

Assignment-5.R

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2020-10-13

```
#Loading Packages
library(cluster)

## Warning: package 'cluster' was built under R version 3.6.3

library(knitr)
library(pander)

## Warning: package 'pander' was built under R version 3.6.3

library(dplyr)

##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##   filter, lag

## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union

#Loading dataset
rawdata <-read.csv("C:/Users/wangk/Desktop/Rutgers/Rutgers
Courseware/Fall 2020/Multivariate
Analysis/heart_failure_clinical_records_dataset.csv")
View(rawdata)

#Identifying different columns names
names(rawdata)

## [1] "age" "anaemia"
## [3] "creatinine_phosphokinase" "diabetes"
## [5] "ejection_fraction" "high_blood_pressure"
## [7] "platelets" "serum_creatinine"
## [9] "serum_sodium" "sex"
## [11] "smoking" "time"
## [13] "DEATH_EVENT"

#Data Summary
str(rawdata)
```

```
## 'data.frame':    299 obs. of  13 variables:
## $ age                : num  75 55 65 50 65 90 75 60 65 80 ...
## $ anaemia            : int   0 0 0 1 1 1 1 1 0 1 ...
## $ creatinine_phosphokinase: int  582 7861 146 111 160 47 246 315
157 123 ...
## $ diabetes           : int   0 0 0 0 1 0 0 1 0 0 ...
## $ ejection_fraction  : int   20 38 20 20 20 40 15 60 65 35 ...
## $ high_blood_pressure : int   1 0 0 0 0 1 0 0 0 1 ...
## $ platelets           : num 265000 263358 162000 210000 327000
...
## $ serum_creatinine   : num  1.9 1.1 1.3 1.9 2.7 2.1 1.2 1.1
1.5 9.4 ...
## $ serum_sodium       : int  130 136 129 137 116 132 137 131
138 133 ...
## $ sex                : Factor w/ 2 levels "Female","male": 2 2
2 2 1 2 2 2 1 2 ...
## $ smoking            : int   0 0 1 0 0 1 0 1 0 1 ...
## $ time               : int   4 6 7 7 8 8 10 10 10 10 ...
## $ DEATH_EVENT        : Factor w/ 2 levels "Death","No Death":
2 2 2 2 2 2 2 2 2 ...
```

`summary(rawdata)`

```
##      age      anaemia  creatinine_phosphokinase
## Min.   :40.00  Min.   :0.0000  Min.    : 23.0
## 1st Qu.:51.00  1st Qu.:0.0000  1st Qu.: 116.5
## Median :60.00  Median :0.0000  Median : 250.0
## Mean   :60.83  Mean   :0.4314  Mean   : 581.8
## 3rd Qu.:70.00  3rd Qu.:1.0000  3rd Qu.: 582.0
## Max.   :95.00  Max.   :1.0000  Max.   :7861.0
##      diabetes  ejection_fraction high_blood_pressure  platelets
## Min.    :0.0000  Min.    :14.00    Min.    :0.0000    Min.    :
25100
## 1st Qu.:0.0000  1st Qu.:30.00    1st Qu.:0.0000    1st
Qu.:212500
## Median :0.0000  Median :38.00    Median :0.0000    Median
:262000
## Mean    :0.4181  Mean    :38.08    Mean    :0.3512    Mean
:263358
## 3rd Qu.:1.0000  3rd Qu.:45.00    3rd Qu.:1.0000    3rd
Qu.:303500
## Max.    :1.0000  Max.    :80.00    Max.    :1.0000    Max.
:850000
## serum_creatinine serum_sodium      sex      smoking
## Min.    :0.500  Min.    :113.0  Female:105  Min.    :0.0000
## 1st Qu.:0.900  1st Qu.:134.0  male  :194  1st Qu.:0.0000
## Median :1.100  Median :137.0                Median :0.0000
## Mean    :1.394  Mean    :136.6                Mean    :0.3211
## 3rd Qu.:1.400  3rd Qu.:140.0                3rd Qu.:1.0000
## Max.    :9.400  Max.    :148.0                Max.    :1.0000
```

```
##      time      DEATH_EVENT
## Min.   : 4.0    Death   :203
## 1st Qu.: 73.0    No Death: 96
## Median :115.0
## Mean   :130.3
## 3rd Qu.:203.0
## Max.   :285.0
```

```
head(rawdata)
```

```
##   age anaemia creatinine_phosphokinase diabetes ejection_fraction
## 1  75      0                582      0              20
## 2  55      0                7861     0              38
## 3  65      0                146      0              20
## 4  50      1                111      0              20
## 5  65      1                160      1              20
## 6  90      1                 47      0              40
##   high_blood_pressure platelets serum_creatinine serum_sodium sex
## 1      1      265000      1.9      130    male
## 2      0      263358      1.1      136    male
## 3      0      162000      1.3      129    male
## 4      0      210000      1.9      137    male
## 5      0      327000      2.7      116 Female
## 6      1      204000      2.1      132    male
##   smoking time DEATH_EVENT
## 1      0     4    No Death
## 2      0     6    No Death
## 3      1     7    No Death
## 4      0     7    No Death
## 5      0     8    No Death
## 6      1     8    No Death
```

```
dim(rawdata)
```

```
## [1] 299 13
```

```
#Data Cleaning
```

```
#Checking for missing values
```

```
is.null(rawdata)
```

```
## [1] FALSE
```

```
##The "FALSE" output shows there is no missing data in the dataset.
```

```
#Transforming data (Converting 0,1's to meaningful form)
```

```
dataset <- rawdata %>%
  mutate(DEATH_EVENT=ifelse(DEATH_EVENT=="Death",0,1),
         sex=ifelse(sex=="male",1,0)
  ) %>%
```

```
mutate_if(is.character, as.factor) %>%
  dplyr::select(age, anaemia, creatinine_phosphokinase, diabetes,
ejection_fraction, high_blood_pressure, platelets, serum_creatinine,
serum_sodium, sex, smoking, time, DEATH_EVENT)
```

```
View(dataset)
summary(dataset)
```

```
##      age      anaemia  creatinine_phosphokinase
##  Min.   :40.00   Min.   :0.0000   Min.    : 23.0
## 1st Qu.:51.00   1st Qu.:0.0000   1st Qu.: 116.5
## Median :60.00   Median :0.0000   Median : 250.0
## Mean   :60.83   Mean    :0.4314   Mean    : 581.8
## 3rd Qu.:70.00   3rd Qu.:1.0000   3rd Qu.: 582.0
## Max.   :95.00   Max.    :1.0000   Max.    :7861.0
##      diabetes  ejection_fraction high_blood_pressure  platelets
##  Min.   :0.0000   Min.   :14.00   Min.   :0.0000   Min.    :
25100
## 1st Qu.:0.0000   1st Qu.:30.00   1st Qu.:0.0000   1st
Qu.:212500
## Median :0.0000   Median :38.00   Median :0.0000   Median
:262000
## Mean    :0.4181   Mean    :38.08   Mean    :0.3512   Mean
:263358
## 3rd Qu.:1.0000   3rd Qu.:45.00   3rd Qu.:1.0000   3rd
Qu.:303500
## Max.    :1.0000   Max.    :80.00   Max.    :1.0000   Max.
:850000
## serum_creatinine serum_sodium      sex      smoking
##  Min.   :0.500   Min.   :113.0   Min.   :0.0000   Min.   :0.0000
## 1st Qu.:0.900   1st Qu.:134.0   1st Qu.:0.0000   1st Qu.:0.0000
## Median :1.100   Median :137.0   Median :1.0000   Median :0.0000
## Mean    :1.394   Mean    :136.6   Mean    :0.6488   Mean    :0.3211
## 3rd Qu.:1.400   3rd Qu.:140.0   3rd Qu.:1.0000   3rd Qu.:1.0000
## Max.    :9.400   Max.    :148.0   Max.    :1.0000   Max.    :1.0000
##      time      DEATH_EVENT
##  Min.    : 4.0   Min.    :0.0000
## 1st Qu.: 73.0   1st Qu.:0.0000
## Median :115.0   Median :0.0000
## Mean    :130.3   Mean    :0.3211
## 3rd Qu.:203.0   3rd Qu.:1.0000
## Max.    :285.0   Max.    :1.0000
```

```
Heart_disease<-dataset
attach(Heart_disease)
```

```
#Scaling our dataset
```

```
scaled_dataset <- scale(Heart_disease[,1:13])
View(scaled_dataset)
```

#Checking if our scaled dataset has null values

```
is.null(scaled_dataset)
```

```
## [1] FALSE
```

Creating a (Euclidean) distance matrix of the scaled/standardized data

```
Distance <- dist(scaled_dataset, method="euclidean")
```

Distance

```
##           1           2           3           4           5
6
## 2      8.2608089
## 3      3.3694703      8.6280212
## 4      3.9905691      8.4437794      3.7538093
## 5      5.3733855     10.0949282      5.5194141      5.8943317
## 6      3.7442979      9.4168182      4.1189413      4.9437192      6.3063761
## 7      3.7022967      8.6178981      3.5995938      2.4072306      6.1886110
4.2074082
## 8      5.8809015      9.0516902      5.3803295      5.4328265      6.0172293
5.0283391
## 9      5.2485810      8.5840284      5.3551194      4.9987427      7.0175374
5.3693951
## 10     8.0778464     12.1470302      8.8939799      8.5795795      8.8200517
7.3672703
## 11     4.0622779      9.5088529      4.7871352      4.9253253      5.8099557
2.8030265
## 12     3.4881948      8.5562370      3.4431604      3.9764720      7.4102787
4.0163255
## 13     4.5325263      7.5667451      4.0391397      1.6934449      6.4486769
5.2538103
## 14     3.7564860      8.4586292      4.6474842      2.7833278      6.4856997
4.3228017
## 15     5.0563804      9.2424999      6.0061200      4.4472051      6.6468312
5.8562408
## 16     4.7349725      8.6396740      4.5898050      4.1122556      6.8968135
3.7723290
## 17     4.2491647      8.6800705      4.6676525      3.6983867      6.8748928
3.7469774
## 18     3.6913827      8.1451542      2.8821980      3.3480796      5.3019610
5.9558510
## 19     3.8741764      8.9494371      4.9635309      3.6138794      6.4781684
4.2339154
## 20     6.1886261      9.3081221      5.6849538      5.6763937      4.3462055
6.2838264
## 21     4.1331122      9.1755812      5.1771338      3.9872491      6.1642582
4.6879527
## 22     4.0318929      9.0539435      5.1699681      4.0130169      5.1848154
4.4905162
## 23     4.1110001      8.7888473      4.2651416      3.8642552      7.2025925
```

3.0071509
24 5.6347846 8.8354569 5.6785251 5.3107837 6.8980664
6.2526576
25 3.1735391 8.5532965 4.6586260 4.8043688 5.2778913
4.5159139
26 5.2217225 9.0319439 4.4668732 4.9351517 7.8184261
4.5898788
27 4.3546413 9.4165885 5.5690937 5.1762160 6.8619153
3.4865909
28 3.9794443 8.8739901 4.1524689 5.0413925 6.6818397
3.6488202
29 5.4321349 9.5368838 5.6192978 4.2240170 6.3230071
5.4346584
30 3.9455070 8.9481519 2.7462369 4.7431279 5.7240963
3.8095960
31 3.1425812 8.7336143 4.9182362 5.4403000 6.2521528
3.7254934
32 3.5000418 8.7873127 4.3831349 4.6937826 5.7667989
4.0905379
33 4.4764032 9.0771659 5.2415255 4.5501661 4.2129287
5.2891065
34 5.5491804 9.0115366 5.5028605 3.9030461 5.8289035
6.1406968
35 4.2542435 8.7060778 5.0912978 4.6797562 7.3225091
4.7310892
36 3.7149485 8.2242646 4.1158114 3.9407083 5.3562896
4.7835997
37 4.7633022 9.1072414 5.0464687 4.8132375 5.9762891
3.9018093
38 5.6690537 8.9351712 6.8151026 5.7022706 7.7029061
5.1210145
39 4.7814037 6.3049869 5.2221185 4.7130804 6.5915202
6.2009226
40 5.0934699 8.7285657 5.4703842 4.4218834 6.4376973
5.9593680
41 2.3867338 8.3627399 2.7329290 4.1148738 6.3012318
3.2832497
42 4.7058985 9.1120229 4.2175817 4.8111252 6.4204743
5.1486666
43 4.3283548 8.5244497 4.3144663 5.0458882 7.3270777
3.8564203
44 4.1625877 8.9553721 5.1181699 5.3189058 6.6965576
4.6663683
45 6.2114675 8.6501300 6.1522575 4.7815998 7.1316089
5.7558341
46 4.6291298 8.1326722 3.5787488 4.0818720 6.0326301
5.0960948
47 2.4608964 7.2368176 3.7054001 3.7858775 5.7986400
5.0048738
48 4.6119794 8.5912683 4.9691938 5.3145767 7.1287804

