.8   106.0
[8075,]   204.0   116.8   152.0
[8076,]   178.0   108.5   180.0
[8077,]   226.8   140.8   199.0
[8078,]    85.0    62.3    76.0
[8079,]    96.0    62.0    79.0
[8080,]   127.3    81.5   101.0
[8081,]   132.0    79.8   115.5
[8082,]   129.0    82.0   105.0
[8083,]   173.3    99.3   139.0
[8084,]   165.0   109.5   160.0
[8085,]   129.0    77.8    92.0
[8086,]   131.5    87.3   118.0
[8087,]   180.0   109.0   139.3
[8088,]   137.0    97.0   149.0
[8089,]   302.5   187.8   225.0
[8090,]   132.0    86.0   102.5
[8091,]   305.0   187.0   231.0
[8092,]   110.0    67.5    92.0
[8093,]    97.0    65.0    92.0
[8094,]   109.0    73.0    99.0
[8095,]   146.3    94.0   132.0
[8096,]   152.0   104.0   135.5
[8097,]   182.0   122.0   148.0
[8098,]   152.0   102.3   128.0
```

```
[8099,]   160.0   105.0   133.0
[8100,]   135.0    97.0   109.0
[8101,]   114.5    97.8   106.0
[8102,]   144.0    99.0   147.0
[8103,]   109.0    71.0    84.3
[8104,]    85.0    61.3    83.0
[8105,]   129.0    86.0   111.0
[8106,]   134.0   103.0   124.3
[8107,]   174.0   130.5   183.0
[8108,]   162.0   106.0   163.0
[8109,]   103.0    65.0    92.8
[8110,]   116.5    78.5   105.3
[8111,]   115.0    78.0    91.5
[8112,]   249.0   163.0   234.8
[8113,]   105.0    87.0    85.3
[8114,]    97.0    69.0    88.3
[8115,]    93.0    71.0    79.3
[8116,]   107.0    74.3    86.0
[8117,]   127.8    99.0   107.8
[8118,]   118.0    98.0   107.0
[8119,]    93.0    67.5    81.5
[8120,]   135.3    86.0   103.5
[8121,]    97.0    75.8    80.5
[8122,]   104.0    71.0    89.3
[8123,]   141.0    94.0   121.0
[8124,]   109.0    67.3    84.3
[8125,]   641.0   402.0   443.5
[8126,]   109.3    85.5    94.3
[8127,]   154.0   105.5   160.3
[8128,]   106.0    86.5   109.8
[8129,]   106.0    75.5    99.0
[8130,]   135.0    86.3   121.3
[8131,]   143.0    86.5   114.0
[8132,]   487.3   336.8   358.0
[8133,]   264.0   190.0   210.3
[8134,]   166.0   120.3   162.0
[8135,]   354.0   255.3   307.0
[8136,]   284.0   179.8   277.0
[8137,]   321.0   251.8   423.0
[8138,]   142.0    97.3   119.0
[8139,]   163.0   104.5   135.5
[8140,]   416.0   245.5   283.0
```

```
[8141,]   260.5   187.0   214.0
[8142,]    99.0    67.3    85.0
[8143,]   104.0    61.0    84.0
[8144,]   108.0    72.0    89.0
[8145,]   106.0    64.3    98.5
[8146,]    93.0    70.0    87.0
[8147,]   125.3    83.0    93.0
[8148,]   166.0   102.0   121.0
[8149,]   153.0   108.0   125.0
[8150,]   109.0    76.0    97.0
[8151,]   142.0   102.3   137.0
[8152,]   200.0   136.0   180.3
[8153,]   130.0    97.0   108.0
[8154,]   538.8   345.3   399.0
[8155,]   303.0   215.0   239.8
[8156,]   287.5   176.0   208.0
[8157,]   130.3    96.3   120.0
[8158,]   349.3   228.0   284.8
[8159,]   120.5    86.0   112.0
[8160,]   144.8    97.0   125.0
[8161,]   146.0    92.0   120.3
[8162,]   108.3    84.0    95.0
[8163,]   204.0   142.5   161.0
[8164,]   194.0   148.0   148.0
[8165,]   138.5   117.0   114.0
[8166,]   143.3   106.5   140.0
[8167,]   153.0   134.0   146.0
[8168,]   214.5   156.0   190.0
[8169,]   114.3    89.0   111.0
[8170,]   112.8    74.0    86.0
[8171,]    91.3    66.0    82.0
[8172,]   105.3    88.0   107.0
[8173,]   102.8    69.0    85.3
[8174,]    88.0    72.0    80.3
[8175,]   104.5    73.3    92.8
[8176,]   103.5    79.0   102.3
[8177,]   110.5   102.0    92.3
[8178,]   276.3   201.5   216.0
[8179,]   105.8    86.0    99.3
[8180,]   120.8    80.3   103.3
[8181,]   211.3   145.0   163.3
[8182,]   104.8    68.0    94.0
```

```
[8183,]   113.5    99.5   117.0
[8184,]   105.0    79.0   104.0
[8185,]    98.5    76.3    89.3
[8186,]   103.3    80.8    89.5
[8187,]   127.3    86.5   124.0
[8188,]   179.0   114.5   163.5
[8189,]   120.0    91.0   123.3
[8190,]   111.8    78.5   110.3
[8191,]    94.8    78.0    81.3
[8192,]   102.0    67.8    80.5
[8193,]   227.0   148.5   152.0
[8194,]   137.3   119.3   144.5
[8195,]  2856.0  1721.5  1983.0
[8196,]   107.5    68.3    91.0
[8197,]   154.3   119.0   146.8
[8198,]   463.8   351.5   392.0
[8199,]   286.8   176.5   204.0
[8200,]   110.5    88.0    85.0
[8201,]   146.8    86.3   103.0
[8202,]   139.3   107.8   109.0
[8203,]   146.3   103.3   117.0
[8204,]   225.0   163.3   172.3
[8205,]   116.3    76.0    93.0
[8206,]   135.3    86.0   104.0
[8207,]    93.0    69.0    79.3
[8208,]   133.5    89.0   124.0
[8209,]    88.5    61.0    83.0
[8210,]    92.0    72.3    72.3
[8211,]    97.0    65.0    80.0
[8212,]    89.5    69.0    82.0
[8213,]   119.0    89.0   102.3
[8214,]   123.0    81.0   118.0
[8215,]   134.3    95.0   115.0
[8216,]    99.0    81.8    99.3
[8217,]   112.0    81.0   106.0
[8218,]   105.0   104.0   102.0
[8219,]   381.0   242.8   322.3
[8220,]   120.0    89.0    91.0
[8221,]   107.8    82.0    90.0
[8222,]   118.0    76.5   102.0
[8223,]    91.0    67.0    78.0
[8224,]    86.3    74.0    87.0
```

```
[8225,]   192.0   111.0   125.3
[8226,]   108.0    75.0    87.0
[8227,]   293.3   183.0   201.0
[8228,]   104.0    89.3    92.3
[8229,]   149.0   104.0   104.0
[8230,]   199.0   138.0   158.0
[8231,]   182.0   112.0   160.3
[8232,]    91.0    63.0    79.0
[8233,]    93.0    77.0    85.0
[8234,]   122.3    88.3   100.3
[8235,]   113.0    80.0    95.0
[8236,]   128.0    89.0   108.0
[8237,]   113.5    76.3    99.3
[8238,]   131.0    96.0   110.3
[8239,]   122.0    87.3   109.5
[8240,]   104.5    72.0    87.0
[8241,]   101.0    78.0    83.0
[8242,]   180.0   114.3   131.5
[8243,]   156.0   107.3   117.0
[8244,]   145.0   105.0   113.5
[8245,]   127.0    80.0    98.0
[8246,]   143.3   109.0   117.5
[8247,]    97.0    67.8    84.0
[8248,]    93.0    63.3    82.0
[8249,]   100.5    72.3    99.3
[8250,]   113.0    80.3    98.5
[8251,]   104.0    81.0    92.8
[8252,]   179.0   126.5   137.8
[8253,]   106.0    68.3    96.0
[8254,]    99.0    68.0    79.3
[8255,]   101.5    90.3    84.0
[8256,]   135.0    82.5   113.5
[8257,]   138.0    97.5   117.3
[8258,]   238.0   163.3   172.0
[8259,]   347.0   240.3   236.0
[8260,]   111.0    85.0   104.0
[8261,]   107.0    74.5    95.0
[8262,]   133.0    87.0   115.0
[8263,]   126.0   101.0   114.0
[8264,]   113.5    71.0    93.0
[8265,]   110.0    71.0    90.0
[8266,]   116.0    86.5   112.0
```

```
[8267,]   107.0    78.0   105.0
[8268,]   702.0   491.0   523.0
[8269,]   347.0   267.5   319.0
[8270,]   103.3    65.0    80.0
[8271,]   109.0    71.0    81.5
[8272,]   531.0   395.3   433.0
[8273,]   566.0   415.0   493.0
[8274,]   539.8   356.0   405.5
[8275,]   112.0    81.3   101.0
[8276,]   101.0    68.0    78.0
[8277,]    85.5    67.0    73.3
[8278,]    99.0    68.5    82.0
[8279,]   161.0   129.0   127.0
[8280,]   100.8    80.0    83.3
[8281,]   120.0    86.5   105.0
[8282,]    91.0    63.0    82.0
[8283,]   138.0    86.0   107.0
[8284,]   411.0   294.8   294.0
[8285,]    80.0    64.0    71.0
[8286,]   103.0    80.0   111.8
[8287,]   102.0    72.5    80.0
[8288,]    91.0    68.0    79.0
[8289,]   123.8    93.0   117.3
[8290,]   828.0   573.8   846.0
[8291,]   136.8   104.3   129.5
[8292,]   146.8   112.8   171.3
[8293,]   105.8   105.8   107.0
[8294,]   443.8   291.3   445.5
[8295,]   116.3    85.8   104.8
[8296,]   535.5   292.3   511.3
[8297,]   480.0   291.3   396.3
[8298,]  1980.3  1032.0  1972.8
[8299,]   709.5   470.5   645.8
[8300,]   677.3   428.0   576.5
[8301,]   202.5   203.0   160.0
[8302,]   308.0   233.0   283.5
[8303,]   159.3   129.0   141.0
[8304,]   167.3   114.5   141.0
[8305,]   155.3   123.0   129.8
[8306,]   204.5   150.0   181.0
[8307,]   897.3   566.0   655.0
[8308,]   189.5   178.0   164.3
```

```
[8309,]   139.5   134.0   111.0
[8310,]   112.0   147.5   124.0
[8311,]   698.3   429.0   684.3
[8312,]   174.0   176.0   158.0
[8313,]   477.3   381.5   431.0
[8314,]  1648.3   982.0  1977.8
[8315,]  1117.5   736.0  1448.0
[8316,]  1878.0   997.0  1543.0
[8317,]   317.8   243.0   269.8
[8318,]   274.0   228.0   298.0
[8319,]   702.0   467.8   652.0
[8320,]   861.8   550.0   742.5
[8321,]   416.0   373.0   501.0
[8322,]   870.0   522.3   745.0
[8323,]   943.5   561.0   727.0
[8324,]   693.0   437.0   521.0
[8325,]   253.0   188.8   205.0
[8326,]   857.0   472.0   730.3
[8327,]   152.0   136.0   129.0
[8328,]   769.0   418.3   820.0
[8329,]  2936.3  1499.0  2432.8
[8330,]   968.0   687.0  1032.0
[8331,]   901.0   699.5   951.0
[8332,]  2176.5  1168.0  1855.8
[8333,]   856.0   894.0   776.0
[8334,]  5528.0  2942.8  4879.0
[8335,]   680.3   478.0   435.3
[8336,]   226.0   183.0   186.0
[8337,]   162.0   161.8   200.0
[8338,]   251.0   151.0   275.8
[8339,]   867.0   492.8   806.0
[8340,]   808.0   523.8  1025.0
[8341,]   967.3   525.0   762.3
[8342,]   940.0   524.0   833.0
[8343,]  1230.0   706.8  1047.8
[8344,]  1097.8   723.3  1099.0
[8345,]  4891.0  2458.8  3827.3
[8346,]   801.0   512.8   572.3
[8347,]   289.3   262.5   219.0
[8348,]   233.0   201.3   179.8
[8349,]   366.0   356.0   348.0
[8350,]  2024.8  1051.8  2246.0
```