5.0351333
 ## 49 3.5218649 9.1830054 4.9819037 4.2788572 5.9982956
 3.7429962
 ## 50 4.8921058 8.6764966 5.1335666 3.2303516 6.1825324
 5.4919789
 ## 51 3.1478449 8.2841416 4.2320115 2.8808074 6.6139373
 3.6375379
 ## 52 4.3826505 9.0858940 5.5331971 3.7402428 6.2699197
 5.4263716
 ## 53 8.6611064 8.0382057 9.2571851 8.2892403 9.7346412
 8.8810460
 ## 54 4.6939487 9.2344196 5.7808730 5.0620546 5.5319174
 4.5160591
 ## 55 5.1061568 8.9923651 4.1713988 4.2315597 4.6069470
 4.4487405
 ## 56 4.0752490 9.0222265 5.1319591 4.8254076 5.6008376
 4.1419146
 ## 57 4.9114336 9.0776333 4.1437903 3.8226893 6.7636297
 3.8114513
 ## 58 5.2498109 8.3881517 4.1452499 3.8690040 7.1748656
 4.4674563
 ## 59 3.5467074 8.0845113 3.4836850 3.9722250 6.8570902
 4.7843583
 ## 60 3.3886687 8.8097427 3.5662342 4.6512155 6.4139542
 3.9401952
 ## 61 8.4589583 3.6115583 9.3708493 8.8831942 10.3426311
 9.9300668
 ## 62 3.5628489 8.5285687 4.4394838 4.2639547 5.5180749
 4.9948490
 ## 63 4.8457361 8.6019904 3.6621615 4.0574104 7.3866218
 5.1001280
 ## 64 5.1671540 7.9541262 5.3031052 3.7163638 7.9918505
 6.4425145
 ## 65 6.9973851 8.8950856 6.8662435 6.3582170 8.1966712
 7.1372827
 ## 66 3.8781247 9.0273999 1.8743786 4.1011548 5.3466981
 4.5620697
 ## 67 5.2901982 8.9395100 4.9378015 3.1732152 5.3103493
 6.3383773
 ## 68 4.4729439 8.7817384 3.5718063 3.2213669 6.8328531
 3.7073047
 ## 69 4.2225452 8.5230813 4.3899798 3.7264002 6.8275922
 5.3338115
 ## 70 4.1429455 8.7548900 4.8259284 4.3985167 5.6094335
 5.7634484
 ## 71 5.7387728 8.7505121 4.8232282 4.6539658 7.8987941
 6.2028280
 ## 72 5.4075612 8.5403277 4.1178006 4.7146261 7.4143831
 5.4817850
 ## 73 6.5480307 4.0932833 6.4276527 7.5585128 8.5780634

6.8502769
74 5.4691011 8.8941141 4.3711624 5.1730242 7.2446815
5.0148617
75 3.3572081 8.0938153 1.8606980 3.6596908 6.1026226
4.0962784
76 4.6463693 8.8150835 3.2603905 2.7497505 6.8135037
4.3174687
77 5.7215752 9.4352133 5.8846212 6.3040871 8.1837589
5.0614920
78 5.5072444 8.6895746 5.2340227 4.2168221 7.2707606
6.5457254
79 4.7167302 9.4404674 4.8029702 5.3930643 6.1251190
3.7205854
80 4.8526105 8.7079412 5.7404701 5.0573409 7.4594550
5.7764960
81 4.4088255 8.7335193 4.6674549 4.5023003 6.1739823
5.2276042
82 4.9252821 8.2667639 4.0488146 4.8459853 7.3703020
4.5800698
83 4.5686870 9.0695247 4.4953780 3.4368174 4.0165760
5.1314737
84 4.2135151 9.2457715 5.2253127 4.8102234 6.6456793
3.4306637
85 4.7583906 9.0323292 5.6831412 4.1141966 6.3641420
5.3485994
86 5.4043171 8.6045370 5.5313406 4.6640562 7.7288398
6.2663899
87 3.7739929 8.6980126 4.4765815 4.0495056 7.2225595
5.0199190
88 5.7010632 9.3668950 6.5211050 5.4254710 7.6552088
5.2214089
89 5.0113745 8.9302727 5.5210608 4.7638142 7.4827610
6.1275038
90 4.8653357 9.1025539 5.5412351 3.6789057 7.9858974
5.2607034
91 5.1480196 8.9853228 4.2119763 5.1789105 6.9024678
4.8564545
92 4.6352866 7.8871549 4.7090048 4.6702896 6.0600066
5.6508225
93 6.0375559 8.4196795 5.8473061 5.1803966 7.3637490
6.6896976
94 3.6122190 8.3774596 3.4876291 1.4366025 5.5355144
4.2954028
95 5.2708632 9.1728978 6.1212934 5.4098382 7.4202889
6.1997600
96 5.5266711 9.0800568 6.1749479 4.8340993 8.1327677
5.0491192
97 4.0174389 8.7940894 5.0156194 4.0679586 5.7985927
4.7148719
98 5.7289412 9.1517640 5.8015369 5.0070700 6.6889771

5.1563645
99 4.8399227 9.3450995 5.7669860 4.5816754 5.9200424
5.4753005
100 5.7179391 9.1805111 5.6764374 4.3823366 6.4519264
5.6924183
101 4.6953461 8.5843147 4.8828319 3.1100882 6.9900308
5.1640461
102 3.6303415 8.3395590 4.9321819 4.8958221 7.2874498
4.3312065
103 5.2148657 8.4858611 4.4289159 4.9970838 8.4281021
5.0768535
104 7.2017532 4.5091347 6.6364398 6.6548923 9.3592425
7.9884327
105 5.2229042 9.1807425 6.1786096 5.3088878 7.9072164
5.7138044
106 5.6214148 9.7563974 6.4288765 6.0284558 7.0728303
5.3573648
107 4.5044203 7.7374273 4.4878682 3.9273796 6.9724166
5.4998527
108 5.6924360 7.2839110 5.5446917 3.9827759 6.8207565
6.3219248
109 4.4014967 7.8921071 3.4106924 4.5684373 6.5583856
4.7035504
110 8.3876090 10.6697792 8.5075138 8.0405985 9.3937426
9.0599969
111 4.8333490 8.9488865 4.2466189 5.7066542 6.9116344
3.7996829
112 4.6210606 8.6724261 3.2172229 4.1029202 6.8400686
4.9235778
113 4.5678836 8.4315367 4.4332469 3.8005879 6.1809247
6.0922597
114 5.4286456 8.8779281 5.7248973 4.7100038 6.4307978
4.9265132
115 4.4900306 8.8172059 5.4430656 5.1326657 5.0109912
5.0487401
116 5.4366503 8.6563540 5.2195922 3.8338051 6.7619338
5.4973291
117 5.9087601 9.5183012 6.5579466 5.7087588 6.8109045
5.5843338
118 6.4878045 9.9291907 7.2847035 6.4137556 7.2546654
5.8935177
119 6.1062916 9.5881396 6.7285424 5.7523084 7.4711930
5.5455825
120 3.7574078 8.3344530 4.2993498 4.7112579 5.7277511
4.4415725
121 5.4194951 8.7712232 5.3285274 5.2635891 7.5178100
4.0439596
122 5.0360650 9.4467356 5.6802645 4.8863403 6.2147480
5.0108373
123 5.4278147 8.9244606 5.3240935 4.8107833 6.8225810

6.2250462
124 5.5829894 9.0416778 6.1449005 4.6047914 8.1106771
5.7270725
125 3.7835723 8.0358550 4.0129668 3.5596365 5.9901112
4.8554190
126 5.8513292 8.7399531 5.5908302 4.2125735 6.4102580
6.0672208
127 4.2521987 9.4462522 4.9591583 5.2565185 4.0508509
6.3042158
128 6.3668335 9.2106301 6.3658825 5.3353950 6.6312225
6.1207793
129 4.0270369 8.8054934 3.9181616 4.7401544 7.2853191
4.4647593
130 6.1432593 9.2140723 6.2649498 4.1688949 7.6054783
6.2768353
131 6.0028807 7.8752107 5.9413310 5.5899243 8.2548139
5.0876513
132 6.4608667 9.4035471 6.8612677 5.9159392 6.2524334
6.4917151
133 4.7464347 8.3577648 5.4482403 4.8153054 7.0501602
5.9845367
134 5.9576884 9.2669566 6.0875326 6.0204091 9.1796163
5.3326209
135 6.0747250 5.2498990 5.8270093 6.6807352 8.5364385
6.2434568
136 4.0699725 8.0905524 4.3524061 4.3111593 6.9077714
4.8524231
137 6.3259208 9.4116569 6.1819638 5.3670178 6.7692456
5.7988177
138 3.9419086 8.4274057 4.2656166 3.5405631 5.0645593
4.6753308
139 4.9917937 8.7410922 4.8951609 4.7196544 6.0332637
5.9559024
140 4.1488242 7.3631063 4.9243050 4.3349930 7.5584018
5.7198043
141 3.1886039 7.6985025 3.6137828 4.0415186 6.1667762
4.1900540
142 5.8004135 8.8251656 5.7853012 3.9767897 6.8699274
6.3491309
143 5.0948347 8.6361303 5.0292780 4.8365353 5.3776613
6.5534833
144 5.1636913 9.2276438 5.8910621 4.5373314 7.3401176
5.1732176
145 3.9586607 8.3847753 4.4672230 4.1269858 6.9621416
3.3246933
146 5.3210741 8.6984011 4.1918105 4.2722860 7.8743780
5.7655055
147 4.8526412 8.6802447 3.3899686 4.1453329 7.1349131
5.3297355
148 5.2581907 7.2189981 5.3625379 5.1536104 7.6619753

5.6750199
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## 80	5.6505149	5.8719850	3.7615433	9.6899907	5.9033600
	4.2354803				
## 81	4.6420494	5.5078684	3.2024008	8.9638952	5.4477023
	4.7188666				
## 82	5.0192495	4.4994854	4.0268063	9.0740606	5.0895882
	3.8711730				
## 83	3.8615804	5.2287316	4.8754097	8.3724229	5.1191497
	5.3195831				
## 84	4.4700841	5.5404640	4.8367892	8.3891831	4.4494661
	4.9469309				
## 85	4.4942027	5.5139164	5.0840235	9.3626297	5.5560455
	4.2721722				
## 86	5.5772728	4.8980646	3.9579690	9.9598878	6.1609889
	4.7048606				
## 87	4.4446907	6.1063371	4.7234025	9.4045637	5.5292571
	3.4927882				
## 88	5.7374545	4.5985678	4.8263223	9.6150514	5.6877481
	5.2166484				
## 89	5.5531110	5.6164231	5.1503166	10.1219983	6.3424705
	4.2512619				
## 90	3.9483809	6.6127855	5.7235531	9.4579163	5.7988286
	3.9483841				
## 91	5.1488823	4.1939333	4.7068803	9.5359079	5.5478658
	4.2457376				
## 92	5.0883861	4.3334212	4.3711012	9.6677601	5.8549894
	4.9509819				
## 93	6.1715924	5.5280043	3.1127115	10.1631521	6.6827886
	5.5681198				
## 94	2.0815850	5.0680379	4.6578020	8.5009993	4.5808166
	3.9974758				
## 95	5.8219031	5.8656244	4.6175860	10.0658796	6.4168201
	4.5434297				
## 96	5.2998903	5.4297252	4.4379192	9.4929413	5.6032627
	4.8106987				
## 97	4.2300529	5.2854576	5.9008598	8.9598366	5.0181350
	4.5032585				
## 98	5.1308053	4.9748585	3.2088275	9.5226972	5.7390222
	5.7427181				
## 99	4.9474724	5.6027883	5.4852015	9.2872970	5.5486688
	4.8614998				
## 100	4.5731282	5.2250312	4.3282196	9.7455636	6.1864702
	5.3665402				
## 101	3.2967887	5.5523173	5.1163901	9.2383161	5.4750352
	4.3515037				
## 102	4.7416562	5.6204275	4.2668803	8.9937451	5.0231860
	3.8544031				
## 103	4.2556295	6.6374055	5.6093889	9.5865612	6.1349846
	3.8318337				
## 104	7.1541615	7.5813107	7.3947485	11.0925670	8.0471527
	6.2724082				

## 105	5.8622628	6.2861366	3.6960512	8.7367664	5.6554633
	4.6297306				
## 106	6.4656203	5.2026128	6.0457960	8.2715977	4.4856075
	5.0302268				
## 107	4.5944004	5.0986568	3.7388060	9.3754256	5.6616498
	4.3170275				
## 108	4.7830749	5.1752806	5.5668415	10.1037065	6.4866737
	5.3479533				
## 109	4.8604404	4.4975760	4.6917244	9.0518700	4.9300569
	3.8110194				
## 110	9.1363442	6.1922468	8.0457364	10.7043836	7.8677981
	7.3775048				
## 111	5.4323343	4.0033457	3.8908077	8.8159875	4.6306908
	4.6473031				
## 112	4.6109998	4.9671817	4.7329030	9.1762615	5.2115303
	3.5402761				
## 113	4.5580651	5.4322141	5.2340287	9.4405647	6.0436314
	4.5820594				
## 114	5.0335938	4.2236294	2.5243931	9.0456041	5.1681946
	5.4100191				
## 115	5.5585065	4.5410608	5.9585050	9.1367606	5.0206522
	5.5729039				
## 116	4.1172154	5.8038243	3.9890610	9.7820222	6.0998586
	5.0678817				
## 117	6.0920497	4.9040192	4.4097630	9.9344991	6.0229332
	5.7040465				
## 118	6.6474641	5.4939098	4.6606213	7.8984792	5.3255362
	6.8936569				
## 119	5.9094791	5.4834110	4.4023327	9.9218803	6.2398551
	5.6511276				
## 120	4.1431197	5.6012634	3.2613581	8.6224276	5.0706654
	4.7536064				
## 121	5.6596493	4.6504525	4.9626035	8.6772493	4.5327641
	4.5491222				
## 122	4.8183325	5.7509793	5.0038649	9.5916596	5.7893895
	5.0913883				
## 123	5.0412561	5.6481517	4.0143911	10.2591695	6.7023118
	4.9527019				
## 124	4.6051795	7.1395120	5.3028448	9.9987353	6.4922875
	4.6970422				
## 125	4.3141879	5.4352406	4.0002089	7.1367521	4.3649176
	4.6097484				
## 126	5.2611154	5.2356455	3.9413262	9.7151828	6.0764888
	5.6305701				
## 127	5.9863471	6.3474093	6.2630684	9.1826806	5.8672605
	5.5844402				
## 128	5.8558220	4.4090792	3.9210928	10.1036967	6.3929587
	6.0894816				
## 129	4.9369994	5.4863011	5.3881554	9.2501749	4.9497307
	2.6654202				

## 130	5.0298358	5.9874723	5.6647342	8.2481947	5.9260326
	5.6266380				
## 131	6.1122348	4.9342023	5.3100539	9.6312373	5.5062765
	4.7296561				
## 132	6.6973437	6.3755739	6.7019729	6.0055704	5.2685628
	7.5047089				
## 133	5.6154726	6.1386632	4.2431737	9.6670093	5.9977297
	4.3927042				
## 134	6.3928797	5.6119864	4.7245589	9.2904792	5.6673970
	4.0628383				
## 135	6.2125343	6.9200571	6.6315278	10.0913610	6.8739214
	5.8379652				
## 136	4.0894281	5.3890773	4.0020241	9.2360083	5.4647035
	4.3079995				
## 137	5.4865603	5.0523821	3.9677069	10.1398896	6.5237000
	6.1321652				
## 138	3.7393181	5.2399090	5.4908481	8.2529620	4.5655463
	5.1359020				
## 139	4.8748695	5.5350091	4.1707675	9.9635234	6.3953433
	5.0237816				
## 140	4.8338966	6.3869792	5.2962937	9.8572343	6.0517405
	3.7651545				
## 141	3.5200649	5.0158002	3.7700819	9.0133562	4.9834763
	4.0394865				
## 142	5.0027558	5.5192873	4.5331183	9.8951519	6.2254630
	5.2012781				
## 143	5.5181285	5.3002583	4.8352989	10.1134091	6.4741282
	5.3638056				
## 144	4.7801133	6.0856210	4.4913727	9.5577270	5.7208260
	4.5814341				
## 145	4.1263312	5.0375716	5.6722155	7.8156610	3.4751992
	2.8993704				
## 146	4.9027920	5.5308050	5.1617529	9.8411134	6.0017975
	3.4609730				
## 147	4.6307846	5.3505610	5.1191081	9.7295439	5.7224794
	3.5434906				
## 148	5.3949370	5.2455976	3.6698979	9.8460141	6.1688622
	5.1534496				
## 149	2.3075057	4.9963948	4.5738771	8.2256150	4.2931311
	4.3604368				
## 150	4.9799810	6.2172258	5.2084212	9.6627347	5.8354511
	4.1207982				
## 151	4.9127330	5.7973044	3.3005134	7.9471928	4.4778243
	4.2484233				
## 152	6.0356365	5.2470317	4.4725689	9.8738420	6.1425890
	4.8979885				
## 153	5.5915137	5.4330992	5.1081720	9.4635332	5.3217474
	3.5697394				
## 154	5.5868427	4.8908744	5.5480152	9.7043341	6.1068199
	4.4792987				

## 155	4.5078170	5.9177118	4.7143046	9.4436441	5.3914872
	4.6091419				
## 156	3.7612531	5.6098169	5.6094788	9.2211012	5.8917558
	4.9675917				
## 157	4.4752799	5.4084927	4.3021603	9.3273001	5.6719684
	5.1509648				
## 158	4.7266591	5.4170945	5.3841610	9.4954183	5.6160935
	3.5794843				
## 159	4.2696091	5.1290493	4.5862517	9.0448332	5.2107458
	5.5090873				
## 160	5.4590659	4.5727973	5.3226112	8.7600534	4.4641089
	3.8654610				
## 161	4.2312373	5.2918352	4.9859221	8.8240945	4.6085090
	4.3525560				
## 162	4.5833040	5.3263668	5.4976664	9.7669945	5.8488719
	4.3052540				
## 163	5.2649780	3.9590167	5.3230996	9.0674730	4.8863643
	4.6163613				
## 164	4.9253873	6.4766761	5.3207593	10.6356219	7.3275585
	5.8018064				
## 165	5.3192493	5.3478786	5.3538024	10.0264554	6.5925640
	4.8561259				
## 166	4.9200471	5.8581264	4.3698107	9.2488246	5.5729670
	4.5899902				
## 167	5.9666190	4.6609885	4.3985662	9.9426904	5.9264765
	4.8462918				
## 168	3.8630514	6.3389112	5.5922024	8.9908199	5.9967115
	4.8332332				
## 169	5.2370693	5.4369645	4.0455633	9.9760149	6.4645172
	5.1807955				
## 170	5.3003319	6.0946231	4.5809961	9.5749776	5.6249709
	4.5723528				
## 171	5.0390883	4.2356855	5.7368808	9.0905527	5.3608788
	4.7959159				
## 172	6.6198564	6.2614983	6.2125110	10.3888429	7.0151274
	5.4488104				
## 173	5.8971806	5.9150892	5.3707969	9.4487566	5.7499793
	4.7800622				
## 174	3.6074164	6.2607166	5.7634054	9.9826431	6.2869410
	4.7277209				
## 175	5.5567070	5.0742898	5.6486654	9.3234734	5.3110825
	3.6141573				
## 176	5.7433335	3.9683372	4.6702996	9.3163194	5.2999517
	5.0819412				
## 177	4.7743736	5.8424943	5.1204159	9.6670434	5.8967726
	4.3700248				
## 178	5.1109139	6.1133512	4.1734603	10.2327336	6.7235981
	5.6829492				
## 179	5.7107313	5.1083270	4.7991616	9.9494229	6.6079371
	5.9116998				

## 180	5.2050043	5.1651333	4.8083824	9.7848105	5.8947859
	3.8092427				
## 181	5.4395351	5.4180001	5.4939348	10.2561183	6.6953098
	5.0521018				
## 182	3.9323588	4.3584482	5.7152854	9.2123311	5.1674594
	4.0978661				
## 183	4.4340293	4.6327599	5.3158820	9.1231282	5.2643093
	3.5952996				
## 184	4.3700522	5.8189849	4.5185124	7.7499491	4.1476800
	3.8930747				
## 185	3.5318644	4.9782464	5.4194151	8.9104128	4.8345609
	3.6708344				
## 186	4.3348550	4.1504742	5.2511187	8.8850704	5.1405761
	4.9708038				
## 187	5.1909953	5.7555518	3.2552965	10.3978612	6.5991258
	5.1250849				
## 188	5.5929956	6.2617463	5.1508154	9.4223548	6.6473175
	5.3127476				
## 189	5.3252953	5.7551470	5.1868234	9.7386645	6.0055449
	5.3641686				
## 190	6.3062104	6.5194520	4.6096014	10.2686884	6.7176202
	4.9305935				
## 191	5.1736746	5.2502011	5.2591353	8.7385915	5.5244743
	5.4215217				
## 192	5.7019644	5.0428434	3.7383381	9.3705144	5.8046793
	6.0969990				
## 193	5.1656554	4.6261971	5.6183308	10.0783679	6.1667244
	5.8320864				
## 194	4.5903829	5.6792617	6.1411795	9.5450484	6.0429965
	4.9112177				
## 195	4.4999102	6.8771455	5.7850289	9.3888796	5.8906497
	3.8922511				
## 196	3.9836920	5.7645129	4.4667368	8.8784360	5.5704400
	4.9421730				
## 197	6.2262334	6.1494330	5.1475856	10.0642718	6.6192170
	5.1600150				
## 198	4.7427497	6.3262808	4.3497421	10.0498832	6.4495208
	4.8476573				
## 199	5.4945422	6.2380944	6.2903830	9.9082187	6.2812693
	5.4841951				
## 200	7.7295227	6.3238144	7.9198755	10.1228370	6.8968934
	7.6261280				
## 201	4.4892574	6.2822134	5.3128519	10.3056846	6.6460337
	5.6550221				
## 202	7.0493604	5.1212423	5.2324220	10.0999302	6.4822434
	5.6228583				
## 203	5.8179987	5.9879727	4.3993806	9.7603192	5.9806417
	4.8808974				
## 204	5.5563655	6.6265238	6.2387846	7.3217568	4.5491744
	4.1408443				

## 205	4.6359291	4.9351709	5.3960131	9.3376496	5.2086268 4.7133120
## 206	5.9123053	4.8201520	4.8821099	10.0364790	6.4546456 6.0995223
## 207	5.4116173	6.2611587	4.8769738	10.4747039	6.9708472 5.6866948
## 208	4.3382167	6.2624944	4.8321423	9.7606123	6.1019336 4.9956093
## 209	5.6655276	5.8209000	5.3009035	10.2719410	6.9462778 6.1242416
## 210	6.2943629	6.0567726	5.5616063	10.2719106	6.5748899 5.5205500
## 211	5.8659262	5.8243685	6.7799600	9.3495013	5.5744643 4.1955706
## 212	6.6364513	6.1247811	5.2265109	10.1793833	6.4625543 4.7093078
## 213	6.3800873	4.8908329	5.1753300	9.0632807	5.4579823 5.1565669
## 214	5.4105867	5.5905617	5.6761009	9.2464514	5.5906334 5.4627947
## 215	4.6402102	5.5916701	5.5483103	9.3015135	5.1190945 4.6493392
## 216	4.7718208	6.3385990	5.2260728	9.1866106	5.4192278 4.3342420
## 217	6.2852479	6.3394596	4.4008451	9.8876505	6.3237839 5.1362948
## 218	9.8055743	9.6904230	8.3199896	5.9291352	7.4415061 9.8264356
## 219	4.5774733	4.9352320	5.5830582	9.5471097	5.8372386 5.5708774
## 220	6.3251726	6.1241544	5.3091424	10.2662338	6.7065538 5.1092309
## 221	3.6102376	6.0043539	5.1251218	8.7334973	5.2432460 4.3181583
## 222	5.6952616	6.0654885	4.9283192	9.8944303	6.4674986 4.6004133
## 223	5.6494727	5.0643742	5.9235324	9.5647511	5.8232082 4.9019215
## 224	4.6560586	6.7005033	5.6609490	10.4110479	6.8267040 4.9734806
## 225	6.0718654	5.5818476	6.1322279	10.0484144	6.6607852 5.5652759
## 226	6.8917159	5.5936647	4.9840771	10.0993666	6.7431102 7.0891741
## 227	4.4661293	5.5907230	6.1756385	9.2138459	5.3592072 4.8302890
## 228	5.3312865	7.0406089	6.3469278	10.1164352	6.6473754 5.3798635
## 229	6.1794150	7.5033840	6.1036788	7.1862966	5.7525577 6.7306230

## 230	4.7908160	6.4617772	4.8687893	9.6856248	6.1966029
	5.1982199				
## 231	4.8882003	6.8716765	5.0848729	9.7566886	6.4369487
	5.7503028				
## 232	4.8575710	5.6998347	5.3147287	9.4315925	5.6196019
	4.3601186				
## 233	4.9468579	5.7591032	5.5517721	10.0787878	6.4016071
	5.3631989				
## 234	5.2428052	4.7695211	5.5878658	9.0594663	5.2605864
	4.7873454				
## 235	5.3857409	4.6304499	5.3481785	9.3553648	5.4479071
	4.8912943				
## 236	5.6974871	5.3926360	5.3769861	9.0892555	5.1607785
	5.3662247				
## 237	6.0084145	7.0623461	5.2458956	9.9769780	6.7095372
	4.9714541				
## 238	4.3085805	6.2768772	5.2251126	9.6349365	6.0192738
	4.9829428				
## 239	5.1909802	5.3587192	4.9612665	9.9480625	6.3859312
	5.9539287				
## 240	5.2012081	4.7783273	5.2913549	9.2935083	5.4096962
	4.8443485				
## 241	6.9829842	6.1590108	5.8407715	9.7217813	6.4527257
	5.8288738				
## 242	5.3035239	5.2727198	5.7957735	9.4688896	5.9064450
	4.6002714				
## 243	5.7701118	5.6808909	5.6126771	9.8881019	6.2435998
	4.5536150				
## 244	5.2343551	6.6769847	5.1848285	9.7892705	6.1738367
	5.2930018				
## 245	5.4172952	5.3411527	5.2001514	9.4453319	6.1658677
	5.3725476				
## 246	4.8218270	4.9530057	5.4192280	9.4271599	5.8974525
	5.5263575				
## 247	4.6433140	6.0171065	5.2445297	9.7512237	6.2138901
	4.4967780				
## 248	4.4894744	6.3266622	5.3419107	8.6667413	5.5969271
	4.8841495				
## 249	6.0222821	5.9751367	5.7188350	10.1180681	6.6367765
	4.5397376				
## 250	5.9480448	5.7743873	4.9599763	10.2194047	6.7824733
	6.0325384				
## 251	6.6710270	7.0108298	5.9317477	10.6316363	7.1107064
	5.4573509				
## 252	5.7452035	6.4765507	4.9811453	10.6995764	7.4230994
	5.5381932				
## 253	5.8263933	5.8800288	5.1264611	9.7243995	5.8752130
	4.7504275				
## 254	5.8345182	6.2597633	5.3514507	9.7292297	6.1720315
	5.4019315				