```
[8351,]   186.0   159.8   123.5
[8352,]   160.0   148.0   151.0
[8353,]   179.0   147.3   155.8
[8354,]   139.3   117.8   110.0
[8355,]   142.0   139.5   142.3
[8356,]   190.0   152.5   158.0
[8357,]   143.3   124.3   115.5
[8358,]   171.0   130.0   129.3
[8359,]   217.0   201.0   185.5
[8360,]   360.5   286.3   227.3
[8361,]   258.0   358.0   226.5
[8362,]   979.0   715.0   766.8
[8363,]   218.0   150.8   183.3
[8364,]   122.0    96.0   116.8
[8365,]   125.0   108.0   109.0
[8366,]   175.3   124.5   155.5
[8367,]   150.0   113.0   132.0
[8368,]   126.0    83.0   113.0
[8369,]   127.0    88.0   106.5
[8370,]   154.0   124.0   155.0
[8371,]   217.0   143.0   179.0
[8372,]   126.5   127.0   117.3
[8373,]   214.0   164.0   157.0
[8374,]   547.0   335.0   420.0
[8375,]   151.8   104.0   108.5
[8376,]   103.0    88.0    97.0
[8377,]   242.0   172.0   228.0
[8378,]   608.0   421.8   536.0
[8379,]   167.0   155.0   178.0
[8380,]   124.0   127.0   118.0
[8381,]   341.8   258.0   336.8
[8382,]   468.0   337.0   411.0
[8383,]   434.0   276.0   368.0
[8384,]   146.3   135.5   124.5
[8385,]   281.0   300.0   236.0
[8386,]   830.0   491.0   690.0
[8387,]   168.5   126.8   130.3
[8388,]   135.0   113.0   122.0
[8389,]   196.0   140.0   159.0
[8390,]   138.0   108.0   136.0
[8391,]   105.0   111.0   109.0
[8392,]   300.0   205.0   246.0
```

```
[8393,]   159.0   101.3   150.3
[8394,]   113.0    72.0    83.0
[8395,]   111.0   107.0   103.0
[8396,]   164.0   134.3   138.0
[8397,]    97.3   103.3    89.0
[8398,]   195.0   155.0   167.0
[8399,]   341.0   205.8   228.0
[8400,]    99.5    87.8    92.3
[8401,]   162.0   186.3   158.0
[8402,]   309.0   224.0   267.0
[8403,]   678.0   395.8   465.8
[8404,]   109.0    99.3    85.0
[8405,]   175.0   136.5   144.0
[8406,]   168.5   135.3   139.0
[8407,]   126.0   104.8    95.0
[8408,]   126.0   106.0   104.3
[8409,]   125.5   125.8    94.3
[8410,]   190.0   155.0   134.0
[8411,]   124.0   114.0    91.3
[8412,]   632.8   278.3   428.3
[8413,]   793.0   427.5   747.3
[8414,]   654.0   376.5   594.8
[8415,]   152.3   101.3   122.8
[8416,]   123.0   109.3   106.3
[8417,]   242.0   204.0   223.8
[8418,]  3203.5  1775.0  2858.3
[8419,]  2163.0  1481.0  2077.5
[8420,]  2252.0  1567.0  2305.3
[8421,]  8023.3  4289.0  8339.0
[8422,]  3708.3  2078.5  3495.0
[8423,]  7515.3  4198.0  5611.0
[8424,]  4347.0  2356.0  3093.5
[8425,]  1723.3   943.5  1482.0
[8426,]  2973.8  1696.0  2429.8
[8427,]  3561.0  2000.0  2721.8
[8428,]  2305.5  1403.5  2004.8
[8429,]  2565.3  1372.0  2034.0
[8430,]  2152.5  1256.0  1587.5
[8431,]  1636.5   919.8  1078.0
[8432,]  2244.8  1185.0  2023.0
[8433,]   280.0   175.0   285.3
[8434,]   124.3   104.3    97.0
```

```
[8435,]   145.0   117.0   106.0
[8436,]   325.0   223.0   362.3
[8437,]   421.0   237.8   374.0
[8438,]   252.8   164.0   233.0
[8439,]   158.3   145.0   152.3
[8440,]   191.0   142.8   191.0
[8441,]   540.3   318.0   324.0
[8442,]   446.0   336.0   450.0
[8443,]  1086.0   617.5   661.0
[8444,]   157.8   136.0   132.0
[8445,]   427.8   286.0   427.0
[8446,]   190.3   138.3   150.8
[8447,]   170.3   174.0   147.0
[8448,]   225.3   181.0   194.0
[8449,]   107.5   111.0   100.3
[8450,]   347.5   219.0   264.0
[8451,]   104.0    82.0    91.0
[8452,]   135.5    87.8   118.3
[8453,]   117.3    89.0    97.0
[8454,]   172.0   121.0   140.0
[8455,]   392.3   291.0   352.5
[8456,]   355.0   249.0   330.0
[8457,]   115.0   133.0    94.0
[8458,]   344.0   266.3   340.3
[8459,]   145.8   118.5   115.0
[8460,]   129.3    99.0   109.0
[8461,]   116.5    95.8    98.3
[8462,]   301.0   241.0   264.0
[8463,]   319.0   253.8   255.0
[8464,]   720.8   445.8   468.0
[8465,]   185.8   139.8   156.0
[8466,]   123.0   134.5   131.0
[8467,]   343.5   290.0   392.8
[8468,]   194.3   144.3   169.0
[8469,]    98.8    74.5    87.0
[8470,]   137.5    95.0   130.0
[8471,]   121.5    85.0    99.5
[8472,]   118.8    98.3    90.8
[8473,]   126.3   144.5   109.5
[8474,]   205.8   178.5   192.0
[8475,]   114.3   101.0   104.5
[8476,]   107.0    85.0    80.0
```

```
[8477,]   132.5    94.0   108.0
[8478,]   130.0   100.0   120.8
[8479,]   103.0    81.0    88.8
[8480,]   145.3   126.0   126.3
[8481,]   253.0   210.0   186.8
[8482,]   148.0   115.0   113.3
[8483,]   216.0   146.0   202.5
[8484,]   143.0   107.3   132.3
[8485,]   108.0    89.0    88.5
[8486,]   123.3    95.0    98.3
[8487,]   108.0   102.0    97.0
[8488,]   124.0   118.0   142.0
[8489,]   107.3    82.0    90.3
[8490,]   127.0    96.5   111.3
[8491,]   125.0    96.0   108.8
[8492,]   156.8   115.0   169.3
[8493,]   118.0    93.8   124.0
[8494,]    95.0    76.0    88.0
[8495,]   150.3   118.0   154.8
[8496,]   156.0   135.0   138.0
[8497,]   125.0   120.0   159.0
[8498,]   118.3   126.0   114.5
[8499,]   201.0   159.8   171.0
[8500,]   559.0   432.0   460.0
[8501,]   172.3   171.0   155.0
[8502,]  3644.0  2213.5  2708.0
[8503,]   168.0   105.0   138.0
[8504,]   111.3    84.0    90.3
[8505,]   380.0   259.5   410.0
[8506,]   176.0   122.0   176.0
[8507,]   314.3   218.0   256.8
[8508,]   128.0    83.3   105.0
[8509,]   196.0   146.0   171.0
[8510,]   149.5   110.0   125.0
[8511,]    99.0    76.5    81.0
[8512,]   225.0   168.0   260.0
[8513,]   323.0   233.0   266.0
[8514,]   109.5    87.3    96.0
[8515,]   111.0    96.0    94.0
[8516,]   132.0   104.0   115.0
[8517,]   113.5    83.8    85.0
[8518,]   109.0    77.3   101.0
```

```
[8519,]   154.0    84.3   131.5
[8520,]   132.0    81.3   120.0
[8521,]   187.0   155.0   231.0
[8522,]   115.0    83.5   102.0
[8523,]   149.0   108.3   116.0
[8524,]   124.0   113.5   123.0
[8525,]   335.0   263.5   258.0
[8526,]   244.0   167.3   177.0
[8527,]   119.0    89.0    97.0
[8528,]   100.0    75.0    91.0
[8529,]    90.8    75.8    85.0
[8530,]   136.0   104.0   110.0
[8531,]    91.0    70.3    93.0
[8532,]    99.5    73.0    87.0
[8533,]   161.0   104.0   140.0
[8534,]   142.0    99.0   120.3
[8535,]   117.0    95.0   113.0
[8536,]   138.0    83.0    96.0
[8537,]   112.0    76.3    98.0
[8538,]   124.3    94.0    87.3
[8539,]    93.0    73.0    89.3
[8540,]   157.0   102.5   118.3
[8541,]   108.0    70.0    81.3
[8542,]   197.0   131.0   169.8
[8543,]   108.0    77.0    82.8
[8544,]   106.0    67.0    89.3
[8545,]    95.0    65.0    92.0
[8546,]    95.0    83.3    90.3
[8547,]   109.8    85.0    88.5
[8548,]   252.0   191.0   172.8
[8549,]   148.0   117.0   118.0
[8550,]   108.0    84.0    95.0
[8551,]   126.0    91.0    91.5
[8552,]   299.0   266.8   243.8
[8553,]   827.0   546.0   614.5
[8554,]   174.0   144.0   148.0
[8555,]   205.0   133.0   158.0
[8556,]   116.0    70.0    74.3
[8557,]   114.0    88.0   100.0
[8558,]   270.0   176.5   204.0
[8559,]   116.0    84.0    84.0
[8560,]   233.0   175.0   212.0
```

```
[8561,]   116.0    79.5    95.0
[8562,]   140.0   107.0   127.8
[8563,]   104.0    63.0    85.0
[8564,]    95.0    64.5    92.0
[8565,]   135.0    86.0   104.0
[8566,]    91.8    72.0    84.0
[8567,]   109.0    77.3    84.0
[8568,]   139.0   105.0   126.0
[8569,]   162.8   119.0   124.0
[8570,]   391.0   271.5   307.0
[8571,]   375.0   269.0   332.8
[8572,]   104.0    72.3    90.0
[8573,]   108.0    75.0    79.0
[8574,]   106.0    71.0    81.0
[8575,]   121.3    93.0   112.0
[8576,]   122.0    93.5   109.0
[8577,]   125.0    85.3   109.3
[8578,]   111.5    66.3    78.0
[8579,]   130.0    85.5   108.0
[8580,]   224.0   174.3   236.5
[8581,]   233.3   126.0   167.0
[8582,]   120.8    87.3    92.0
[8583,]   201.3   138.3   188.0
[8584,]   130.8    81.5   124.0
[8585,]   109.0    75.0    87.0
[8586,]   125.3    83.3   102.5
[8587,]   117.0    93.5   111.0
[8588,]   101.3    69.3    87.0
[8589,]   107.3    90.8    96.0
[8590,]   121.3    93.8   117.0
[8591,]   180.3   130.0   136.0
[8592,]   110.5    75.0    98.0
[8593,]   123.5    91.3   111.5
[8594,]   105.3    71.0    87.0
[8595,]   154.0   111.0   140.0
[8596,]   108.3    85.3    99.8
[8597,]   108.0    77.0    92.0
[8598,]   164.5   133.0   165.0
[8599,]   195.3   139.0   187.5
[8600,]   263.8   184.0   229.5
[8601,]   173.3   117.0   166.0
[8602,]   175.3   124.5   154.0
```

```
[8603,]   160.3   110.0   141.0
[8604,]   123.5    79.0    95.8
[8605,]   107.5    78.5    95.3
[8606,]   144.0   101.0   141.0
[8607,]   147.0    92.0   126.8
[8608,]   134.8    84.0   120.5
[8609,]    99.8    73.0    91.3
[8610,]   106.3    77.0    86.3
[8611,]   123.3    94.8   117.8
[8612,]   110.3    78.0    96.3
[8613,]   191.0   117.0   170.8
[8614,]   151.5   109.5   139.0
[8615,]   128.3    76.0    92.3
[8616,]   111.8    85.0   100.8
[8617,]   113.5    77.8   107.5
[8618,]   186.3   115.0   146.8
[8619,]   339.3   231.0   307.8
[8620,]   144.3    98.8   130.0
[8621,]   155.0   110.0   133.0
[8622,]   104.8    76.0    88.0
[8623,]   148.5    90.5   134.8
[8624,]   183.5   136.0   140.0
[8625,]   175.5   118.0   144.0
[8626,]   290.8   197.3   259.0
[8627,]   103.3    75.0    93.0
[8628,]   127.0    82.0    90.0
[8629,]   134.5    93.0   121.8
[8630,]   177.5   132.5   160.0
[8631,]   100.8    65.3    94.0
[8632,]   388.0   270.3   350.3
[8633,]   180.3   110.0   163.0
[8634,]   323.3   224.5   274.0
[8635,]   161.0   120.0   156.0
[8636,]   322.0   212.8   211.0
[8637,]   165.0   109.3   141.0
[8638,]   129.0    88.5   118.5
[8639,]   227.0   135.3   193.0
[8640,]   110.0    77.3   102.0
[8641,]   184.0   119.0   154.0
[8642,]   180.0   127.5   161.5
[8643,]   501.8   323.5   388.0
[8644,]   330.0   210.5   247.0
```