## 255	6.0025215	5.6614385	5.0921266	9.7596176	5.9983237
	5.4427166				
## 256	5.9840628	5.5330476	6.6794933	9.5830007	5.8878765
	4.6437042				
## 257	5.3080237	6.2394735	4.1611201	9.4418072	6.2329364
	5.2266919				
## 258	5.7337884	6.0543774	5.5946106	9.9251634	6.3610622
	4.7609147				
## 259	5.0341175	5.7959259	6.3573836	10.3368306	6.7463170
	5.7549470				
## 260	6.1142614	5.0170506	5.0527094	9.9739468	6.0778618
	4.8743238				
## 261	4.9906638	6.1457098	4.7951859	10.0612552	6.5165157
	4.9225462				
## 262	5.1609496	5.6823441	4.8581924	10.0396142	6.2335494
	5.8869679				
## 263	4.2157981	5.3891530	6.0817896	9.3897529	5.7390533
	5.6867251				
## 264	6.1314725	5.7486783	4.7209448	10.3855322	7.0425405
	6.6206982				
## 265	5.2375062	6.3480691	5.3915150	10.2595962	7.0321884
	5.3687722				
## 266	5.6144087	5.2632876	5.9965946	9.7066416	5.9500529
	4.9768942				
## 267	4.9234612	5.8487235	5.9199468	8.9313920	5.4562130
	4.1738204				
## 268	4.9799121	6.0914417	5.8303320	9.7752243	6.6434813
	5.8602091				
## 269	6.3404564	6.1972314	5.1652858	10.7185839	7.4407538
	5.8915231				
## 270	5.9766397	5.9455539	5.9522246	10.5433917	7.1025395
	5.8623696				
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## 272	6.0265236	6.0291189	5.0143418	10.5813632	7.1560490
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## 273	5.2951478	6.3910001	4.5374746	9.9170590	6.4476629
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## 279	5.5170955	6.0875066	5.8368681	10.6028299	7.1064710
	6.1736353				

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	6.0785362				
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	4.7209350				
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	5.9401125				
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	7.2276232				
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## 33	3.9725381	4.0378811	3.9339273	2.3385935	4.7795291
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## 45	4.3143026	5.0690491	4.9338799	3.7975013	4.8672320
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## 46	5.3291753	5.5165981	5.4653578	4.4542252	4.1628282
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## 49	4.4573725	6.5169948	4.7770631	4.6265358	4.8653120
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## 63	4.9686250	6.7534192	4.4070984	5.3002564	3.8339661
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## 66	5.6727108	5.5171944	5.7270051	5.6345075	5.1264721
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## 67	4.0154258	5.0756533	4.2897905	3.3004796	5.1925964
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## 68	3.7292275	6.8662405	4.3803977	4.4149659	2.3628585
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## 70	5.1505741	6.7255184	5.2430595	4.1999068	4.9877301
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## 71	5.6544210	7.2512170	5.0219036	5.7671348	4.4150762
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## 73	7.6630219	8.3384268	7.9750673	7.8463312	6.9640515
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## 75	4.5081757	6.4818856	4.8545860	4.8422990	3.5559212
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## 77	4.8206637	7.1632768	4.3577075	5.0846201	4.2535457
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## 78	5.4077298	6.0863937	4.8420035	4.8650559	5.2440534
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## 79	4.9105697	6.0473252	4.2250419	4.1726664	3.7164309
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## 80	3.8088097	6.6450078	3.0203263	4.1147137	4.4851237
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## 81	4.1017281	5.8877938	3.3210764	4.3027340	4.9102214
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## 82	5.2807415	6.4738006	4.7749553	5.4781801	3.9858311
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## 83	3.9221816	4.0182870	4.1396368	2.8136521	5.0722931
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## 84	4.2663273	5.7881199	3.6119175	4.4700421	4.1107033
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## 85	2.4757385	6.2084221	3.2547058	1.6244796	3.8691156
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## 86	5.3056045	6.9873396	4.6780212	5.3965270	4.8268220
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## 87	4.1109329	6.3392403	3.4151546	4.5242084	4.1131187
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## 88	4.8120432	6.4106849	4.3190053	4.1687625	4.2897641
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## 89	4.9302996	6.3500240	4.3167900	4.3636098	4.7481143
	3.3200412				
## 90	3.4611854	7.3497414	2.9978582	4.3794119	3.6580795
	5.4621615				
## 91	5.5215425	6.1750221	5.0551001	5.0179028	4.4124156
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## 92	5.4101984	5.3208024	4.7255596	4.6033694	5.1440850
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## 93	5.3692387	5.5492541	4.6876163	5.3349860	5.7076551
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## 94	3.4668882	5.3422628	3.8783614	3.8328831	3.6455249
	5.0790931				
## 95	4.1061506	6.8387276	3.5155488	3.5773613	4.8485000
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## 96	4.4230110	6.5120660	3.9324575	4.7676285	3.9437546
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## 97	4.0349638	5.8344567	3.1597227	3.2331179	4.1241778
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## 98	4.4017496	5.3363741	3.7712257	4.5573845	4.9083689
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## 99	3.3727626	6.0481923	2.2954137	2.4241488	4.4856882
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## 100	3.9840918	5.4690487	3.4256200	3.4750024	4.8595488
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## 101	3.8525155	6.9462237	3.2500648	4.4600266	3.8918008
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## 102	4.2058815	6.7150141	3.6283853	4.5516823	3.9694110
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## 103	5.0792107	8.0298067	4.9810673	5.9166366	4.3454203
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## 104	7.4835021	8.4447534	7.1549811	7.7229141	6.7507748
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## 105	4.1185749	6.9719634	3.5117879	4.4161883	4.7654658
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## 106	4.6675196	8.1988150	4.8222798	4.5841287	4.2156939
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## 107	4.8727343	5.9835832	4.2150649	5.0225063	4.6082595
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## 108	5.1881801	5.6856466	4.6089823	4.6399899	5.0650582
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## 109	5.2997324	6.2662761	4.6097846	5.3571962	4.1400514
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## 110	8.4658456	10.2626423	7.8530643	7.7239875	7.4076995
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## 111	5.6987552	6.3086035	5.9859521	5.7031673	4.3778642
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## 112	5.1505358	6.2214563	4.4909930	5.3342755	4.0989674
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## 113	5.1464533	5.9103056	4.4395632	4.4987859	5.1905506
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## 114	3.9949071	5.4410782	4.4016960	4.0406843	4.4321958
	4.5157767				
## 115	5.2635646	4.9748009	4.2682402	4.0590806	5.0320348
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## 116	3.6356741	5.4766515	2.9983690	4.2031550	4.6198821
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## 117	4.4928001	5.2792624	3.7975985	3.5933486	4.9343806
	3.8812038				
## 118	5.7156041	7.3937359	5.0953778	5.5148200	5.9529753
	5.3383193				
## 119	4.3310387	5.7723098	3.8762673	3.7563857	4.8821478
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## 120	3.9118727	5.7816444	4.4055272	4.1992351	4.8514544
	5.2491438				
## 121	5.1015080	6.0059454	4.4834903	5.1378162	3.6023991
	4.6783619				
## 122	3.5304625	5.2482246	2.8001202	2.8662481	4.6025223
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## 123	4.4888248	5.9063595	3.9926160	4.0709249	5.2847923
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## 124	3.0495887	7.0902131	2.7289383	4.1997047	4.3874658
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## 125	5.0137924	5.4517323	5.1706569	4.8960833	4.9451796
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## 126	4.5938025	4.7904924	3.7162241	4.5685737	5.1611163
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## 127	5.3187338	4.9188882	5.1192291	4.0725295	6.1994519
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## 128	5.0042189	5.0940467	4.3778753	4.1887288	5.3678979
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## 129	4.5457034	7.0307433	3.8760117	4.8814734	3.3528921
	4.7117568				
## 130	5.3119928	6.8674828	4.8580778	4.8412288	5.2851923
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## 131	5.3846999	6.6519296	4.8779077	5.5215369	3.8653676
	4.8439314				
## 132	7.1999423	6.0617685	6.4673969	6.1451821	7.1001727
	6.0698122				
## 133	4.0813754	6.0868673	3.1777831	4.2378342	4.8276300
	4.3804938				
## 134	5.4592687	7.9893749	5.1482326	5.7998106	3.9960826
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## 135	6.7919410	8.1287378	6.5499072	7.1164855	6.0141770
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## 136	4.6215447	6.4926251	4.1021672	4.9709987	4.4839961
	3.6529281				
## 137	4.9283526	4.8298024	4.4577796	4.3331493	5.4490813
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## 138	4.6715084	5.7359990	3.7140848	4.6172589	4.7137179
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## 139	4.5367880	5.3477623	3.9017766	3.9372642	5.3768723
	3.6103918				
## 140	4.4626289	6.7807862	3.8359904	4.8682850	4.4368194
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## 141	4.3143583	5.9903046	4.7680961	4.6167429	4.2100950
	4.5164425				
## 142	4.0650722	6.3013374	3.2077641	4.3206038	4.7955860
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## 143	5.0887204	5.2796344	4.2026109	4.1754409	5.7760697
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## 144	2.8841669	6.4181209	2.0951390	3.6149415	3.9793552
	5.0378945				
## 145	3.5764297	7.2695761	4.1186193	4.0367453	1.9124152
	6.0651335				
## 146	5.1720799	7.2895536	4.6764905	5.5850182	4.1265240
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## 147	5.1893857	6.5365371	4.5861288	5.4828041	4.2186038
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## 148	5.5484692	6.1828426	5.0901524	5.6908286	5.1329689
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## 149	3.6643467	5.5095651	4.1307023	4.0004113	3.7591827
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286 5.5346884 5.8720998 6.3052868 5.2939084 6.3582489
5.4598133
287 5.4539195 5.2272287 6.0086170 5.3251648 6.0259875
5.4201818
288 6.1112846 7.5746475 7.7156978 6.2846405 8.1619326
6.9714329
289 4.7676931 5.1907346 5.8764065 5.4886781 7.2273451
5.5501319
290 5.9874891 6.2001001 4.8921533 6.5323200 7.6478584
6.5344274
291 5.7050226 5.9758851 6.7994957 5.8360738 7.4781942
6.4179857
292 5.6266896 5.1841762 5.9976259 5.5558709 6.0950973

5.3726130
 ## 293 5.9483979 5.1513857 7.2157842 4.7366559 7.4411694
 5.2084240
 ## 294 5.9397718 5.0187133 6.3004909 5.0254617 6.7880767
 4.7118427
 ## 295 5.6099515 4.6931000 6.3969746 4.4221267 7.5150431
 5.3431643
 ## 296 5.4611688 6.2035686 6.1833633 6.1195041 6.9867317
 6.2825736
 ## 297 7.7852962 8.9471090 9.1419090 7.7984364 9.8486346
 8.7793481
 ## 298 6.8516603 5.8995178 7.5392033 6.0904852 7.1378642
 6.2484633
 ## 299 6.4523658 6.0394411 7.2418259 5.3276390 6.9264215
 5.7975540
 ## 31 32 33 34 35
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 ## 32 3.4908660
 ## 33 5.0118916 5.5739927
 ## 34 5.7500611 5.7112522 3.7864616

## 35	3.2112502	4.6475134	4.5661345	4.8410272	
## 36	3.4049877	3.0353087	4.9026498	4.7187635	3.7686911
## 37	3.2647990	3.7864391	4.9452048	4.9582488	3.8543394
	3.8621437				
## 38	4.2153859	5.5193004	4.9069737	4.7059675	3.7720471
	5.3525934				
## 39	4.7952093	4.9107174	5.4939274	4.1170106	4.7353419
	3.5099401				
## 40	4.6973182	4.3038391	4.7983261	3.7054842	3.9994793
	3.1186465				
## 41	3.8801732	4.2181944	4.9472389	5.5796827	4.3140627
	4.1705212				
## 42	5.0162733	6.0019829	3.8779014	4.4844882	3.7923737
	4.6915222				
## 43	3.3609405	4.8684747	4.9793494	5.2966574	2.2937619
	4.0111410				
## 44	3.1789510	4.5257638	4.5795152	4.5484701	2.6201854
	4.0851151				
## 45	5.3601593	5.5037139	4.6237454	3.7353998	3.7659594
	4.7184283				
## 46	4.7878596	4.4576865	4.5668065	4.3773568	3.9268928
	3.2153347				
## 47	4.5501820	4.7462790	3.8840471	5.1705307	4.1928413
	4.4151292				
## 48	4.3228277	5.1247271	4.5857612	5.0977263	3.6926816
	4.8454527				
## 49	4.4390745	4.5105558	5.6568282	6.1868191	5.4756216
	4.0785074				
## 50	5.6214289	4.7730500	4.1283536	3.1923527	4.9724259
	4.9574663				
## 51	4.0795837	4.8187202	4.3828857	4.6983711	3.6361945
	4.5107154				
## 52	5.5662766	5.4601982	3.6358416	3.9183445	5.0735459
	5.4577050				
## 53	7.9811797	7.4847840	8.8001850	8.0504406	7.7310804
	6.3270001				
## 54	3.9128715	4.7616178	2.5429321	3.9730856	3.6439602
	4.7072805				
## 55	5.1047523	4.8714906	3.5158174	3.6572764	4.8746298
	3.9565588				
## 56	4.1771995	2.9301891	5.5942913	5.7066751	5.8239368
	4.6057485				
## 57	5.2826883	4.4183529	5.8104011	4.3490985	5.1574498
	4.3705927				
## 58	5.6981270	5.2608496	5.4330110	3.9862529	4.8362159
	5.1813432				
## 59	5.1475289	5.2615026	4.7377925	5.2490133	4.4893464
	4.9070393				
## 60	3.3171891	4.8661618	4.6928724	5.1710872	3.5961393
	3.9503195				