```
[8645,]   177.0   118.3   152.0
[8646,]   166.5   108.8   142.0
[8647,]   323.0   215.5   284.0
[8648,]   157.0   114.0   127.3
[8649,]   454.3   267.3   270.0
[8650,]   278.0   145.0   218.0
[8651,]   134.0    91.0    98.3
[8652,]   104.8    68.0    91.0
[8653,]   315.0   178.0   290.0
[8654,]   100.0    71.0    90.0
[8655,]   109.0    79.3   100.0
[8656,]    98.0    74.0    90.0
[8657,]   109.0    89.0    94.3
[8658,]   161.5   114.3   151.0
[8659,]   119.0    81.0   103.0
[8660,]   173.0   102.0   170.8
[8661,]   193.0   108.3   140.0
[8662,]   289.0   146.0   277.0
[8663,]   105.0    80.0    98.0
[8664,]   201.8   101.8   180.0
[8665,]   120.0    91.0    99.5
[8666,]   216.0   123.0   184.3
[8667,]   289.0   141.8   226.5
[8668,]   138.0    88.0   104.8
[8669,]   165.0   102.0   121.8
[8670,]   171.3    98.5   131.8
[8671,]   111.0    66.0    86.3
[8672,]   149.0   110.0   136.0
[8673,]   111.0    78.3   105.5
[8674,]   111.0    84.0    88.5
[8675,]   633.0   289.0   466.3
[8676,]   141.0    93.5   123.5
[8677,]   234.5   125.0   188.5
[8678,]   122.0    76.0    96.8
[8679,]   116.0    67.3    89.3
[8680,]    89.5    63.0    95.3
[8681,]   110.0    79.0    91.0
[8682,]   110.0    80.8    94.3
[8683,]   110.5    82.0   120.5
[8684,]   117.0    88.0   118.0
[8685,]   306.0   142.0   269.0
[8686,]    87.3    80.0    87.0
```

```
[8687,]   105.0    74.0    94.5
[8688,]   153.0    91.5   130.0
[8689,]   105.8    69.3    81.0
[8690,]    99.0    66.8    96.0
[8691,]   124.0    82.5   119.0
[8692,]   292.3   135.5   256.0
[8693,]   287.0   186.3   291.0
[8694,]   235.0   105.8   188.5
[8695,]   116.3    77.5   102.0
[8696,]   197.0   116.0   185.0
[8697,]   100.0    73.3    87.5
[8698,]   101.3    70.3    95.0
[8699,]    96.0    62.8    95.0
[8700,]   139.0    90.3   124.3
[8701,]   187.8    90.3   151.0
[8702,]   126.0    72.5   101.0
[8703,]   120.0    73.5   112.3
[8704,]   569.5   244.0   450.0
[8705,]   141.0   101.8   132.0
[8706,]   309.0   186.0   288.5
[8707,]   481.0   246.5   424.0
[8708,]   159.0    92.3   122.0
[8709,]   129.0    84.0   105.0
[8710,]   205.5   130.0   167.0
[8711,]   529.0   249.0   394.0
[8712,]    88.0    74.0    81.3
[8713,]    96.0    67.0    83.0
[8714,]   143.3    95.0   131.0
[8715,]   260.0   189.0   258.0
[8716,]   144.0    94.0   116.0
[8717,]   122.3    78.0   104.0
[8718,]    93.0    62.0    82.5
[8719,]   102.0    64.0    78.0
[8720,]   119.0    95.5   110.0
[8721,]   148.0    94.0   108.5
[8722,]   105.0    75.0    96.0
[8723,]   166.3    99.3   136.0
[8724,]   211.0   147.0   174.5
[8725,]   141.0    85.0   122.0
[8726,]   111.0    81.0    91.0
[8727,]   111.0    76.0    96.0
[8728,]   140.0   101.0   126.5
```

```
[8729,]   456.5   283.5   361.5
[8730,]   131.0    90.0   100.8
[8731,]   226.0   146.0   191.0
[8732,]   105.5    74.3    84.0
[8733,]   121.0    76.0    95.8
[8734,]   128.0    88.0    99.3
[8735,]   506.5   332.3   336.8
[8736,]   171.0   122.0   153.5
[8737,]   132.0    92.0   102.0
[8738,]   139.0    92.3   115.3
[8739,]   110.0    76.0    86.5
[8740,]   134.0    89.0   113.8
[8741,]   121.8    78.8    95.8
[8742,]   216.5   138.0   182.5
[8743,]    94.5    72.0    86.8
[8744,]    89.5    66.8    67.5
[8745,]   271.3   162.0   189.8
[8746,]   191.8   131.0   145.0
[8747,]   137.5    96.0   118.3
[8748,]   329.0   223.8   266.0
[8749,]    96.3    69.5    84.0
[8750,]   103.5    71.3    85.0
[8751,]   182.8   122.3   170.0
[8752,]   228.8   167.0   225.0
[8753,]   129.8    67.0    82.0
[8754,]   109.0    69.0    80.0
[8755,]   114.0    73.3    85.3
[8756,]    93.8    75.0    87.0
[8757,]   109.8    78.3    96.0
[8758,]   137.5    97.3   110.5
[8759,]   115.3    76.0    97.0
[8760,]   136.0   109.5   115.0
[8761,]   121.8    82.8   102.5
[8762,]   117.3    82.5    96.0
[8763,]   106.0    84.3   101.0
[8764,]    93.5    74.0    98.5
[8765,]   277.0   166.3   187.0
[8766,]   102.8    82.0   108.0
[8767,]   117.8    80.3   108.3
[8768,]   114.3    83.0    93.0
[8769,]   107.5    75.0    87.0
[8770,]   172.3   122.3   148.3
```

```
[8771,]   139.3    97.0   116.0
[8772,]   451.3   240.0   250.0
[8773,]   381.5   262.3   270.0
[8774,]   238.3   204.0   267.0
[8775,]   581.0   419.0   495.0
[8776,]   375.0   231.3   306.5
[8777,]   316.5   234.0   409.0
[8778,]   155.8   125.0   138.0
[8779,]   144.5   109.5   126.5
[8780,]   155.3   104.0   141.0
[8781,]   262.3   183.0   228.0
[8782,]    92.8    62.0    82.5
[8783,]    80.5    72.0    73.0
[8784,]    89.3    67.0    94.0
[8785,]   116.5    85.3    99.0
[8786,]   102.5    63.0    71.0
[8787,]   121.3    80.0   107.0
[8788,]   119.5    75.3    95.3
[8789,]   119.5    87.0   108.0
[8790,]   118.3    91.0    90.0
[8791,]   153.3   101.3   132.5
[8792,]   169.5   115.0   150.0
[8793,]   101.5    82.0    81.3
[8794,]   144.3    99.5   107.0
[8795,]   127.5   119.0   124.0
[8796,]   209.0   149.0   160.0
[8797,]   206.8   145.8   175.3
[8798,]   958.0   580.0   670.5
[8799,]   121.0    91.0   105.8
[8800,]   228.3   141.3   192.3
[8801,]   106.0    75.0    90.0
[8802,]   105.0    83.0    89.0
[8803,]   152.8   137.5   171.5
[8804,]   155.0   103.0   139.5
[8805,]   113.0    96.5   103.8
[8806,]   184.5   122.3   143.5
[8807,]   215.0   178.8   212.3
[8808,]   570.0   384.3   440.8
[8809,]   111.3    80.8   112.8
[8810,]   114.0    96.0   104.8
[8811,]    93.0    78.3    86.0
[8812,]   104.5    84.3    94.3
```

```
[8813,]   100.0    65.5    82.8
[8814,]    94.0    75.0    72.0
[8815,]   109.8    74.3    97.0
[8816,]   120.0    86.8   108.3
[8817,]   125.0    98.3    97.0
[8818,]   715.8   473.8   549.0
[8819,]   111.0    76.3    99.3
[8820,]   110.0    83.3    81.0
[8821,]   181.5   105.5   147.0
[8822,]   109.0    79.3    93.0
[8823,]   118.0    93.8    98.0
[8824,]   127.0    85.8   119.0
[8825,]   111.0    73.0    83.3
[8826,]   108.0    78.3   105.0
[8827,]   104.3    83.0    96.0
[8828,]   167.0   117.0   161.3
[8829,]   113.0    88.5   102.0
[8830,]   124.0    90.0   118.0
[8831,]    98.0    65.0    76.3
[8832,]   111.0    77.8    82.0
[8833,]   109.0    79.0    85.0
[8834,]   118.5   101.0   104.5
[8835,]  3425.0  2145.3  3439.0
[8836,]   103.0    74.0    98.0
[8837,]   128.0   108.0   105.5
[8838,]   301.0   202.3   243.0
[8839,]   515.0   349.0   402.0
[8840,]   118.8    93.0    90.0
[8841,]   159.0    95.3   118.8
[8842,]   103.0    65.0    85.0
[8843,]   112.8    83.0    86.0
[8844,]   146.0   120.0   128.3
[8845,]   111.0    76.0    79.0
[8846,]   108.5    79.0   109.0
[8847,]   103.0    70.0    71.3
[8848,]   186.0   114.0   140.0
[8849,]    90.0    65.0    86.0
[8850,]    93.0    73.3    86.5
[8851,]    96.0    69.0    84.0
[8852,]   101.0    78.0    84.0
[8853,]   116.0    78.3    99.3
[8854,]   113.0    79.0   105.0
```

```
[8855,]   208.5   144.0   195.3
[8856,]   104.0    80.5   103.3
[8857,]   196.0   139.0   180.0
[8858,]   125.3    86.0    96.5
[8859,]   112.0    80.3    91.3
[8860,]   147.0    94.0   114.3
[8861,]   107.5    79.0    90.8
[8862,]   113.0    84.0    89.3
[8863,]    97.0    64.3    81.5
[8864,]    86.8    68.5    74.3
[8865,]   197.0   123.8   142.5
[8866,]   112.0    71.0    98.5
[8867,]   171.0   117.3   143.3
[8868,]   108.0    91.0    81.0
[8869,]   115.0    93.5    97.3
[8870,]   171.8   129.8   158.5
[8871,]   129.0    86.5    93.5
[8872,]   104.0    76.3    85.8
[8873,]   110.0    81.3    99.3
[8874,]   122.0    88.3    99.3
[8875,]   107.0    85.8    86.3
[8876,]   176.0   138.0   160.5
[8877,]   110.3    84.3    80.8
[8878,]   209.0   171.0   193.0
[8879,]   127.0    89.0   126.0
[8880,]   111.3    73.5    92.5
[8881,]   100.0    71.0    91.0
[8882,]   121.0    80.5   108.0
[8883,]   132.5   100.0   115.5
[8884,]   112.0    88.0    96.0
[8885,]   247.0   158.8   217.0
[8886,]   153.5   108.0   114.0
[8887,]   104.0    81.0    99.0
[8888,]    91.0    70.0    91.0
[8889,]   115.3    84.0    94.0
[8890,]   117.0    96.0   102.5
[8891,]    95.0    81.8    94.0
[8892,]   136.5    98.0   116.0
[8893,]   108.0    75.0    95.0
[8894,]   101.0    64.3    93.0
[8895,]   156.8   105.0   122.0
[8896,]   113.0    87.0   102.3
```

```
[8897,]   131.0   100.0   118.0
[8898,]   194.8   152.0   168.0
[8899,]   210.0   123.0   161.0
[8900,]   108.0    75.8    93.0
[8901,]    97.0    66.0    81.0
[8902,]   102.3    79.0    86.0
[8903,]   126.3    98.0   109.0
[8904,]   100.3    75.0    75.0
[8905,]   132.0    87.0   100.0
[8906,]   122.3    92.8   119.0
[8907,]   104.8    77.0    87.0
[8908,]   379.0   266.0   300.8
[8909,]   135.8    87.3   104.0
[8910,]    93.5    67.0    81.0
[8911,]    96.5    65.0    91.0
[8912,]   369.8   271.8   274.0
[8913,]   243.3   184.0   211.0
[8914,]   212.5   157.0   187.3
[8915,]   124.0    94.0   105.0
[8916,]   110.0    69.0    90.0
[8917,]    89.5    66.0    77.3
[8918,]    90.3    74.0    84.0
[8919,]   156.0   105.0   116.0
[8920,]    90.3    65.0    79.0
[8921,]   124.3    84.3   103.8
[8922,]    89.3    65.8    83.0
[8923,]   143.8    83.0   116.3
[8924,]   138.8    99.3   125.8
[8925,]    93.5    78.3    92.5
[8926,]    91.8    74.3    83.8
[8927,]   120.8    84.0    95.0
[8928,]   111.3    64.0    75.3
[8929,]   166.0   110.0   141.0
[8930,]   128.8    82.8   101.3
[8931,]   847.0   506.0  1371.0
[8932,]   203.3   143.0   211.0
[8933,]   165.0   116.3   136.0
[8934,]   146.0    91.0   132.0
[8935,]   132.3    84.0   119.0
[8936,]   127.0    86.0   111.5
[8937,]   117.0   101.0    99.0
[8938,]   355.5   245.5   312.0
```

```
[8939,]   176.0   153.0   143.5
[8940,]   126.0   109.0   105.0
[8941,]   131.3   119.3   125.0
[8942,]   649.0   361.0   491.3
[8943,]   758.0   439.0   587.0
[8944,]   163.5   117.3   127.0
[8945,]   109.0    82.0    86.0
[8946,]   169.0   119.0   133.0
[8947,]   125.5    95.3   109.0
[8948,]   156.0   132.0   126.8
[8949,]   241.0   208.0   198.0
[8950,]  1404.3   886.3  1509.0
[8951,]   387.0   303.0   351.0
[8952,]   880.0   610.0   814.0
[8953,]   200.0   150.3   189.0
[8954,]   116.0   108.0   114.5
[8955,]   140.0   126.0   131.0
[8956,]   191.0   156.0   169.0
[8957,]   184.0   147.0   170.0
[8958,]   146.0   126.0   128.0
[8959,]   347.0   322.0   319.0
[8960,]  1369.8   938.8  1548.8
[8961,]   883.0   645.0  1198.0
[8962,]   172.0   140.8   156.8
[8963,]   368.5   275.0   288.3
[8964,]   125.0   114.5   116.8
[8965,]   121.0   119.3   107.5
[8966,]   157.5   134.0   138.8
[8967,]   199.0   134.8   165.0
[8968,]   127.0   106.8   117.0
[8969,]   240.3   283.0   194.8
[8970,]  1747.0  1185.8  1844.5
[8971,]   164.0   162.3   134.5
[8972,]   159.0   156.8   168.0
[8973,]   160.0   202.8   132.0
[8974,]   243.0   240.5   255.3
[8975,]   133.0   136.5   134.5
[8976,]   137.0   116.0   121.8
[8977,]   209.0   168.3   181.5
[8978,]   423.0   283.5   332.3
[8979,]   305.0   278.0   294.3
[8980,]   786.0   545.0   908.5
```

```
[8981,]   850.3   548.0   955.0
[8982,]   399.0   288.0   443.0
[8983,]   441.0   307.3   353.0
[8984,]   367.5   275.0   369.0
[8985,]   176.0   169.0   155.3
[8986,]   243.0   212.8   228.0
[8987,]   151.0   131.0   137.0
[8988,]   183.0   130.0   193.3
[8989,]   139.0   138.5   124.0
[8990,]   194.5   175.0   152.0
[8991,]   517.0   384.0   452.5
[8992,]   687.0   407.3   609.0
[8993,]   211.0   214.0   207.0
[8994,]   478.5   305.0   360.3
[8995,]   480.0   351.0   381.0
[8996,]   151.0   138.0   129.0
[8997,]   147.3   131.3   134.0
[8998,]   163.0   131.0   133.0
[8999,]   119.0   115.0    97.0
[9000,]   115.3   180.0    98.8
[9001,]   598.0   532.0   495.0
[9002,]   311.0   228.0   228.0
[9003,]   314.3   214.0   254.5
[9004,]   121.0   102.0   107.0
[9005,]   119.0   145.0   104.0
[9006,]   460.5   310.3   319.8
[9007,]   248.0   168.0   227.0
[9008,]   171.0   113.0   145.0
[9009,]    97.3    83.3   101.5
[9010,]   110.3    88.0    97.0
[9011,]   124.5   138.0   112.0
[9012,]  4131.3  2370.8  2861.8
[9013,]   203.3   160.0   169.0
[9014,]   220.5   197.0   161.0
[9015,]   216.0   146.5   193.3
[9016,]   112.5    80.0    93.0
[9017,]   143.3   110.0   124.0
[9018,]   117.0    93.5   117.5
[9019,]   148.3   126.0   140.0
[9020,]   147.3   117.3   140.0
[9021,]   150.0   107.3   105.0
[9022,]   134.5   108.8   116.0
```

```
[9023,]   149.5   123.5   152.0
[9024,]   140.5   101.5   114.0
[9025,]   116.5    91.3   103.0
[9026,]   142.3   167.5   117.8
[9027,]   326.3   219.5   269.5
[9028,]   207.8   138.3   162.5
[9029,]   144.3   130.5   118.5
[9030,]   555.3   311.8   371.0
[9031,]   107.0    87.5   108.0
[9032,]   116.5    88.3   100.5
[9033,]   130.3    98.0   104.0
[9034,]   131.8    93.3    96.3
[9035,]   103.0   108.0    88.3
[9036,]   200.8   215.8   153.3
[9037,]   498.5   458.0   399.0
[9038,]  1081.5   689.0   899.3
[9039,]   138.8   130.5   109.3
[9040,]   165.8   150.0   130.0
[9041,]   136.8   141.0   128.3
[9042,]   142.5   123.0    99.5
[9043,]   301.3   192.0   220.3
[9044,]   206.5   140.0   188.3
[9045,]   120.5   111.5   126.5
[9046,]   129.0   170.0    97.5
[9047,]  1079.0   818.0   878.0
[9048,]  1242.5   915.5  1098.0
[9049,]   194.0   166.0   153.3
[9050,]   106.5   132.0   101.0
[9051,]   140.8   163.8   125.0
[9052,]   204.0   147.0   138.3
[9053,]   149.3   192.0   121.0
[9054,]   500.5   303.3   436.0
[9055,]   108.3    85.0    92.8
[9056,]   107.5    96.5    93.0
[9057,]   590.5   392.0   469.0
[9058,]   130.8   111.0    99.3
[9059,]   123.5   122.3   116.0
[9060,]   135.5   132.0   139.0
[9061,]   125.8   183.0   133.3
[9062,]   271.0   234.0   265.0
[9063,]   407.0   283.0   364.0
[9064,]   233.0   171.0   145.3
```