## 61	8.7067921	9.5805653	8.6741431	8.9011978	8.5584339
	8.5453393				
## 62	4.8312104	4.5303761	3.4152081	4.7356974	4.0999037
	4.1977657				
## 63	5.5352559	4.8437189	5.7520035	4.2337837	4.5391809
	4.6636990				
## 64	5.8396975	5.0018108	5.7168205	4.5929804	4.3206995
	4.7915264				
## 65	6.9320581	5.9069130	6.0477884	5.1744759	5.3104591
	6.1134911				
## 66	5.4588930	4.5863140	5.6257842	5.9772143	5.6921278
	3.9262385				
## 67	6.0654275	6.1717967	3.5292287	2.8102834	5.1486392
	4.6386799				
## 68	4.9713477	4.5517745	5.4228605	4.6644291	4.7857254
	4.6754201				
## 69	4.7181099	4.3186198	5.1976024	4.1398239	4.2762886
	4.2251725				
## 70	4.2168860	3.7073141	4.6755103	4.4528995	4.5810372
	3.3926239				
## 71	6.4881686	5.5783825	5.9016403	4.4206276	5.1293066
	5.5035897				
## 72	5.2196861	5.6837630	5.7544673	4.2006701	4.0660885
	4.3650555				
## 73	6.6891728	6.8730323	8.0987023	8.2377950	7.5479061
	6.8320274				
## 74	4.8015390	5.0248910	5.7218843	4.5027516	3.8142779
	4.1145981				
## 75	4.5272998	3.9583386	5.3171453	5.1392877	4.7621897
	3.9592995				
## 76	5.5758763	5.2778146	5.2717348	4.5452759	4.9187691
	4.9184940				
## 77	5.3762996	5.4266496	5.6925034	5.2036685	4.5408115
	6.0434961				
## 78	5.5668816	5.4926960	5.1502315	3.2542642	3.7448315
	4.1556712				
## 79	4.2654774	5.4012714	4.3704532	4.6285910	4.5325725
	5.1972005				
## 80	5.2550488	5.2611920	4.6249041	3.8764059	4.0335504
	5.3880442				
## 81	4.7425584	3.7355337	4.9323786	3.5366832	4.5925943
	4.1855449				
## 82	5.0051237	4.2050724	5.8920092	4.7716900	4.3987764
	4.5660839				
## 83	4.8963796	4.8222350	3.2758277	3.2326392	4.8196830
	3.4072275				
## 84	4.1233087	4.3531761	5.0189100	5.0440151	4.2022332
	4.8141724				
## 85	4.7060617	5.7685686	3.2268773	3.2574623	3.8728791
	4.8621597				

## 86	5.7469413	4.6698278	5.6416182	4.1699506	4.4604731
	5.0715367				
## 87	4.6957221	4.9766032	4.9148535	4.4149633	3.4488343
	4.6142669				
## 88	4.6666101	5.4873382	4.7877267	4.1884894	3.3479737
	5.2467570				
## 89	5.0540840	5.8848342	4.5759595	3.8671700	3.0305967
	4.7769245				
## 90	5.5351518	5.9971562	5.4500255	4.1443699	4.3471986
	5.4970086				
## 91	4.4617021	4.6812742	5.4605806	4.3049330	3.9439087
	4.1983845				
## 92	4.3418475	4.3070042	4.5862599	3.6172777	3.7652270
	3.5732414				
## 93	6.4298742	5.4582596	5.2092832	3.9877131	4.8657405
	5.3599231				
## 94	4.7929481	4.0289062	4.3561443	3.9969052	4.4085607
	3.6334884				
## 95	4.8717796	5.7991421	4.4523266	3.3093040	3.6217182
	5.1524185				
## 96	5.4266100	5.5008557	5.3103174	4.6289944	3.7986315
	5.6097265				
## 97	4.1750515	5.3123774	3.7156805	3.4367453	4.0231346
	4.3637260				
## 98	5.5286944	4.7004514	4.9633361	3.7850173	4.9186498
	5.2945054				
## 99	4.9277552	5.8144140	3.2770656	2.4203657	4.5209881
	5.0613117				
## 100	5.2540399	5.4722371	4.3959772	1.8326616	4.3346794
	4.6354529				
## 101	5.2986621	4.7870391	5.3886958	3.3606420	4.8476408
	4.7529743				
## 102	3.6089830	3.9897832	5.2390043	4.8875497	3.3840278
	4.4914309				
## 103	5.2831709	5.3843620	7.0944756	5.3934739	5.0894806
	5.1600570				
## 104	7.9473279	7.8654768	7.8544605	6.7861401	7.2601189
	7.0385356				
## 105	5.2494360	5.0734812	5.3770724	4.3712985	4.1018619
	5.1273873				
## 106	5.9899155	5.6062781	5.2915811	5.7022696	6.4193204
	6.5072750				
## 107	5.0512036	4.1300308	5.2730551	3.9348460	4.0118322
	4.0581443				
## 108	5.8494025	6.0700755	4.7912604	3.0210180	4.6647047
	4.7097691				
## 109	5.0872457	4.2603214	5.4522338	4.6119739	4.8923551
	4.5042739				
## 110	8.4134808	7.6729768	7.8967828	6.7960456	8.0420960
	7.8814823				

## 111	4.3259995	3.1876158	6.0108846	6.2634810	4.6886213
	4.6411653				
## 112	5.4708984	4.7085098	5.5067995	4.3730993	4.6942421
	4.5285297				
## 113	4.9811269	4.9820219	4.7795059	3.1458747	4.1573107
	3.4816977				
## 114	5.1793762	4.0348707	4.5564968	4.3418030	4.6629184
	4.9367809				
## 115	4.6519135	5.2831629	3.3185292	4.3185571	4.7728178
	4.8667156				
## 116	5.8603331	5.4240586	4.8044953	2.8359060	4.8362798
	5.1327150				
## 117	5.1996215	5.9013159	3.7551619	3.5709531	4.0283278
	5.5743617				
## 118	5.9396438	4.4148492	6.3453005	5.2930224	6.4100507
	5.7745737				
## 119	5.1406022	6.0522754	4.4921574	3.7957673	3.8023571
	5.5770342				
## 120	3.7503253	2.8756045	5.0435429	4.9609009	4.5882948
	3.7437510				
## 121	5.4930680	5.4597414	5.2701656	5.2018010	4.5743972
	5.5912956				
## 122	4.6391675	5.8126237	3.6179673	3.1087290	3.9573722
	4.9994170				
## 123	5.0575641	5.3291696	4.7823160	2.6308149	3.9337112
	4.4102934				
## 124	5.9554641	6.5544293	5.3966235	3.9866172	4.7746166
	6.0440173				
## 125	4.5773645	2.9148642	5.3317030	5.1844990	4.3713022
	2.3708151				
## 126	6.4919048	5.5954668	4.3706284	3.0036240	5.2308454
	5.3731770				
## 127	5.4848901	5.9116446	3.0903286	5.1078420	5.5265367
	4.7913219				
## 128	5.7211998	5.5713373	4.3655110	2.8310488	4.6043994
	5.2160114				
## 129	4.8884978	5.1843473	5.2272896	4.8830994	4.3274870
	5.1926470				
## 130	5.8927110	5.6930669	5.9564373	3.6353010	4.8425627
	4.2078314				
## 131	6.1081547	6.2369590	5.6093698	5.3203561	4.8804639
	6.2208257				
## 132	6.3541469	5.4472265	6.4635823	5.8169103	6.6541013
	4.2427303				
## 133	5.5942077	5.5816840	4.3368468	3.8615785	4.3381430
	5.2878082				
## 134	5.5940753	5.6066531	6.5849761	5.7133740	4.1914863
	5.8892481				
## 135	6.1272043	6.2288159	7.6444890	6.7861593	6.6123167
	6.1135345				

## 136	4.1883724	3.4901079	5.6341851	4.3672693	4.1003443
	3.9633562				
## 137	5.5026379	5.6281902	4.7436099	3.3073700	4.4279913
	5.0956908				
## 138	5.0254453	4.0356955	4.7966097	4.0338747	5.5397953
	4.2119081				
## 139	4.7795711	5.0207685	4.4024700	2.6906920	4.1230235
	4.0557841				
## 140	5.1950944	5.6067681	5.1509302	4.5835073	4.0859054
	5.0435918				
## 141	3.3945665	2.6115553	5.1896841	5.1397340	3.8910895
	3.4084845				
## 142	6.5146707	5.7499340	4.6626548	2.4453830	5.4246923
	5.6250984				
## 143	5.4819347	5.3704312	3.8956675	2.6917590	4.9359667
	4.5068081				
## 144	5.4485486	5.7295891	4.5148394	3.4983648	4.3884767
	5.6806828				
## 145	4.5333468	4.8216911	5.0540312	5.2704966	4.7205510
	4.9686561				
## 146	6.0689933	5.5348806	6.0385648	4.3682534	4.8974583
	5.2199462				
## 147	5.7937718	5.2444430	5.6464648	4.4108177	4.8796022
	4.9330399				
## 148	5.1345379	4.4325222	5.9392486	4.9211292	4.2595277
	4.6793755				
## 149	4.1138587	3.3611444	4.7089766	4.5424871	4.4896065
	3.5132703				
## 150	4.7252093	5.2362407	5.2470252	4.9574393	4.2030867
	4.9326592				
## 151	3.7697840	3.6844856	4.3483243	5.0869896	3.7230725
	3.9927686				
## 152	4.3663265	5.2675707	5.1640408	4.6952249	2.6510651
	4.7919042				
## 153	5.5088033	5.5762475	5.2458932	5.1734947	4.2643978
	5.3774196				
## 154	5.5879464	5.7335085	5.5275250	4.2146452	4.7335333
	4.5088765				
## 155	5.0887774	5.4231685	3.9666218	3.5314839	4.6085632
	5.4795063				
## 156	5.1303653	5.4039811	5.0629986	2.8806312	4.4163934
	4.0490003				
## 157	6.0114165	5.1730571	4.2586468	2.4488926	5.2398893
	5.0360692				
## 158	5.9082301	5.2613085	5.6389802	4.3678410	5.1441622
	4.9126724				
## 159	4.5424892	3.9527718	5.6791040	4.8258960	4.9203105
	4.7078794				
## 160	5.5493981	5.4495242	5.1739708	4.6302392	4.7295896
	5.7649629				

## 161	4.5236229	4.6761242	4.3595941	4.2402288	4.1291193
	4.8951483				
## 162	6.5959151	6.1101191	5.6627589	4.0887355	5.2561709
	5.6006527				
## 163	5.9045087	4.9850770	5.5576496	4.3556970	5.6283800
	5.5687679				
## 164	6.2650243	6.8498973	5.1851788	4.1988203	4.9446177
	5.2753913				
## 165	5.4319806	5.5570601	5.1201394	4.5332124	4.4567024
	4.1703763				
## 166	2.8994357	4.6705576	4.0984552	4.8643200	3.2480437
	4.0096319				
## 167	6.0375111	5.1892640	5.9024666	5.2580851	4.8883460
	5.3712220				
## 168	4.6665448	4.9571133	5.2046578	4.8953344	4.2492784
	2.8577204				
## 169	4.7836061	4.9896098	4.7292014	2.9575411	4.1522431
	4.2535517				
## 170	4.5586893	4.8463964	4.4201812	4.4376870	4.6506103
	5.2125352				
## 171	5.7734537	5.7177957	4.9126673	3.4642926	4.9708087
	4.6654477				
## 172	6.9050696	6.5864201	7.1172201	5.9883177	6.3001636
	6.2456731				
## 173	5.9051868	6.2213659	6.6492763	5.7557132	4.6670936
	6.3592556				
## 174	6.2079210	5.8456791	5.4196754	3.6048586	5.2424839
	5.2545100				
## 175	4.3546446	5.4366640	5.0800100	4.6484264	3.7961015
	4.8056573				
## 176	6.1594819	5.2143970	5.8876950	4.7557986	5.2314018
	5.7208538				
## 177	5.3396907	5.1527174	6.3159573	5.3782825	4.9621163
	4.8896735				
## 178	6.6171840	6.0958900	5.3003142	3.5417001	5.0920980
	5.7222287				
## 179	5.6973019	5.7211786	6.0422323	4.1172741	4.2470798
	5.2120736				
## 180	5.8240852	5.2584116	6.0638597	4.6138721	4.7833370
	5.1567143				
## 181	5.7993825	5.6991219	4.9028735	3.4485487	4.5760933
	4.4863780				
## 182	5.1572552	5.4258961	4.6232606	4.1986821	4.5933944
	4.3211091				
## 183	4.4031983	4.6826193	5.0965859	4.7277654	4.1925654
	3.6442173				
## 184	3.2407907	3.2848625	4.9914937	5.6860950	3.5853690
	3.5868969				
## 185	5.6664566	5.1377423	5.2139496	4.7241944	5.0811164
	4.8136431				