```
[9065,]   244.0   171.5   159.0
[9066,]   220.0   215.0   181.0
[9067,]   513.3   427.0   353.0
[9068,]   776.0   576.3   525.0
[9069,]   937.0   676.0   776.0
[9070,]   943.8   644.0   891.3
[9071,]   564.0   417.0   488.0
[9072,]   489.0   350.0   424.0
[9073,]   324.0   263.0   351.8
[9074,]   161.0   115.5   149.0
[9075,]   230.0   188.0   237.0
[9076,]   183.0   131.3   178.8
[9077,]   155.8   111.8   131.0
[9078,]   389.0   284.3   343.0
[9079,]   133.0   108.3   103.3
[9080,]   252.5   189.3   234.0
[9081,]   109.0    82.0    90.0
[9082,]   348.0   246.0   294.3
[9083,]   211.5   127.5   143.0
[9084,]   106.0    93.3    90.0
[9085,]   231.0   163.3   200.0
[9086,]   147.3    98.5   135.3
[9087,]   125.0   118.3   113.0
[9088,]   479.0   354.0   476.0
[9089,]   248.8   184.8   223.0
[9090,]   114.0    85.3    87.8
[9091,]   125.0    86.0    98.3
[9092,]   148.5    92.0   121.5
[9093,]   140.0    88.5   100.3
[9094,]   170.0   182.5   143.5
[9095,]   662.8   462.8   553.0
[9096,]   190.0   154.0   156.3
[9097,]   120.0   127.0   108.0
[9098,]   171.3   120.5   143.5
[9099,]   109.0   103.0   106.5
[9100,]   156.0   121.0   126.8
[9101,]   118.5    98.3   117.0
[9102,]   186.0   150.0   201.0
[9103,]   173.0   145.0   131.0
[9104,]   192.5   153.5   148.0
[9105,]   217.0   193.0   164.0
[9106,]   225.0   202.0   192.0
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[9107,]   282.8   221.0   231.3
[9108,]   133.0   116.0   115.5
[9109,]   285.0   205.0   246.5
[9110,]   290.3   224.5   281.0
[9111,]   110.0   101.0    89.0
[9112,]   104.0   132.0    97.0
[9113,]  2129.0  1520.0  1716.0
[9114,]    97.0   179.0    84.0
[9115,]   103.0   103.3    87.0
[9116,]    82.0    77.0    89.3
[9117,]   102.5    68.0    95.0
[9118,]    94.0    80.0    88.0
[9119,]    91.0    85.0    80.3
[9120,]   100.0   110.0   126.0
[9121,]   126.0   104.0   100.0
[9122,]    92.0   101.0    80.5
[9123,]   102.5    86.0    87.0
[9124,]   103.0    67.8    88.0
[9125,]   112.0    70.0    83.0
[9126,]    87.5    73.0    80.0
[9127,]    91.0    76.3    76.0
[9128,]    89.0    67.0    78.0
[9129,]    86.0    65.0    77.0
[9130,]    97.0    61.0    74.0
[9131,]   106.0    68.0    68.8
[9132,]    95.3    66.0    81.0
[9133,]    90.0    83.8    90.0
[9134,]    88.0    86.3    81.0
[9135,]    95.0    75.5    83.5
[9136,]    88.0    75.3    76.0
[9137,]    96.0    81.3    90.0
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[9139,]   105.0    91.5    92.0
[9140,]    94.0    79.3    88.0
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[9142,]   101.0    67.3   121.0
[9143,]    96.0    64.5    91.0
[9144,]    88.0    58.5    79.8
[9145,]    98.0    58.0    84.0
[9146,]    85.0    64.0    80.0
[9147,]    86.3    68.8    77.3
[9148,]    85.0    62.0    77.0
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[9151,]   103.0    73.3    81.0
[9152,]   104.0    78.3    86.0
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[9154,]   105.3    96.3   108.0
[9155,]    99.0   104.0    93.3
[9156,]   108.0    93.0    87.0
[9157,]    95.3    84.3    91.5
[9158,]   107.0   100.0   116.3
[9159,]   101.0    93.0   107.5
[9160,]    77.3    76.8   106.3
[9161,]    87.0    92.0   111.3
[9162,]    91.0    96.0   101.8
[9163,]   101.0    93.3   112.3
[9164,]   115.0    95.0   106.3
[9165,]   121.0    97.0    97.3
[9166,]   101.0    69.8    96.3
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[9172,]    85.5    72.0    86.0
[9173,]    90.8    68.0    80.0
[9174,]    90.0    66.3    80.0
[9175,]    96.0    72.0    80.0
[9176,]    84.0    69.0    85.0
[9177,]    84.0    73.0    80.5
[9178,]    95.3    60.0    80.0
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[9186,]    83.8    57.0    86.0
[9187,]   100.3    69.0    78.0
[9188,]    99.3    99.0    88.0
[9189,]    86.3    79.5    86.0
[9190,]    97.5    85.0    89.5
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[9203,]    85.5    55.3    68.0
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[9208,]   102.3    67.8    74.5
[9209,]    95.3    69.3    71.0
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[9211,]    87.3    61.8    80.3
[9212,]    83.5    77.0    88.0
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[9214,]    90.0    61.0    88.3
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[9217,]    89.8    76.0   113.5
[9218,]   101.8    69.0    86.8
[9219,]   110.0    74.3    83.3
[9220,]   103.0    73.0    79.5
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[9222,]    80.0    70.0    79.3
[9223,]    98.0    62.0    72.3
[9224,]    94.0    63.0    80.0
[9225,]    85.0    61.5    79.0
[9226,]    89.0    62.0    81.8
[9227,]    94.8    68.0    77.5
[9228,]    96.0    69.3    89.8
[9229,]   101.0    73.0    98.5
[9230,]    91.0    81.5    90.3
[9231,]    96.0    81.0   110.0
[9232,]    88.0    61.0   115.5
```

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[9235,]    98.0    68.0    90.3
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[9240,]    95.3    71.0    92.0
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[9246,]    94.0    81.0    80.0
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[9248,]    99.0    64.0    91.3
[9249,]    99.0    67.0    83.0
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[9273,]    85.0    70.0   100.0
[9274,]    93.3    65.0    94.0
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[9511,]    98.0    82.0    85.5
[9512,]    89.5    75.0    75.0
[9513,]    88.0    69.0    83.0
[9514,]    83.5    55.0    83.3
[9515,]    78.5    79.0    79.0
[9516,]    88.3    68.0    78.0
[9517,]    89.3    70.8    78.3
[9518,]    83.5    74.0    86.0
[9519,]    98.0    69.0    81.0
[9520,]    81.5    66.3    84.5
[9521,]    92.0    60.0    87.0
[9522,]    95.3    70.5    77.0
[9523,]    81.3    69.0    85.3
[9524,]    74.5    65.0    79.0
[9525,]   103.5    63.3    85.0
[9526,]    91.0    70.0    76.0
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[9527,]    91.3    67.0    78.0
[9528,]    88.0    69.8    77.0
[9529,]    92.5    75.0    83.0
[9530,]    86.5    75.0    88.5
[9531,]    87.8    69.3    79.0
[9532,]    94.8    80.0    78.0
[9533,]    85.3    72.0    80.3
[9534,]    77.8    63.0    81.0
[9535,]    82.3    62.0    67.0
[9536,]    78.0    65.0    82.5
[9537,]    77.5    60.3    71.0
[9538,]    82.3    65.0    66.3
[9539,]    75.8    60.0    67.3
[9540,]    76.3    56.3    75.0
[9541,]    86.3    57.0    81.8
[9542,]    81.0    53.0    69.5
[9543,]    81.0    56.3    77.8
[9544,]    83.8    60.3    72.0
[9545,]    87.0    66.8    81.3
[9546,]    95.0    58.5    77.5
[9547,]    78.0    61.0    79.0
[9548,]    81.0    63.0    68.8
[9549,]    84.0    64.3    78.5
[9550,]    72.3    67.8    69.5
[9551,]    89.0    69.5    83.8
[9552,]    84.0    64.3    76.0
[9553,]    83.0    65.0    79.3
[9554,]    80.8    54.5    79.0
[9555,]    87.0    60.0    79.3
[9556,]    90.0    59.0    82.0
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[9558,]    79.0    61.3    69.0
[9559,]    79.0    59.8    66.0
[9560,]    78.5    58.8    72.5
[9561,]    75.0    65.8    74.0
[9562,]    93.0    62.0    70.0
[9563,]    89.5    59.0    78.8
[9564,]    76.0    61.8    67.0
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[9566,]    81.8    62.0    77.3
[9567,]    80.0    60.0    66.0
[9568,]    94.0    61.0    70.0
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[9573,]   181.0   113.0   146.0
[9574,]   113.0    81.0    92.0
[9575,]   121.8    73.0   103.0
[9576,]   107.0    77.8   107.5
[9577,]   131.0    96.0    99.0
[9578,]   637.5   399.0   515.0
[9579,]   453.0   272.8   353.3
[9580,]   125.0    94.0   118.0
[9581,]   179.3   122.0   154.8
[9582,]   208.0   131.0   170.3
[9583,]   205.0   113.3   146.0
[9584,]   142.0    99.5   126.3
[9585,]   118.0    85.0    93.0
[9586,]   142.0    96.3   114.5
[9587,]   107.0   109.3    92.0
[9588,]   166.0   120.0   115.0
[9589,]   707.0   441.3   645.5
[9590,]   364.0   275.3   417.8
[9591,]   907.0   601.8   831.0
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[9593,]   197.0   149.0   184.0
[9594,]   192.8   109.5   162.0
[9595,]   175.0   120.3   152.8
[9596,]   171.3   113.5   141.3
[9597,]   178.3   118.3   143.3
[9598,]   133.8    92.8   119.3
[9599,]   199.8   216.5   157.5
[9600,]  1487.8   981.0  1450.0
[9601,]   844.0   507.0   694.0
[9602,]   145.8   108.8   116.0
[9603,]   107.5    91.0   109.0
[9604,]   109.8    92.0    94.0
[9605,]   134.5    96.0   114.0
[9606,]   130.8    98.0   103.8
[9607,]   386.0   250.0   264.0
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[9609,]   383.0   363.0   268.5
[9610,]  1097.3   734.0   932.0
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[9614,]   239.0   165.0   223.0
[9615,]   111.3    94.0   106.8
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[9617,]   326.8   269.5   266.0
[9618,]   646.3   437.0   504.8
[9619,]   588.8   395.0   494.0
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[9621,]   558.3   381.0   497.8
[9622,]   430.3   271.0   443.0
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[9624,]   286.5   192.0   268.0
[9625,]   177.0   115.0   139.3
[9626,]   163.0   148.0   148.0
[9627,]   125.0   109.0   122.0
[9628,]   174.0   193.0   131.8
[9629,]   328.5   211.5   245.0
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[9631,]   224.0   190.0   224.5
[9632,]   495.3   307.0   353.0
[9633,]   145.0   131.0   123.0
[9634,]   230.8   198.0   181.5
[9635,]   818.8   531.3   720.0
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[9637,]   216.0   152.0   174.3
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[9639,]   115.3   102.3   110.0
[9640,]   141.5   173.0   106.8
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[9646,]  1016.5   594.3   733.3
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[9649,]   219.8   144.3   198.8
[9650,]   112.0    87.0    99.5
[9651,]   163.0   120.5   127.3
[9652,]   503.3   249.5   267.8
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[9661,]   154.0   120.5   133.0
[9662,]   138.0   114.0   116.3
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[9685,]   168.0   123.8   171.0
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[9693,]   148.0   191.0   134.0
[9694,]   651.0   379.0   528.0
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[9736,]   116.0   108.0   104.0
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[9740,]   167.0   123.0   161.0
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[9742,]   109.0    82.0   105.0
[9743,]   189.0   166.0   189.0
[9744,]   287.0   236.3   265.8
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[9931,]   275.3   179.3   237.8
[9932,]   132.8    71.3    98.0
[9933,]   116.5    80.3   102.0
[9934,]   483.3   269.3   311.5
[9935,]   649.3   322.0   413.0
[9936,]  1015.8   451.0   648.0
[9937,]   261.3   150.5   191.5
[9938,]   172.8   125.3   123.0
[9939,]   181.3   138.3   171.0
[9940,]   122.8    81.8    98.8
[9941,]   101.3    66.5    78.0
[9942,]   123.3    80.3   104.0
[9943,]   131.3    81.5   112.3
[9944,]   100.8    65.0    90.0
[9945,]   228.8   133.3   187.0
[9946,]   103.0    74.8    88.3
```

```
[9947,]   105.8    66.5    84.0
[9948,]   121.3    75.0   109.0
[9949,]   195.5   104.0   161.3
[9950,]   124.0    72.0    92.0
[9951,]   110.3    73.0    88.0
[9952,]   155.3   104.0   117.3
[9953,]   156.8   106.0   116.0
[9954,]   100.3    76.0    91.0
[9955,]   133.0    97.0   115.3
[9956,]   520.5   317.3   412.0
[9957,]   765.5   429.0   620.0
[9958,]  1346.8   686.0  1040.3
[9959,]  5966.8  2432.3  4518.0
[9960,]   931.0   453.0   847.0
[9961,]   239.0   151.0   183.3
[9962,]   148.3    90.8   131.0
[9963,]   161.0    90.0   124.0
[9964,]   187.0   137.0   143.8
[9965,]   181.5   112.3   147.0
[9966,]   339.3   232.0   277.8
[9967,]   362.8   256.0   308.3
[9968,]   733.5   359.3   680.5
[9969,]   295.3   184.0   303.3
[9970,]   171.0    91.0   144.3
[9971,]   251.0   120.3   179.0
[9972,]   128.3    89.0   111.8
[9973,]   654.0   270.0   501.0
[9974,]  1373.0   395.8   822.0
[9975,]   111.3    78.0    91.5
[9976,]   112.0    69.0    79.0
[9977,]   175.0    98.5   136.0
[9978,]   343.5   198.0   285.3
[9979,]   181.0   111.0   150.8
[9980,]   128.0    90.3   132.8
[9981,]   156.5    83.0   143.8
[9982,]   734.0   359.0   527.5
[9983,]   335.0   170.5   266.0
[9984,]   583.0   278.0   446.5
[9985,]   407.0   205.0   370.8
[9986,]   873.0   436.0   696.5
[9987,]   258.0   142.0   216.0
[9988,]   171.0    92.3   149.0
```

```
 [9989,]   111.0    75.5    98.3
 [9990,]   117.3    78.0   103.0
 [9991,]   478.0   221.8   357.0
 [9992,]   434.0   173.0   283.8
 [9993,]   109.0    75.0    98.0
 [9994,]   111.0    69.0    83.0
 [9995,]    99.0    75.5    95.5
 [9996,]    89.0    64.3    78.0
 [9997,]   373.3   215.5   276.0
 [9998,]   423.0   270.3   369.5
 [9999,]   107.0    73.8    91.0
[10000,]   293.3   158.3   187.0
Slot "se.exprs":
<0 x 0 matrix>
Slot "description":
An object of class "MIAME"
Slot "name":
[1] "example"
Slot "lab":
[1] "example"
Slot "contact":
[1] "example\n"
Slot "title":
[1] "affybatch.example"
Slot "abstract":
[1] "this is an example of an AffyBatch. To keep it small we keep only a small corner o
Slot "url":
[1] "www.bioconductor.org"
Slot "samples":
list()
Slot "hybridizations":
list()
Slot "normControls":
list()
Slot "preprocessing":
list()
Slot "other":
list()
Slot "annotation":
[1] ""
Slot "notes":
[1] ""
```

```
Slot "cdfName":
[1] "cdfenv.example"
Slot "nrow":
[1] 100
Slot "ncol":
[1] 100
Slot "phenoData":
An object of class "phenoData"
Slot "pData":
    sample
20A      1
20B      2
10A      3
Slot "varLabels":
Slot "varLabels":$sample
[1] "arbitrary numbering"
```

This will create the `affybatch.example` object of class `AffyBatch`. `print` (or `show`) will display summary information. These objects represent data from one experiment. The `AffyBatch` class combines the information of various *CEL* files with a common *CDF* file. This class is designed to keep information of one experiment. The probe level data is contained in this object.

The data in `affybatch.example` is a small sample of probe sets from 2 sets of duplicate arrays hybridized with different concentrations of the same RNA. This information is part of the `AffyBatch` and can be accessed with the `phenoData` and `pData` methods:

```
> phenoData(affybatch.example)

An object of class "phenoData"
Slot "pData":
    sample
20A      1
20B      2
10A      3
Slot "varLabels":
Slot "varLabels":$sample
[1] "arbitrary numbering"

> pData(affybatch.example)

    sample
20A      1
20B      2
10A      3
```

Several of the functions for plotting summarized probe level data are useful for diagnosing problems with the data. The plotting functions `boxplot` and `hist` have methods for `AffyBatch` objects. Each of these functions presents side-by-side graphical summaries of intensity information from each array. Important differences in the distribution of intensities are often evident in these plots. The function `MAplot` (applied, for example, to `pm(affybatch.example)`), offers pairwise graphical comparison of intensity data. The option `pairs` permits you to chose between all pairwise comparisons (when `TRUE`) or compared to a reference array (the default). These plots can be particularly useful in diagnosing problems in replicate sets of arrays. The function argument `plot.method` can be used to create a MAplot using a smoothScatter, rather than the default method which is to draw every point. To use this option you will need to the *geneplotter* library installed.