## 186	4.7317555	4.5127105	4.1449921	3.7658800	4.4779532
	3.8636925				
## 187	5.8080505	5.2011459	4.7517907	4.7593472	4.4954850
	4.9418941				
## 188	5.4528691	5.5738728	5.5391121	4.3749984	5.0456505
	4.4465202				
## 189	5.0827223	6.0419677	3.7081044	3.2551904	4.2536464
	5.2648861				
## 190	6.3547150	6.2758536	5.0297969	4.3255851	4.6854646
	6.0029311				
## 191	3.8517438	3.7950825	5.5209559	4.5250967	4.6485866
	3.5009997				
## 192	5.9617157	4.9101285	5.0226437	3.9949071	5.3610367
	5.4725901				
## 193	5.7095669	5.5999593	4.2139072	3.5118842	4.9613529
	4.8306919				
## 194	5.4745652	6.0184938	6.1956162	4.4052083	5.0012341
	5.1151374				
## 195	5.4165357	5.6859552	5.0017189	5.4950821	4.4056434
	4.7323931				
## 196	5.0226132	4.5281479	6.2435504	5.2118746	4.4313375
	4.6911974				
## 197	5.5603319	6.2333552	4.1952254	3.6754022	4.2638673
	5.2025273				
## 198	5.4783983	4.9983894	5.3456367	3.7662461	5.0140091
	5.0290481				
## 199	5.8199559	6.6110090	3.5294090	3.2069416	5.2995036
	5.6296678				
## 200	7.0015158	6.6991635	6.3456673	7.1941074	7.7040679
	6.2974815				
## 201	5.9480926	5.8539425	6.0405314	4.8864234	5.1289802
	5.4342537				
## 202	5.6101036	5.8972744	5.0433029	4.9355845	4.0999722
	5.4740821				
## 203	4.7400930	4.9306802	5.8935638	5.5716904	3.7380635
	5.3802412				
## 204	5.4995705	5.3230678	6.1366057	5.7022229	5.3616486
	4.8493441				
## 205	5.4521179	4.9877659	6.0308209	4.8787390	5.3950012
	5.5200255				
## 206	6.1413051	5.8772951	4.1646822	2.5238390	5.2238771
	5.3359242				
## 207	7.0899790	6.5010163	5.2697088	3.2985837	5.5673485
	6.0741201				
## 208	4.4328058	4.1550208	6.2885897	5.2432988	4.6785301
	4.6353002				
## 209	6.0082438	6.3112484	5.2182020	3.2992581	5.3379316
	5.4397745				
## 210	5.4359437	6.1690421	3.7294684	4.1263066	4.8132719
	5.3105360				

## 211	4.8282228	5.8084205	5.5472844	5.1624656	5.1335060
	5.3743383				
## 212	6.3096585	6.4489631	6.4800963	6.0214845	4.5536701
	6.2509689				
## 213	5.5726645	4.4663728	6.7597760	5.7710482	5.7068138
	5.6166336				
## 214	5.4360328	6.0137894	2.4229873	4.1507295	4.8582167
	4.9955056				
## 215	4.9646256	5.1359825	4.6038813	4.4855483	4.6726305
	5.3953436				
## 216	4.1447028	4.5959008	5.3788581	5.2388507	4.1846760
	4.7184014				
## 217	5.2490859	5.4343693	5.6270515	4.9876013	4.7154286
	5.8833044				
## 218	9.2594973	8.2712239	9.1971082	9.4111105	9.0221398
	7.8225156				
## 219	4.8329799	5.0689459	4.8045764	3.6398846	4.7807891
	4.3648625				
## 220	5.3676485	6.1488207	4.6296499	3.8215814	4.4477873
	5.5360526				
## 221	4.3307131	3.6152948	5.4758526	5.2762531	4.8403902
	3.6384144				
## 222	6.0827457	5.6572495	7.1178954	5.4912105	4.8751385
	5.6306566				
## 223	7.0002130	6.1526154	5.8209476	4.3664787	5.9388884
	6.0166505				
## 224	6.1431893	5.7612726	5.7414732	4.6841281	5.2150991
	5.0471213				
## 225	5.6649571	5.4739427	5.7080953	4.3247263	5.4584278
	5.0843291				
## 226	5.3786348	5.1827268	5.3102798	5.4029189	5.7067955
	5.2134567				
## 227	6.2163471	5.6722855	5.5738755	4.6925688	5.9162165
	5.3978395				
## 228	6.1741527	6.7482189	6.0056117	5.3598968	5.3122469
	6.1082601				
## 229	6.3658637	5.0471770	6.3739620	5.6939269	6.8904313
	4.7219973				
## 230	5.2869633	4.7285477	5.3534381	4.2338214	5.4917657
	4.9327098				
## 231	5.8142713	5.2806621	5.1146224	5.5828431	5.6515738
	4.7990838				
## 232	5.3462774	4.8592592	6.1659776	5.2628252	5.1552338
	4.9332611				
## 233	6.6913654	5.9723613	5.3080566	3.8861231	5.4268297
	5.5738409				
## 234	6.3382749	5.5226945	5.6657586	4.4081408	5.6763867
	5.4939662				
## 235	6.3678208	5.5846701	5.7020333	4.5103450	5.5143911
	5.6223116				

## 236	4.9624696	4.8953935	5.4974493	5.2369716	4.9566227
	5.8204753				
## 237	5.3445457	5.7543736	7.0474809	5.9170743	4.2927332
	5.9950954				
## 238	4.9689246	4.4718048	5.7508549	4.9390011	4.9882059
	4.4528208				
## 239	5.4579308	5.6386837	4.4875808	2.9208681	5.0270933
	4.9832717				
## 240	6.2790941	5.5235238	5.7409488	4.5313448	5.3996443
	5.5349382				
## 241	5.3082041	5.8043993	5.3102566	4.7589559	5.3728299
	5.8842388				
## 242	5.1078743	5.3326196	5.7745891	4.5669896	4.8457649
	4.4394361				
## 243	6.7036103	5.9281589	6.0108920	4.8991152	5.5225565
	5.5321387				
## 244	5.4682826	6.0021152	5.3770054	4.5728858	5.0323510
	6.0462512				
## 245	5.0988989	4.9334171	5.1111027	4.0157949	4.4445076
	3.8238518				
## 246	5.2333811	5.2105414	4.9401063	3.3828567	4.6158893
	4.4571857				
## 247	5.4779226	4.9625185	5.6577385	5.1801418	5.0123533
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## 248	5.1967995	4.2965683	5.8514633	4.6813445	5.1636655
	4.0743369				
## 249	6.9408151	6.2876787	6.5385156	4.9761091	5.5820316
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## 250	5.7050256	5.6065076	4.4947352	3.8031652	5.1038047
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## 254	4.4567516	5.4923301	4.3444376	4.4153832	4.4763698
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## 255	5.9902414	5.9227432	5.4729707	5.0407993	4.5807462
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## 256	6.0561193	6.7692670	5.4485183	4.4856489	5.0503887
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## 258	4.7672757	5.7256126	5.1946293	4.5571784	3.6259986
	4.8898221				
## 259	6.2807977	6.3515818	4.9343285	3.5432660	5.3422258
	5.2162113				
## 260	6.2593395	5.3935242	6.1005072	5.2449918	5.3180386
	5.6305757				

## 261	5.7441576	5.1238011	5.9489528	4.6264531	4.6477863
	4.9074753				
## 262	6.0894315	5.4718737	4.7847906	3.8148995	5.7484525
	5.6719095				
## 263	4.9784203	5.1587060	4.4606269	4.8060748	5.1329541
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## 265	5.3166612	5.7099390	6.1222638	4.4827681	4.2174539
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	6.1077419				
## 267	5.8406345	5.1823492	5.8795986	5.7032670	5.6585865
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	5.0337582				
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## 112	4.1447517	4.1635665	5.4588871	3.2957723	4.2669144
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## 113	4.5678407	3.6771578	5.0484379	3.3746662	4.1145089
4.6016081					
## 114	5.1880639	5.0157332	3.0743022	4.9812764	5.4330785
5.2741688					
## 115	5.0501863	3.3704879	5.6390596	4.8498270	4.1278071
4.7971926					
## 116	5.2840837	4.6080083	3.5657495	5.1499348	5.1175352
5.9487699					
## 117	4.7139232	3.3720674	3.5269628	5.3387886	5.5301586
5.0372530					
## 118	6.6879327	5.7888154	5.3980504	6.3806628	7.1139254
6.4263843					
## 119	4.5138050	3.4637057	3.1986970	5.5882295	5.9230502
5.3526319					
## 120	4.7446140	4.6419113	4.6172706	4.8045636	4.6330133
5.3491489					
## 121	4.0845569	3.9734799	5.0342781	4.8048294	5.0511139
4.8995913					
## 122	4.4165829	3.3007336	3.9429774	5.2670050	5.0369593
5.2635533					
## 123	4.5012128	3.6539323	3.6642507	4.2774346	5.1804624
4.9062060					
## 124	5.1879041	4.9351005	4.5908270	6.1143367	5.3572468
6.0176632					
## 125	4.6710048	4.7397581	5.0702588	3.7422991	4.0299131
5.3960774					
## 126	5.7641287	4.8746153	3.8611993	4.9636131	5.0536914
5.9517475					
## 127	5.7112918	5.3671762	6.4924145	4.8863754	3.8075435
5.4604166					
## 128	5.2249754	4.1177262	2.8530492	4.8766038	5.9488299
5.3616070					
## 129	3.6323709	3.7111672	6.0000211	4.1053783	3.7419024
3.6993716					
## 130	5.2773793	5.0082594	4.4991033	4.7128210	6.1237857
5.8210491					
## 131	4.4276326	4.5705245	5.1077116	5.0254664	5.1301934
4.8091970					

## 132	6.7556119	6.0319268	6.4516204	5.7507302	6.8397738
	7.3449138				
## 133	4.8625778	3.9939353	4.9058431	4.8916966	3.8183671
	4.8826841				
## 134	3.8478071	4.2175263	5.3625301	4.9203984	5.7411675
	4.3142262				
## 135	5.7167039	6.1095527	6.9418254	5.8624174	5.8947052
	6.2477724				
## 136	4.4415269	3.3294038	4.9248424	4.4118819	4.3228005
	4.9015951				
## 137	5.0232924	3.9342609	2.7068659	5.1874015	6.1479009
	5.9073398				
## 138	5.6501768	4.5905047	5.7268785	4.7972416	4.2313111
	5.6326647				
## 139	4.5516110	3.4966982	4.0117498	4.1494154	4.8168800
	4.9733444				
## 140	4.4602315	3.7836704	5.6090435	4.7502985	3.0453091
	4.7140584				
## 141	4.1293873	4.0242936	4.8595687	4.1071253	3.6848436
	4.6313558				
## 142	5.8985117	5.2824957	4.2767955	5.0223340	5.1114191
	5.4571751				
## 143	5.2973565	4.1976846	4.8802790	4.0409714	4.4556924
	4.8318124				
## 144	4.9149975	4.1985591	4.1685405	5.6216154	4.9362204
	5.3375205				
## 145	3.8576579	5.1701753	5.5938502	4.3817386	4.2505411
	3.7250677				
## 146	4.4492394	4.8167307	5.5463423	3.6978769	4.7312346
	4.3913724				
## 147	4.3577267	4.4778943	5.6455069	3.5545810	4.2950496
	4.5736296				
## 148	4.7188467	3.6821267	4.5744029	4.6540271	4.7424404
	5.2875520				
## 149	4.6662410	4.6857864	4.6297644	4.4076455	4.0184654
	5.2547836				
## 150	4.4216770	3.5915739	5.6602857	4.9123922	3.1160166
	4.7667110				
## 151	4.1195939	4.0661486	4.5751431	4.8274247	4.0669581
	4.9179853				
## 152	3.6239828	1.9915075	4.4356304	4.6522280	5.0476086
	4.3070804				
## 153	3.7794692	3.6875228	5.7565155	4.1729486	4.0475189
	4.3960770				
## 154	4.0360351	4.3643591	5.2394822	2.9020732	4.7172040
	4.0616433				
## 155	4.9756946	4.0077482	4.5951309	5.5444589	4.4021092
	5.3072191				
## 156	4.7766952	4.1895425	4.4301290	4.3793870	5.1527598
	5.3124600				

## 157	5.6547960	4.8292804	4.2179995	4.8642052	4.8128455
	5.6472566				
## 158	4.6055748	4.7546229	5.9034331	3.4987031	4.2266845
	4.4972310				
## 159	5.1389888	3.9723233	4.8031449	5.4136820	5.3034894
	5.8723182				
## 160	4.2853883	4.3418225	5.3408699	4.6017956	4.9380914
	3.9381294				
## 161	4.5573271	3.2425919	5.0629143	5.1002646	3.9732202
	4.9675925				
## 162	4.8879025	5.1647047	5.0758387	4.2782602	5.1484340
	5.3081716				
## 163	5.1474325	5.0949738	5.4722192	4.2861486	5.2795166
	4.2986221				
## 164	5.2414788	5.8697920	3.3705580	5.1897004	5.5940439
	6.1909682				
## 165	4.7485341	5.1843070	4.9137869	3.4390866	4.0111043
	4.2070384				
## 166	3.5278547	3.5555894	4.3444056	4.7970509	4.4158775
	4.5924767				
## 167	4.5547137	4.2594302	5.3161553	4.0461082	5.1071744
	5.0340537				
## 168	4.5026531	4.7348461	5.3252085	3.9632335	4.4322960
	5.6632191				
## 169	4.5817662	3.6102037	3.8734057	4.2841398	5.1096888
	4.8303514				
## 170	4.8978920	3.6878577	5.4730776	5.3193970	3.8756007
	4.8820204				
## 171	4.4210278	4.5485197	4.8100953	3.3381766	5.2115797
	4.4854663				
## 172	5.6620061	6.1166442	6.4236512	5.0176113	5.4417284
	5.4315592				
## 173	4.3005450	4.6908694	5.0494156	5.7640875	6.3663794
	5.4401271				
## 174	5.6088559	5.0901373	5.2990041	5.0375737	4.6586938
	5.8360805				
## 175	2.9972105	3.0881151	5.5667367	3.7457380	4.6138497
	3.1609521				
## 176	4.9278382	4.8229326	4.7918524	4.5262275	5.8602068
	4.9180086				
## 177	4.2045146	4.3746113	5.5992381	4.3846877	4.8541585
	5.4236200				
## 178	5.6705517	5.0428198	3.6466552	5.5161890	5.7303777
	6.4116166				
## 179	4.9454707	4.2876732	3.5251480	5.0942835	6.4934646
	5.4422803				
## 180	4.2722137	4.5619555	5.2955752	3.7086932	4.7650750
	4.3039868				
## 181	5.0687741	4.2147147	5.2534562	3.6647071	4.3480519
	4.6184070				