4.1 Accessing PM and MM Data

The PM and MM intensities and corresponding *affyID* can be accessed with the `pm`, `mm`, and `probeNames` methods. These will be matrices with rows representing probe pairs and columns representing arrays. The gene name associated with the probe pair in row i can be found in the ith entry of the vector returned by `probeNames`.

```
> Index <- c(1, 2, 3, 100, 1000, 2000)
> pm(affybatch.example)[Index, ]

       20A   20B   10A
[1,] 149.0 118.0 124.0
[2,] 143.5 124.8 116.5
[3,] 132.0 111.0 105.0
[4,] 122.3  90.5 111.3
[5,] 121.0  89.3  98.0
[6,] 120.8  80.3 103.3

> mm(affybatch.example)[Index, ]

       20A   20B    10A
[1,] 847.0 694.0  999.0
[2,] 860.3 667.3 1084.8
[3,] 815.3 650.0 1057.0
[4,] 847.0 615.0  842.0
[5,] 206.0  95.3  154.3
[6,] 120.0  86.5  105.0

> probeNames(affybatch.example)[Index]
```

```
> library(geneplotter)

Loading required package: annotate
KernSmooth 2.22 installed
Copyright M. P. Wand 1997

> data(affybatch.example)
> MAplot(affybatch.example, pairs = TRUE, plot.method = "smoothScatter")
```

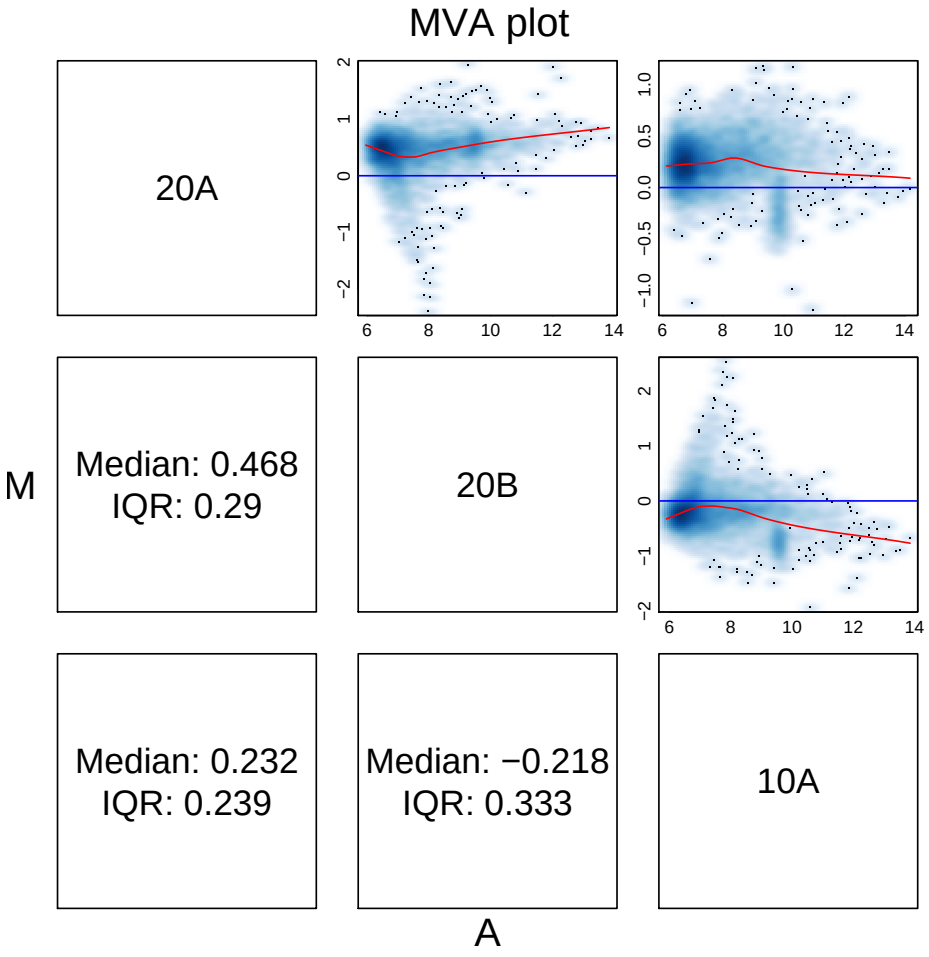

Figure 3: Pairwise MA plots

```
[1] "A28102_at"   "A28102_at"   "A28102_at"   "AB002318_at" "D31815_at"
[6] "D87024_at"
```

`Index` contains six arbitrary probe positions.

Notice that the column names of PM and MM matrices are the sample names and the row names are the *affyID*, e.g. `AB000114_at` and `AB000115_at` together with the probe number (related to position in the target sequence).

```
> sampleNames(affybatch.example)
```

```
[1] "20A" "20B" "10A"
```

Quick example: To see what percentage of the MM are larger than the PM simply type

```
> mean(mm(affybatch.example) > pm(affybatch.example))
```

```
[1] 0.5425
```

The `pm` and `mm` functions can be used to extract specific probe set intensities.

```
> gn <- geneNames(affybatch.example)
> pm(affybatch.example, gn[100])
```

```
               20A    20B    10A
D78156_at1   223.3  148.0  203.0
D78156_at2   149.8  155.5  131.0
D78156_at3   147.3  133.8  145.0
D78156_at4   162.3  131.8  134.0
D78156_at5   459.3  451.0  345.0
D78156_at6   711.0  526.8  601.8
D78156_at7   158.8  142.8  109.0
D78156_at8   219.0  211.3  167.0
D78156_at9   196.0  251.0  182.3
D78156_at10 1715.0 1291.8 1341.3
D78156_at11  710.5  506.3  553.0
D78156_at12  438.0  346.0  282.8
D78156_at13  439.0  311.3  387.0
D78156_at14  114.8   78.0  101.5
D78156_at15  114.0   87.0   89.5
D78156_at16  181.0  122.0  160.0
```

The method `geneNames` extracts the unique *affyID*s. Also notice that the 100th probe set is different from the 100th probe! The 100th probe is not part of the the 100th probe set.

The methods `boxplot`, `hist`, and `image` are useful for quality control. Figure 4 shows kernel density estimates (rather than histograms) of PM intensities for the 1st and 2nd array of the `affybatch.example` also included in the package

4.2 Histograms, Images, and Boxplots

```
> hist(affybatch.example[, 1:2])
```

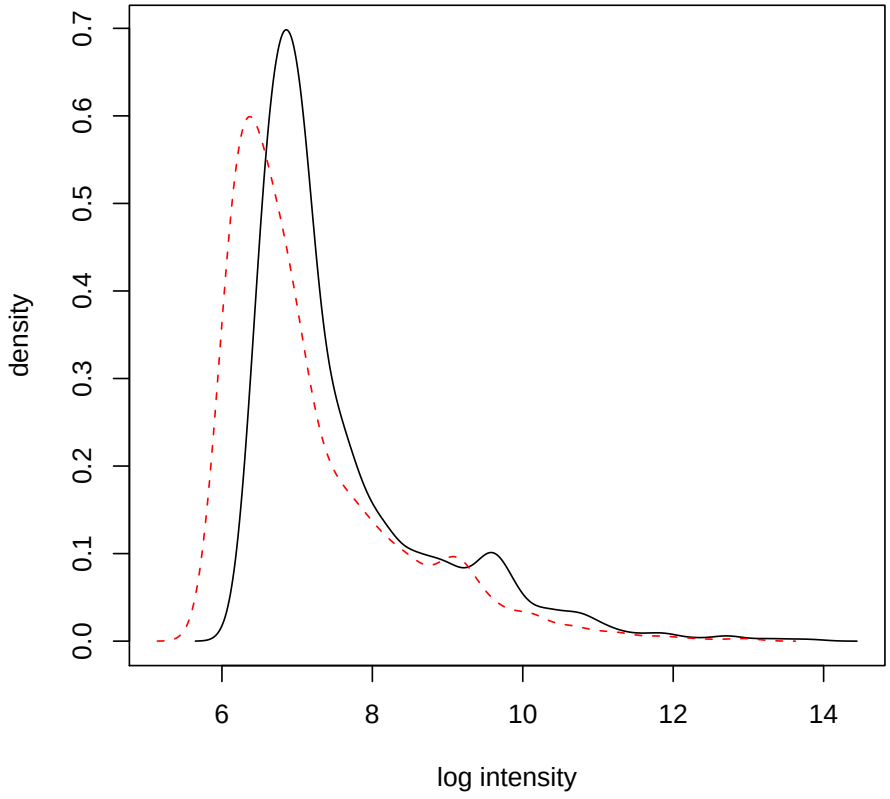

Figure 4: Histogram of PM intensities for 1st and 2nd array

As seen in the previous example, the sub-setting method `[` can be used to extract specific arrays. **NOTE: Sub-setting is different in this version. One can no longer subset by gene. We can only define subsets by one dimension: the columns, i.e. the arrays. Because the `Cel` class is no longer available `[[` is no longer available.**

The method `image()` can be used to detect spatial artifacts. By default we look at log transformed intensities. This can be changed through the `transfo` argument.

These images are quite useful for quality control. We recommend examining these images as a first step in data exploration.

The method `boxplot` can be used to show PM, MM or both intensities. As discussed

```
> par(mfrow = c(2, 2))
> image(affybatch.example)
```

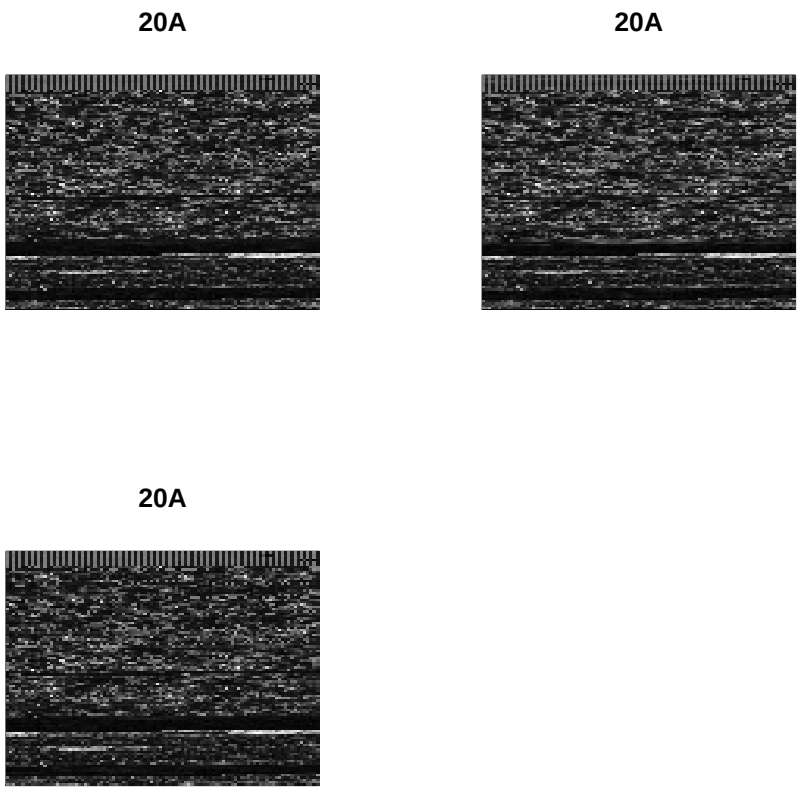

Figure 5: Image of the log intensities.

```
> par(mfrow = c(1, 1))
> boxplot(affybatch.example, col = c(2, 3, 4))
```

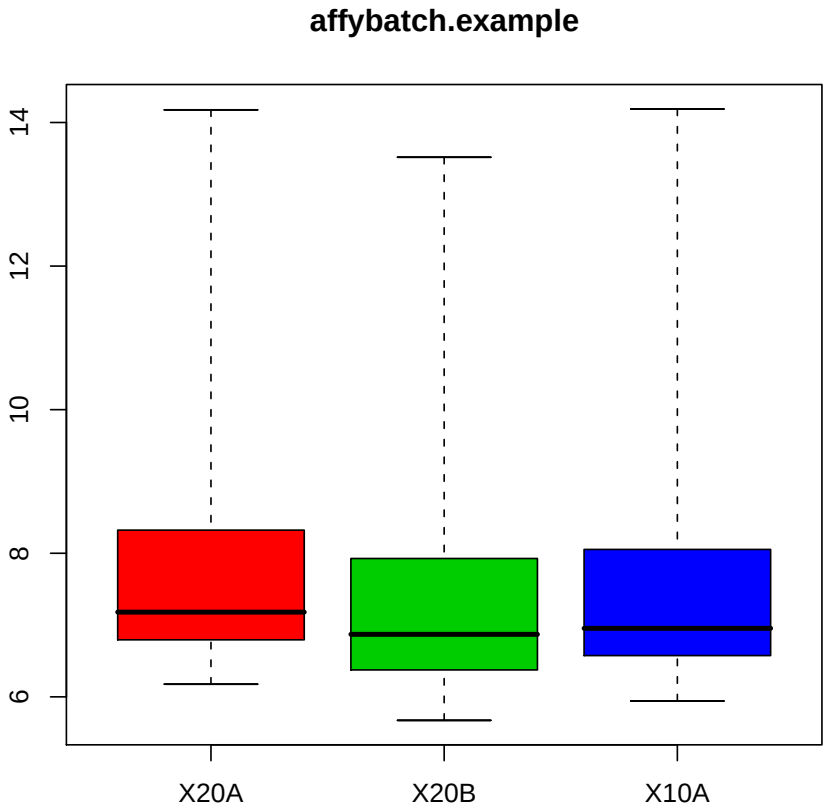

Figure 6: Boxplot of arrays in affybatch.example data.

in the next section this plot shows that we need to normalize these arrays.