## 182	3.9014756	5.0714469	4.6996497	3.1382922	4.8270208
	4.2094811				
## 183	3.3168347	4.6160110	5.1756578	2.4301613	4.4305103
	3.4800153				
## 184	3.9008453	3.8249128	5.4938989	4.6418255	3.6080309
	4.7496795				
## 185	4.4768549	5.5804557	5.1478307	3.8178340	4.5553979
	4.7740491				
## 186	4.8498790	4.8405379	4.4929762	3.7500277	4.6561452
	4.2337999				
## 187	5.0356437	4.9856202	4.0600797	4.6253761	4.3859258
	5.6700860				
## 188	5.2329039	5.8187274	4.6936519	4.5081314	5.3867529
	4.8967415				
## 189	4.7219419	3.6745817	4.1326730	5.3058211	5.1311416
	5.2527786				
## 190	5.3265634	4.6259712	5.0886393	5.3592076	4.7155396
	5.2365999				
## 191	4.8090193	3.5923920	5.5104171	4.3626758	5.1251840
	4.8354111				
## 192	5.8311205	4.7465551	4.0527550	5.4921016	5.8318890
	6.0179742				
## 193	5.3973503	4.1242695	4.9080336	4.4278875	4.8547771
	5.3552016				
## 194	4.3494012	4.8104038	4.9987965	4.6696159	6.2277080
	5.2947122				
## 195	4.7403508	5.0325471	6.0615651	4.7588388	2.8976677
	5.3164551				
## 196	4.8374258	5.2871184	4.0921542	5.2620918	5.7406586
	5.6636849				
## 197	4.7925846	3.9137662	4.8665665	4.7667270	4.6220817
	4.7587254				
## 198	5.3483712	4.5792724	4.9755364	5.0492643	4.8368174
	5.4986861				
## 199	5.5679540	4.7726878	5.3864907	5.3816947	4.7372886
	5.3107486				
## 200	7.0983474	6.3378212	8.3962790	5.8859204	6.1785434
	7.0778843				
## 201	5.4018698	4.7719971	4.7999540	5.6167392	5.2278736
	6.4899564				
## 202	4.8457145	3.5546460	5.3199941	4.7215506	5.0555926
	4.3284891				
## 203	4.3858291	3.0914968	5.2209980	5.4932815	4.9812928
	5.1821002				
## 204	4.6827575	4.9132321	6.8042282	4.7465409	4.8770076
	5.2714574				
## 205	4.8239679	4.7880894	5.3984478	4.9078211	5.6941347
	5.1499973				
## 206	5.7155819	4.7668149	3.9773666	4.8000534	5.6846667
	5.2882332				

## 207	6.1068889	5.5998075	4.3339507	5.4965287	5.6306207
	6.2074878				
## 208	4.9168590	3.8677954	5.5640924	5.3360041	5.1051073
	5.7789256				
## 209	5.5794834	5.1348462	3.9112894	5.2820777	5.8690629
	5.6744866				
## 210	5.1465542	3.9414893	5.5202309	4.9557982	4.2021123
	5.0012111				
## 211	4.3754916	4.4309921	6.7701929	4.5181935	4.9746817
	3.6008136				
## 212	4.2553441	4.4662871	5.6129224	5.1419255	5.5037918
	5.2179861				
## 213	5.2198268	5.0701466	6.2077623	4.8185824	6.0514870
	4.5852618				
## 214	5.2120606	5.0413086	4.9173255	4.9043241	4.3537623
	5.2236998				
## 215	5.0284791	3.8723070	5.5598301	5.3819527	4.1580708
	5.0262345				
## 216	4.4387478	3.2240100	5.9013969	5.2203990	3.8639142
	5.1183185				
## 217	5.1034703	4.3257557	5.1223215	5.7948309	5.2099719
	5.0248070				
## 218	9.2187352	9.3536503	8.5831365	9.1205215	9.6641131
	10.2042986				
## 219	5.0070155	3.9715817	4.7362269	4.5750655	5.0055304
	5.1804542				
## 220	4.9182616	4.1337887	5.0737827	5.0506192	4.9962039
	4.3284056				
## 221	4.9381359	5.0073769	5.8274464	4.4062247	3.8125616
	5.1585876				
## 222	4.4847088	4.9298392	5.2816051	4.8141577	6.1341475
	5.3274045				
## 223	5.6296278	5.7717324	5.7305698	4.4519818	5.4934873
	5.0082582				
## 224	5.5357944	4.8065153	5.9608067	4.8636027	4.1298734
	5.9958541				
## 225	5.7471862	4.9724699	6.1296172	4.5556923	5.2599646
	4.4402640				
## 226	5.9473966	4.3927947	5.5316346	5.6373340	6.0756267
	6.3530981				
## 227	5.3571439	5.3148148	6.0643281	4.6701418	5.0472303
	5.7127929				
## 228	5.4878629	5.1769683	5.7185583	6.0825212	4.8149162
	6.1414812				
## 229	6.9473073	6.2044101	6.9844502	6.0363535	6.0940161
	7.3797481				
## 230	5.6700169	4.7650705	5.6247686	5.2862541	4.8514934
	5.7812490				
## 231	5.8430895	5.6424242	5.7891767	5.3903344	4.6295470
	6.7714157				

## 232	4.5140731	4.4593645	5.9570869	4.3663834	4.9973113
	5.2158920				
## 233	5.9080078	5.2090823	5.2353287	4.9774455	4.8619336
	5.8034645				
## 234	5.2058607	5.3017100	5.4658843	4.2800469	5.2216630
	4.9386321				
## 235	5.1000994	5.1440107	5.2232262	4.3562894	5.3545351
	5.0056694				
## 236	5.3402496	4.2006314	5.6162301	5.9067033	5.3762997
	5.0843076				
## 237	4.8517812	4.4127851	5.5958908	6.1639383	6.0317726
	5.5232198				
## 238	5.2034677	4.1257598	5.8962137	4.9619756	4.3909848
	5.8284774				
## 239	5.3457204	4.4508822	3.8855107	5.0404634	5.6324457
	5.5917877				
## 240	4.9965975	5.0296440	5.1601942	4.4146786	5.4446623
	5.1676688				
## 241	5.6987722	4.8032480	6.0236094	5.7103611	5.8832390
	4.5474514				
## 242	4.1168286	4.2517431	5.6307564	3.5491980	5.1894439
	4.4068102				
## 243	5.1639592	5.2502480	6.0653003	3.9828734	4.8779383
	5.0554514				
## 244	5.3025270	4.7274533	4.7968502	6.2526632	5.4449466
	5.8634825				
## 245	4.8300277	3.7563134	5.1337252	3.8469404	4.6537295
	4.9562305				
## 246	5.0363534	4.0916161	4.4988092	4.4845127	5.3536210
	5.1439003				
## 247	5.1912249	5.5294721	5.6027847	4.3151142	3.6848579
	4.8821282				
## 248	5.3772416	4.5594820	5.9993661	4.6923606	4.5122042
	5.6611335				
## 249	5.2407742	5.6209369	5.9677108	4.2476640	5.3231836
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## 250	5.4776025	4.2802814	4.9923183	4.6488796	5.0970975
	5.7009436				
## 251	6.0829196	5.6047255	6.2496943	5.9447196	4.6710006
	5.3003792				
## 252	5.1853702	4.7245856	4.3648222	4.9201848	5.7441300
	5.4404719				
## 253	4.9390378	3.6862785	5.8528359	4.9559958	3.8048199
	4.9204405				
## 254	4.7715344	3.4330562	5.4104075	5.2834011	4.8682443
	5.1623978				
## 255	5.2103284	4.3047652	4.9252493	5.6922358	5.2642669
	5.4855307				
## 256	4.5896358	4.9573781	5.7057595	4.7359429	5.6631332
	4.1534677				

## 257	5.4644499	4.7341504	4.9077502	5.0835396	5.2349459
	5.6011530				
## 258	4.2047367	3.2043641	5.3259900	4.7346047	4.7115910
	4.4361761				
## 259	5.7253980	4.9609012	5.3641663	4.7891693	5.1728400
	5.6676006				
## 260	4.9689789	4.8052101	5.7941227	4.2163407	5.2458531
	4.8349352				
## 261	5.1397956	4.3262893	5.2827733	4.7595172	4.7530964
	5.5557010				
## 262	6.0346823	5.0835190	4.8306985	5.5556554	5.2182773
	6.0450141				
## 263	5.3019545	5.1073592	5.3807063	4.6451723	4.7477137
	5.6803370				
## 264	5.5520134	4.7336287	3.5164590	5.7810929	6.7817275
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## 265	4.6589422	4.0579374	4.8653949	4.6752010	5.4875195
	5.5161421				
## 266	5.5901640	5.7709159	5.7602040	4.7285454	5.6851976
	5.0715330				
## 267	4.9417606	5.9451473	6.3696579	3.7840232	4.2130255
	4.8977620				
## 268	5.2418340	4.6612808	4.5885101	5.0519052	5.9080637
	6.0599368				
## 269	5.6229139	5.0135243	4.7469850	4.8136770	5.6423130
	5.3853280				
## 270	5.5390821	4.5864687	5.7373198	4.3812336	4.7748149
	5.5496824				
## 271	4.8268846	4.6853968	6.7612039	4.3016806	4.6851511
	4.6528680				
## 272	5.4329555	4.4944469	4.7806792	4.7559566	5.2751893
	5.6425327				
## 273	5.6517992	4.6484621	5.3253776	5.3600258	5.0764462
	6.0744914				
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	5.8809714				
## 275	4.8227601	5.0306481	5.3867555	4.5684108	5.9108691
	5.4979191				
## 276	6.0058488	5.2136659	6.0345079	5.6687006	4.8069245
	5.1340365				
## 277	5.7224136	5.1706024	5.2165020	5.5653891	5.6636568
	5.6921702				
## 278	4.9125816	4.3508864	5.2811790	5.4524723	6.0128323
	6.3774223				
## 279	5.9238612	5.2760172	4.6489963	5.2626634	5.5684881
	5.9687695				
## 280	5.9568907	5.0316380	5.3721357	4.8800976	5.7522590
	5.1029989				
## 281	5.1635089	4.4989947	5.5148961	5.0658920	5.3767041
	5.5606112				

## 282	5.0478016	5.2577011	6.2798527	5.1826680	5.9791169
	6.4924324				
## 283	6.3957663	6.2655095	7.4449307	4.9365914	5.6534426
	6.6274020				
## 284	4.8388329	5.0861361	5.9780653	4.5298513	5.1964011
	5.0748538				
## 285	5.8363748	5.2377760	5.0612441	5.3274980	5.4938182
	5.7985089				
## 286	5.5266075	4.5339854	4.9613908	4.6685014	5.4453009
	5.2410861				
## 287	5.3074377	4.6502323	5.5499126	4.8189556	4.9783105
	5.4354294				
## 288	6.8405755	5.7761286	6.0082859	5.5069543	6.3390558
	5.6347452				
## 289	5.3161471	4.8051471	4.7042934	5.1696209	5.9243564
	5.5422865				
## 290	6.5805831	6.0635237	5.5737205	6.8499551	7.0662649
	6.5225960				
## 291	5.6438916	5.0216907	4.3533323	5.2659452	6.2574444
	5.9452666				
## 292	5.2751079	4.6612592	5.5663107	5.1643595	5.0838515
	6.0714389				
## 293	4.9284996	5.0862981	5.8284872	3.9498935	5.8992386
	4.2782829				
## 294	4.9169745	4.9886786	5.4339998	4.6994592	6.0671908
	5.4942129				
## 295	3.9874890	4.4967142	5.9387826	5.0810111	6.0174557
	4.9343064				
## 296	5.9786964	5.4742462	5.3343055	5.4874759	5.3011742
	6.0385966				
## 297	8.2988105	7.6230849	7.4021024	7.0976087	7.9346341
	6.5993850				
## 298	5.6428967	6.1267037	6.4018585	5.1874590	5.7444342
	6.2185838				
## 299	5.6376721	5.5683218	6.4033261	4.5213804	5.6491061
	5.0685203				