4.3 RNA degradation plots

The functions `AffyRNAdeg`, `summaryAffyRNAdeg`, and `plotAffyRNAdeg` aid in assessment of RNA quality. Individual probes in a probeset are ordered by location relative to the 5′ end of the targeted RNA molecule.Affymetrix (1999) Since RNA degradation typically starts from the 5′ end of the molecule, we would expect probe intensities to be systematically lowered at that end of a probeset when compared to the 3′ end. On each chip, probe intensities are averaged by location in probeset, with the average taken over probesets. The function `plotAffyRNAdeg` produces a side-by-side plots of these means, making it easy to notice any 5′ to 3′ trend. The function `summaryAffyRNAdeg` produces a single summary statistic for each array in the batch, offering a convenint measure of the severity of degradation and significance level. For an example

```
> deg <- AffyRNAdeg(affybatch.example)
> names(deg)
```

```
[1] "N"              "sample.names"    "means.by.number" "ses"
[5] "slope"          "pvalue"
```

does the degradation analysis and returns a list with various components. A summary can be obtained using

```
> summaryAffyRNAdeg(deg)
```

```
          20A   20B    10A
slope  0.0767 0.063 0.0842
pvalue 0.1360 0.212 0.0911
```

Finally a plot can be created using `plotAffyRNAdeg`, see Figure 7.

```
> plotAffyRNAdeg(deg)
```

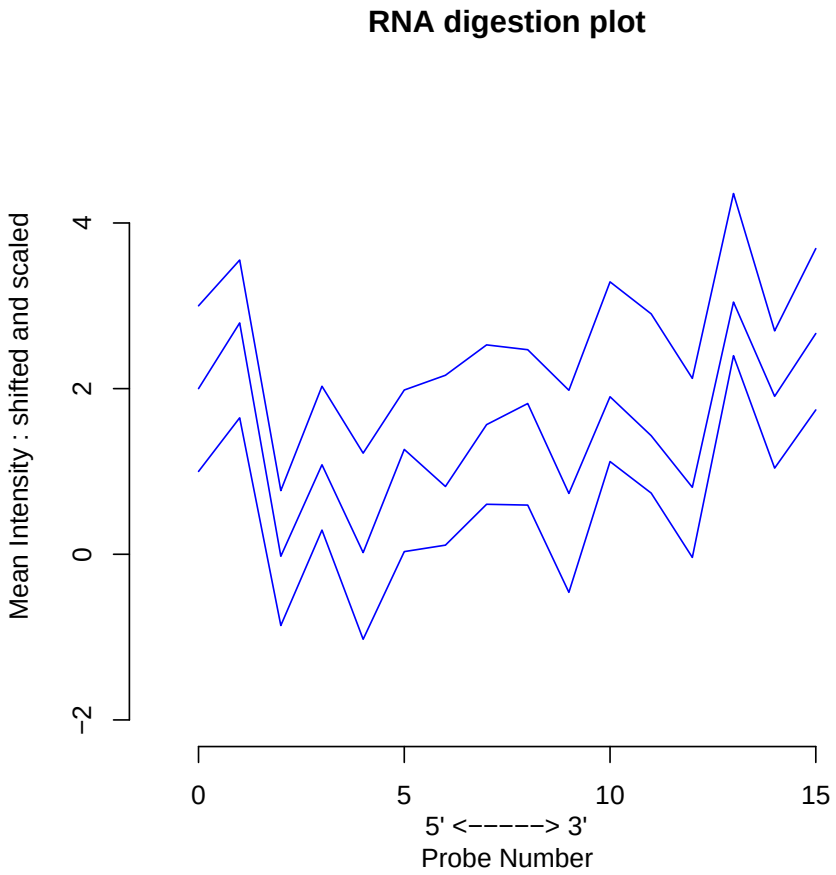

Figure 7: Side-by-side plot produced by plotAffyRNAdeg.

5 Normalization

Various researchers have pointed out the need for normalization of Affymetrix arrays. See for example Bolstad et al. (2003). The method `normalize` lets one normalize at the probe level

```
> affybatch.example.normalized <- normalize(affybatch.example)
```

For an extended example on normalization please refer to the vignette in the affydata package.

6 Classes

`AffyBatch` is the main class in this package. There are three other auxiliary classes that we also describe in this Section.

6.1 AffyBatch

The AffyBatch class has slots to keep all the probe level information for a batch of *Cel* files, which usually represent an experiment. It also stores phenotypic and MIAME information as does the `exprSet` class in the Biobase package (the base package for Bioconductor). In fact, `AffyBatch` extends `exprSet`.

The `exprs` slot contains the a matrix with the columns representing the intensities read from the different arrays. The rows represent the *cel* intensities for all position on the array. The cel intensity with physical coordinates[3] (x, y) will be in row

$$i = x + \texttt{nrow} \times (y - 1)$$

. The `ncol` and `nrow` slots contain the physical rows of the array. Notice that this is different from the dimensions of the `exprs` matrix. The number of row of the `exprs` matrix is equal to `ncol`×`nrow`. We advice the use of the functions `xy2indices` and `indices2xy` to shuttle from X/Y coordinates to indices.

For compatibility with previous versions the accessor method `intensity` exists for obtaining the `exprs` slot.

The `cdfName` slot contains the necessary information for the package to find the locations of the probes for each probe set. See Section 7 for more on this.

[3]Note that in the *.CEL* files the indexing starts at zero while it starts at 1 in the package (as indexing starts at 1 in **R**).

6.2 ProbeSet

The `ProbeSet` class holds the information of all the probes related to an *affyID*. The components are `pm` and `mm`.

The method `probeset` extracts probe sets from `AffyBatch` objects. It takes as arguments an `AffyBatch` object and a vector of *affyIDs* and returns a list of objects of class `ProbeSet`

```
> gn <- geneNames(affybatch.example)
> ps <- probeset(affybatch.example, gn[1:2])
> show(ps[[1]])

ProbeSet object:
  id=A28102_at
  pm= 16 probes x  3  chips
```

The `pm` and `mm` methods can be used to extract these matrices (see below).

This function is general in the way it defines a probe set. The default is to use the definition of a probe set given by Affymetrix in the CDF file. However, the user can define arbitrary probe sets. The argument `locations` lets the user decide the row numbers in the `intensity` that define a probe set. For example, if we are interested in redefining the `AB000114_at` and `AB000115_at` probe sets, we could do the following:

First, define the locations of the PM and MM on the array of the `AB000114_at` and `AB000115_at` probe sets

```
> mylocation <- list(AB000114_at = cbind(pm = c(1, 2, 3), mm = c(4,
+     5, 6)), AB000115_at = cbind(pm = c(4, 5, 6), mm = c(1, 2,
+     3)))
```

The first column of the matrix defines the location of the PMs and the second column the MMs.

Now we are ready to extract the `ProbSets` using the `probeset` function:

```
> ps <- probeset(affybatch.example, genenames = c("AB000114_at",
+     "AB000115_at"), locations = mylocation)
```

Now, `ps` is list of `ProbeSets`. We can see the PMs and MMs of each component using the `pm` and `mm` accessor methods.

```
> pm(ps[[1]])

        20A   20B   10A
[1,]  987.3 603.5 841.8
[2,]  127.3 202.0 118.0
[3,] 1048.8 668.0 958.0
```

```
> mm(ps[[1]])

        20A   20B 10A
[1,]  127.0 164.8 109
[2,] 1050.8 560.0 872
[3,]  130.5  99.0 105

> pm(ps[[2]])

        20A   20B 10A
[1,]  127.0 164.8 109
[2,] 1050.8 560.0 872
[3,]  130.5  99.0 105

> mm(ps[[2]])

        20A   20B   10A
[1,]  987.3 603.5 841.8
[2,]  127.3 202.0 118.0
[3,] 1048.8 668.0 958.0
```

This can be useful in situations where the user wants to determine if leaving out certain probes improves performance at the expression level. It can also be useful to combine probes from different human chips, for example by considering only probes common to both arrays.

Users can also define their own environment for probe set location mapping. More on this in Section 7.

An example of a `ProbeSet` is included in the package. A spike in data set is included in the package in the form of a list of `ProbeSet`s. The help file describes the data set. Figure 8 uses this data set to demonstrate that the MM also detect transcript signal.

7 Location to ProbeSet Mapping

On Affymetrix GeneChip arrays, several probes are used to represent genes in the form of probe sets. From a *CEL* file we get for each physical location, or cel, (defined by x and y coordinates) an intensity. The *CEL* file also contains the name of the *CDF* file needed for the location-probe-set mapping. The *CDF* files store the probe set related to each location on the array. The computation of a summary expression values from the probe intensities requires a fast way to map an *affyid* to corresponding probes. We store this mapping information in **R** environments[4]. They only contain a part of the information that can be found in the *CDF* files. The *cdfenvs* are sufficient to perform the numerical

[4]Please refer to the **R** documentation to know more about environments.

```
> data(SpikeIn)
> pms <- pm(SpikeIn)
> mms <- mm(SpikeIn)
> par(mfrow = c(1, 2))
> concentrations <- matrix(as.numeric(sampleNames(SpikeIn)), 20,
+     12, byrow = TRUE)
> matplot(concentrations, pms, log = "xy", main = "PM", ylim = c(30,
+     20000))
> lines(concentrations[1, ], apply(pms, 2, mean), lwd = 3)
> matplot(concentrations, mms, log = "xy", main = "MM", ylim = c(30,
+     20000))
> lines(concentrations[1, ], apply(mms, 2, mean), lwd = 3)
```

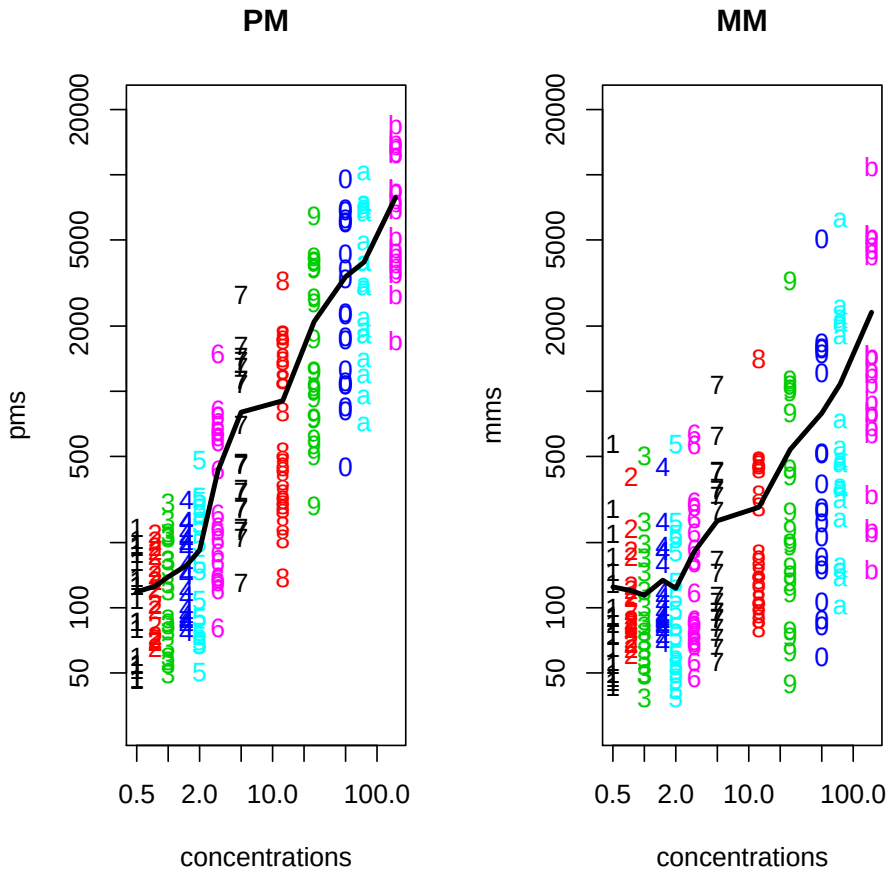

Figure 8: PM and MM intensities plotted against SpikeIn concentration

processing methods included in the package. For each *CDF* file there is package, available from `http://www.bioconductor.org/data/metaData.html`, that contains exactly one of these environments. The *cdfenvs* we store the x and y coordinates as one number (see above).

In instances of *AffyBatch*, the *cdfName* slot gives the name of the appropriate *CDF* file for arrays represented in the `intensity` slot. The functions `read.celfile`, `read.affybatch`, and `ReadAffy` extract the *CDF* filename from the *CEL* files being read. Each *CDF* file corresponds to exactly one environment. The function `cleancdfname` converts the Affymetrix given *CDF* name to a Bioconductor environment and annotation name. Here are two examples:

These give environment names:

```
> cat("HG_U95Av2 is", cleancdfname("HG_U95Av2"), "\n")

HG_U95Av2 is hgu95av2cdf

> cat("HG-133A is", cleancdfname("HG-133A"), "\n")

HG-133A is hg133acdf
```

This gives annotation name:

```
> cat("HG_U95Av2 is", cleancdfname("HG_U95Av2", addcdf = FALSE),
+     "\n")

HG_U95Av2 is hgu95av2
```

An environment representing the corner of an Hu6800 array is available with the package. In the following, we load the environment, look at the names for the first 5 objects defined in the environment, and finally look at the first object in the environment:

```
> data(cdfenv.example)
> ls(cdfenv.example)[1:5]

[1] "A28102_at"   "AB000114_at" "AB000115_at" "AB000220_at" "AB002314_at"

> get(ls(cdfenv.example)[1], cdfenv.example)

       pm  mm
 [1,] 102 203
 [2,] 104 205
 [3,] 106 207
 [4,] 108 209
 [5,] 110 211
 [6,] 112 213
```

```
 [7,] 114 215
 [8,] 116 217
 [9,] 118 219
[10,] 120 221
[11,] 122 223
[12,] 124 225
[13,] 126 227
[14,] 128 229
[15,] 130 231
[16,] 132 233
```

The package needs to know what locations correspond to which probe sets. The `cdfName` slot contains the necessary information to find the environment with this location information. The method `getCdfInfo` takes as an argument an `AffyBatch` and returns the necessary environment. If `x` is an `AffyBatch`, this function will look for an environment with name `cleancdfname(x@cdfName)`. For example:

The call to `data` loads an `AffyBatch` containing an artificial dataset.

```
> print(affybatch.example@cdfName)

[1] "cdfenv.example"

> myenv <- getCdfInfo(affybatch.example)
> ls(myenv)[1:5]

[1] "A28102_at"   "AB000114_at" "AB000115_at" "AB000220_at" "AB002314_at"
```

Notice `affybatch.example` must be loaded (see above). Now lets look at `affybatch.example`

```
> print(affybatch.example@cdfName)

[1] "cdfenv.example"

> myenv <- getCdfInfo(affybatch.example)
> ls(myenv)[1:5]

[1] "A28102_at"   "AB000114_at" "AB000115_at" "AB000220_at" "AB002314_at"
```

Notice `affybatch.example` should be loaded already as abouve.

By default we search for the environment first in the global environment, then in a package named `cleancdfname(x@cdfName)`, and finally in the `data` directory of the `affy` package. This order can be changed through the options (see Section 8).

Various methods exist to obtain locations of probes as demonstrated in the following examples:

```
> Index <- pmindex(affybatch.example)
> names(Index)[1:2]

[1] "A28102_at"   "AB000114_at"

> Index[1:2]

$A28102_at
 [1] 102 104 106 108 110 112 114 116 118 120 122 124 126 128 130 132

$AB000114_at
 [1] 134 136 138 140 142 144 146 148 150 152 154 156 158 160 162 164
```

pmindex returns a list with probe set names as names and locations in the components. We can also get specific probe sets:

```
> pmindex(affybatch.example, genenames = c("AB000114_at", "AB000115_at"))

$AB000114_at
 [1] 134 136 138 140 142 144 146 148 150 152 154 156 158 160 162 164

$AB000115_at
 [1] 166 168 170 172 174 176 178 180 182 184 186 188 190 192 194 196
```

The locations are ordered from 5' to 3' on the target transcript. The function mmindex performs in a similar way:

```
> mmindex(affybatch.example, genenames = c("AB000114_at", "AB000115_at"))

$AB000114_at
 [1] 235 237 239 241 243 245 247 249 251 253 255 257 259 261 263 265

$AB000115_at
 [1] 267 269 271 273 275 277 279 281 283 285 287 289 291 293 295 297
```

They both use the method indexProbes

```
> indexProbes(affybatch.example, which = "pm")[1]

$A28102_at
 [1] 102 104 106 108 110 112 114 116 118 120 122 124 126 128 130 132

> indexProbes(affybatch.example, which = "mm")[1]

$A28102_at
 [1] 203 205 207 209 211 213 215 217 219 221 223 225 227 229 231 233
```

```
> indexProbes(affybatch.example, which = "both")[1]

$A28102_at
 [1] 102 104 106 108 110 112 114 116 118 120 122 124 126 128 130 132 203 205 207
[20] 209 211 213 215 217 219 221 223 225 227 229 231 233
```

The `which="both"` options returns the location of the PMs followed by the MMs.

8 Configuring the package options

Package-wide options can be configured, as shown below through examples.

- Getting the names for the options:

```
> opt <- getOption("BioC")
> affy.opt <- opt$affy
> print(names(affy.opt))

[1] "compress.cdf"     "compress.cel"     "use.widgets"      "probesloc"
[5] "bgcorrect.method" "normalize.method" "pmcorrect.method" "summary.method"
[9] "xy.offset"
```

- Default processing methods:

```
> opt <- getOption("BioC")
> affy.opt <- opt$affy
> affy.opt$normalize.method <- "constant"
> opt$affy <- affy.opt
> options(BioC = opt)
```

- Compression of files: if you are always compressing your CEL files, you might find annoying to specify it each time you call a reading function. It can be specified once for all in the options.

```
> opt <- getOption("BioC")
> affy.opt <- opt$affy
> affy.opt$compress.cel <- TRUE
> opt$affy <- affy.opt
> options(BioC = opt)
```

- Priority rule for the use of a cdf environment: The option *probesloc* is a list. Each element of the list is it self a list with two elements *what* and *where*. When looking for the information related to the locations of the probes on the array, the elements in the list will be looked at sequentially. The first one leading to the information is used (an error message is returned if none permits to find the information). The element *what* can be one of *package*, *environment*.

9 Where can I get more information?

There are several other vignettes addressing more specialised topics related to the `affy` package.

- **affy: Custom Processing Methods (HowTo)**: A description of how to use custom preprocessing methods with the package. This document gives examples of how you might write your own preprocessing method and use it with the packae.
- **affy: Built-in Processing Methods**: A document giving fuller descriptions of each of the preprocessing methods that are available within the `affy` package.
- **affy: Import Methods (HowTo)**: A discussion of the data structures used and how you might import non standard data into the package.
- **affy: Loading Affymetrix Data (HowTo)**: A quick guide to loading Affymetrix data into R.
- **affy: Automatic downloading of cdfenvs (HowTo)**: How you can configure the automatic downloading of the appropriate *cdfenv* for your analysis.

A Previous Release Notes

A.1 Changes in versions 1.6.x

There were very few changes.

- The function `MAplot` has been added. It works on instances of AffyBatch. You can decide if you want to make all pairwise MA plots or compare to a reference array using the pairs argument.
- Minor bugs fixed in the parsers.
- The path of celfiles is now removed by ReadAffy.

A.2 Changes in versions 1.5.x

There are some minor differences in what you can do but little functionality has disappeared. Memory efficiency and speed have improved.

- The widgets used by ReadAffy have changed.
- The path of celfiles is now removed by ReadAffy.

A.3 Changes in versions 1.4.x

There are some minor differences in what you can do but little functionality has disappeared. Memory efficiency and speed have improved.

- For instances of `AffyBatch` the subsetting has changed. For consistency with `exprSets` one can only subset by the second dimension. So to obtain the first array, `abatch[1]` and `abatch[1,]` will give warnints (errors in the next release). The correct code is `abatch[,1]`.
- mas5calls is now faster and reproduces Affymetrix's official version much better.
- If you use `pm` and `mm` to get the entire set of probes, e.g. by typing `pm(abatch)` then the method will be, on average, about 2-3 times faster than in version 1.3.

A.4 Changes in Version 1.3.x

What's new?

- `mas5calls` method added to get Affymetrix's P/M/A calls.
- `Cel` and `Cdf` classes no longer supported. Function, `read.celfile` and other `Cel` related methods and functions removed. Most `Cdf` related functions have moved to the *makecdfenv* package.
- Big speed and memory improvement of `ReadAffy`, `read.affybatch`, and `justRMA`.
- Function `read.probematrix` added. It reads CEL files and returns a matrix of PM, MM, or both. This function is more memory efficient than `read.affybatch`.
- Package no longer depends on `affydata` package. For this reason some examples have been moved from this vignette to the `affydata` vignette.
- The previously deprecated `express` function has been completely removed.
- Most normalization routines for AffyBatches can now be called with the parameter `type` which specifies whether the normalization should be applied as a PM-only, MM-only, both PM and MM together or PM and MM separately.

A.5 Changes in Version 1.2.x

What's new?

- slot 'preprocessing' of the MIAME attribute used to store normalization step information [list returned; more complex but organised structures (like a class) are under evaluation.]

- tuning of the implementations of the MAS5.0 methods (bgcorrect.mas, ...). [5]
- method `plot.ProbeSet`, an alternative to barplot, to plot probe level information.
- parameter 'scale' in the method barplot for ProbeSet. All the barplots are scaled to each other.
- New functions 'xy2indices' and 'indices2xy' to shuttle from x/y pos to indices (like the ones in cdfenvs) (and reverse).
- The documentation for normalization has been improved.
- Due to some new protocols `?AffyBatch` no longer will give you the help file. One needs to type `help("AffyBatch-class")`. Same is true for other classes.
- The function `justRMA` added for those who want to use `rma` and are having memory problems.

What's different?

- Some of the large example datasets have been moved to a a new package *affydata*.
- Autoload of cdfenvs on demand (uses reposTools). Can be configured through the options.
- default methods for normalization, bg correction, pm correction and summary now in the package options [options exist for all, but only used by normalize for the moment].
- The default background on the `rma` function has been changed. Now the results from `rma` and `expresso` should agree completely.
- The function `express` is deprecated. It still functions normally but gives warning mesage. It will be removed in a future release. The function `expresso` should be used as a replacement.
- bug in the parser fixed (infinite loop reported with apparently non-standard CEL files).
- bug in the parser fixed (the 'sd' data returned were not correct).
- missing slot in the dataset SpikeIn fixed.
- bug in normalize.AffyBatch.qspline fixed (thanks to people at Insightful). The expression data matrix sent to normalize.qspline was mistakingly transposed.
- barplot.ProbeSet scales plots to eachothers by default.

[5] A comparison between the implementations of algorithms in MAS5.0 and the ones in `affy` can be found at `http://stat-www.berkeley.edu/~bolstad/MAS5diff/Mas5difference.html`.

A.6 Changes in Version 1.1.x

What's new?

- Faster reading functions (type `?read.affybatch`)
- Widgets for reading phenotypic and MIAME information and choices of preprocessing when computing expression measures. (`?read.phenoData, ?read.MIAME, ?expresso`)
- No need to read in *CDF* files.
- More efficient expression measure functions. (`?expresso`, `?express`).
- Very fast RMA (`?rma`).
- Our version of MAS 5.0 available (`?expresso`).
- RNA degradation assessment. (`?AffyRNAdeg`)

What's different? The new version is not backwards compatible! Unfortunately the changes we had to make to gain efficiency has resulted in some lack of backwards compatibility. Here are some important ones:

- Unless you are using the HG-U95Av2 chip or the HGU133A chip you need to download and install a package for each chip type. They can be obtained from `http://www.bioconductor.org/data/metaData.html`
- You need the latest version of Biobase
- To get RMA you no longer use `express`, you use `rma`
- `ReadAffy` uses the argument `filenames` instead of `CELS` for denoting cel files.
- You can no longer subset probe level objects (now `AffyBatch`) by probe set name

The main difference between Version 1.0 and this version (1.1) is that the user no longer needs to provide the *CDF* files. We now provide a more efficient way of obtaining this information. Data packages containing the necessary CDF information can be obtained from `http://www.bioconductor.org/data/metaData.html`. Simply download as many of these *cdf environments* as you need and install them. The affy package will know where to look. If you are using the **HGU95Av2** or **HGU133A** chip the information is included in the affy package and you do not need to download further packages. You can also create your own cdf environments. See Section 7 for information on how the environments work. A cdf environment making package is available from the Bioconductor web site `www.bioconductor.org`.

Version 1.1 provides a unified approach to working with probe level data. *AffyBatch* is the main class the user will manipulate. We believe it combines the simplicity of the

former *Plob* with the flexibility of the former *Cel.container*. As before, it bundles the data from a *batch* of experiments. The classes *Cdf* contains the information of *CDF* file, the class *ProbeSet* contain PM and MM intensities for a particular probe set. Beginners need do not understand these classes. However, they are briefly described in Section 6.

There are some minor differences in what you can do but little functionality has disappeared.

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