##	49	50	51	52	53
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## 56 5.1622543
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4.6574063
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## 66	4.3152782	5.6925935	4.2834336	4.8946375	4.1429835 4.2477475
## 67	3.5310811	6.1394558	5.3020805	5.0186701	4.8520261 4.9110647
## 68	3.9313950	4.0591140	2.9177945	2.8610145	3.7287648 3.7060120
## 69	4.5620136	4.8763972	4.6149196	4.6227694	4.4160253 4.4209291
## 70	4.6052593	3.9297076	5.2194042	5.4318370	4.4047335 4.0044384
## 71	5.1367397	6.3294183	4.0231799	3.1182347	3.7337793 5.0313765
## 72	4.3896770	6.5528618	3.6937318	3.0780253	4.4571993 3.8007476
## 73	7.2159082	6.9110787	7.1195871	6.7018959	6.6464245 6.6753221
## 74	4.1895160	6.2082534	3.5320502	3.1997519	4.9774487 4.1195995
## 75	4.1002851	4.3635634	3.7012257	3.6801645	2.7944668 2.9744395
## 76	3.9816319	5.0143915	3.2821919	2.8101213	3.4533011 3.8406853
## 77	5.1921399	6.3069332	4.6736150	4.2463350	4.9968852 5.1069431
## 78	4.9316861	6.5270430	4.5658476	3.9933688	4.7867091 4.8689783
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## 81	4.4083765	4.7114480	3.8617571	4.0065768	4.9889369 5.0315858
## 82	4.5840542	5.2687522	2.9097908	2.4092461	4.2616520 4.4517130
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## 89	5.3553051	6.7724270	5.0960919	4.4054604	4.2715831 4.3043416

## 90	5.7072607	5.9907266	3.9224562	3.6315123	4.4378227
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## 107	4.9811790	5.2707729	3.6962710	3.1533337	4.3398520
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## 108	4.6658136	6.1575370	4.4442939	3.5262565	5.0971015
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## 116	4.2892630	5.6823038	3.6875060	3.1194407	5.3612555
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## 123	4.3564644	6.0876914	4.6816280	4.2346757	5.2664405
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## 126	4.2454326	6.1193096	4.2908437	3.6113555	5.4696963
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## 127	4.6235896	6.5279082	6.5909859	6.6525068	4.7421388
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## 128	4.0665665	5.9159904	4.7957221	4.1646634	6.2440741
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## 135	6.5344567	6.4198336	5.3644476	4.9643003	5.8353109
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## 145	4.4450472	4.2439726	3.6601204	3.8688146	3.0598255
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## 146	5.0295292	6.1570314	3.4688686	2.6389963	3.5101835
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## 148	5.5314960	5.6013151	4.3842867	3.6772348	5.3373251
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## 149	4.0491164	3.0964852	3.4467103	3.7776884	4.5532626
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## 150	5.8017307	5.8283176	4.7586825	4.1250400	3.9253180
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## 151	4.4582449	4.9913542	4.8843421	5.2717505	4.5490489
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## 157	4.0255478	5.2733448	3.7482166	3.4369845	5.0162887
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## 158	4.7037933	5.8671268	3.3800296	2.7947909	3.2389551
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## 159	5.0470123	3.9093474	3.4529461	3.4443536	5.9064504
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## 161	4.9422848	4.7279411	3.5979170	3.3880392	4.4955018
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## 162	4.5506344	6.3532636	2.9734350	1.7403340	4.3194387
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## 170	5.1579568	5.2580651	4.9731117	4.6742011	4.4894883
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## 171	3.5553026	5.8126725	3.1649769	2.7239187	4.5391607
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## 172	6.2647623	6.9712644	5.3233789	4.4086810	4.9824017
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## 174	5.2109846	5.7266468	3.7360162	3.1562469	4.6646370
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## 175	4.7176038	5.9649892	4.1907202	3.8792917	3.7509912
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## 179	5.3305232	6.0969021	4.4426305	4.0495502	6.3887952
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## 183	3.6849373	5.1481316	4.2288903	4.1249876	3.5446786
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## 185	3.8298109	4.9875376	3.2708174	3.0093152	3.5958605
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## 186	3.9018572	4.0658774	4.5541276	4.5376544	4.7091306
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## 187	4.5759628	6.3306749	5.4821718	4.7487927	5.0389412
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## 188	4.9022907	5.8889927	5.7641903	5.7994065	5.1446704
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## 189	4.3257849	6.1487924	4.8461625	4.5089977	5.4466310
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## 190	5.7031481	7.1396142	5.5131539	4.8552031	4.7202801
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## 191	4.9501249	4.3131370	4.3527429	4.7885111	5.4452082
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## 193	4.4034353	5.6888822	4.6124749	3.9440796	5.4559953
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## 194	4.5470618	5.8927006	3.2242199	3.2022890	5.4141862
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## 195	5.5729255	6.4820718	5.3935410	5.1872110	3.3916871
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## 196	5.2367865	4.6198704	4.0297115	4.2315656	5.5977078
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## 198	4.9929132	5.4722194	4.4468660	4.1507538	4.9337194
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## 199	4.6432885	6.3374886	5.3727261	5.0258422	4.9961542
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## 200	6.0027285	7.2541545	6.7939315	6.7304407	6.8186593
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## 201	5.5308562	6.0956958	4.2079524	3.3666631	5.8155852
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## 203	6.0909278	6.0044959	4.8366257	4.4526915	5.3206620
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## 204	5.3545469	6.2484362	3.6892759	4.6221647	3.9551646
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## 205	4.7102671	4.6388756	2.7678835	2.4473032	5.0641142
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## 206	4.1135864	5.9078258	4.9452157	4.4332438	5.8333241
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## 207	5.0547364	6.7463035	4.7179827	3.9359783	5.5723899
	6.3669822				
## 208	5.6871685	4.7749064	4.0770155	4.0702455	5.4885577
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## 209	4.7377539	6.1491935	5.0569472	4.4762673	6.0373135
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## 211	5.3554055	5.7261201	4.8615162	4.8628911	3.9574757
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## 212	6.0278157	7.5854658	4.9077437	4.0622812	4.9328838
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## 213	5.6390726	4.8685942	4.2242740	4.2805965	5.2729416
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## 214	3.8248295	6.0984624	5.7674195	5.6100367	4.9111015
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## 215	5.3006801	4.8574788	4.1285279	3.7713972	4.5455708
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## 216	5.6922073	5.2695450	4.3978761	4.3566703	4.4463998
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## 217	5.9151555	5.9437977	5.3927064	5.0181572	5.2936699
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## 218	8.3692427	9.6286209	8.3430445	9.7148559	9.7873446
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## 219	4.4551512	4.7719889	4.0616407	3.7746385	5.4485597
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## 221	4.9950436	4.0245847	4.5046550	4.8135666	4.1814532
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## 222	5.7026394	6.5663348	3.7925313	3.3981015	5.1907137
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## 89	4.7733733	5.3993918	4.9537937	4.7838719	3.9001985
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## 99	3.6385862	4.8762408	4.4417582	4.6413203	5.1600093
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## 128	4.7085681	5.3458239	4.9495764	5.2527001	4.8225679
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## 133	4.7473917	5.4342490	4.0690484	5.3420654	3.9966147
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## 139	3.8362595	4.9550288	3.4763341	4.3233636	4.4642024
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## 141	5.2605239	3.6053753	3.2203502	3.7351019	4.8860397
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## 142	3.8519379	4.4663480	3.8942689	5.0110883	3.7074675
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## 143	3.6674860	5.4183496	4.2504488	3.9209045	4.2702602
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## 144	4.6778664	4.5785963	3.9591552	5.8028595	4.7714250
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## 145	5.2534479	2.5298004	4.4740439	4.6889113	4.8301033
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## 146	5.1011905	3.5706164	4.1486769	4.8961075	1.6998111
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## 147	4.9710982	3.6389162	4.3002746	4.9327942	2.2947861
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## 148	6.1282134	5.0741866	4.6760544	5.2726097	4.0117976
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## 150	5.6133421	5.0690295	4.6673228	5.2574783	4.4547617
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## 151	5.2137639	4.9209626	3.4302583	4.9031080	5.5894493
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## 152	5.9900651	5.6339519	5.2547000	5.1477926	4.6104801
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## 153	5.8188349	4.7389312	5.2701330	5.7960548	3.3426915
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## 154	4.9405744	4.5886944	5.0952780	4.6254049	3.1966880
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## 155	4.5201462	4.5306764	4.0525547	5.5616113	4.9960680
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## 156	3.6690358	3.9878977	4.3591782	4.4933881	4.6357166
	3.3313882				
## 157	3.6345948	4.3054402	3.7596087	4.9767277	4.0794975
	4.6106494				
## 158	4.8663841	3.6627585	4.3310884	4.6675210	2.1930215
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## 159	6.0080535	4.2536461	4.8440518	5.3544266	5.3120520
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## 160	5.8149995	3.7931347	5.3006780	5.3383266	3.3945333
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## 161	5.1775881	4.2302336	4.7855124	5.1405536	4.6603847
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## 162	4.6824473	3.4775996	4.9335605	5.8351610	3.0090239
3.2059572					
## 163	5.6430411	3.3440681	5.0971089	4.5779333	3.0381126
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## 164	3.5395449	5.2348722	4.5148407	6.2048931	6.1338492
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## 165	4.2333220	4.9956100	4.5354631	3.6745773	4.5363056
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## 166	4.8489882	5.1364052	3.7781758	4.7600770	6.2294020
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## 167	6.2119456	4.8617399	5.4341584	5.7599574	3.0991124
3.5274803					
## 168	3.8705911	4.7907421	4.2546634	4.5407702	5.7481615
3.9229626					
## 169	4.3030620	5.0008396	3.5325660	4.2619051	4.4213336
3.5513437					
## 170	5.3394391	5.1935702	3.9846698	4.9921933	4.8931576
4.9770715					
## 171	4.2928775	3.8556369	5.3047281	4.7339207	3.5761178
2.8646027					
## 172	6.6997214	5.4984004	5.9017797	6.1669676	4.1963163
4.6889491					
## 173	6.8865607	4.5946833	5.7200720	6.9315571	4.8697161
4.6171725					
## 174	3.9418741	3.8310344	4.2435385	5.2217623	4.0870393
4.0539624					
## 175	5.5069657	4.4430130	5.0453017	4.6007806	3.8869987
2.9426569					
## 176	6.1134641	4.0057088	5.4648589	5.5718267	3.2968521
4.3276985					
## 177	5.9342560	4.1846432	4.7408834	5.8772762	4.1447736
2.7739220					
## 178	4.5281255	4.9945527	4.3435759	6.3480103	4.6236339
4.5381080					
## 179	5.6682461	5.0002355	5.2732024	5.4322330	4.7618949
4.3114709					
## 180	5.5161681	3.7477200	4.3421105	4.9614108	1.9686185
2.8339243					
## 181	4.1035504	5.1890628	4.8064998	3.8977796	3.4534080
3.4530328					
## 182	3.6053937	2.7587208	4.5906899	4.3238833	4.5882001
3.4732558					
## 183	4.3693760	3.2824988	4.0569029	3.4586282	4.2251816
3.0817640					
## 184	5.6152912	4.4782083	4.0710783	4.4882849	5.4852845
5.1096146					

## 185	4.1800310	2.0081444	4.1439405	4.8472640	4.1393996
	4.0680190				
## 186	3.6887534	3.7494306	4.3923428	2.7463185	4.8803716
	4.8569564				
## 187	4.5183333	5.1535157	3.7191485	5.5157126	4.8777794
	4.7786883				
## 188	4.2597824	5.1215786	3.5155270	3.9758924	5.4058654
	5.1566111				
## 189	4.2286583	5.2711206	4.8242139	5.5505716	5.4769867
	4.5416991				
## 190	5.1870397	5.8352178	4.5273383	5.8183799	4.0515444
	4.9801717				
## 191	5.5611203	4.9257112	4.6697787	3.3747705	5.0150828
	4.2211484				
## 192	5.4414481	5.1319854	4.7565530	5.6177455	4.8642270
	5.3558264				
## 193	4.2782663	5.0514998	5.5829998	4.7028999	4.6593694
	4.1803981				
## 194	5.1253242	3.5580368	4.9820512	5.5458701	4.8299732
	2.9362189				
## 195	4.5154533	4.9681558	4.4510333	5.3167911	5.2039913
	4.8651397				
## 196	5.4940183	3.4720028	3.8355758	5.2189299	5.4136424
	5.1227470				
## 197	4.4370336	5.9617780	4.7465319	5.1192031	4.6806203
	4.3708400				
## 198	4.6016437	4.5614204	2.8831627	4.7906656	4.1989472
	4.2389786				
## 199	3.5874240	5.4870135	5.1130099	5.2344947	5.4999878
	5.0505313				
## 200	7.3353588	7.4989152	8.1343518	6.6507647	7.0706950
	6.3411254				
## 201	5.4678256	4.7633350	5.0907840	6.4081966	5.2223684
	4.2193873				
## 202	6.1020254	6.3229388	6.0604922	5.0110979	4.3829925
	4.9140139				
## 203	6.6554081	5.4135076	5.0425619	5.7972793	4.7701648
	4.6929324				
## 204	6.0073596	4.8543044	5.2858247	5.5976745	4.6117615
	4.4003269				
## 205	5.8788392	3.0746277	4.8695145	5.3810936	4.1895516
	4.0544344				
## 206	4.0414429	5.2912546	4.9180566	4.7380709	4.5915509
	4.8047324				
## 207	4.1459619	5.0162545	4.3899465	6.0031869	4.2084144
	4.8372968				
## 208	6.0538647	4.4419480	4.0572371	5.1062861	5.0164851
	4.1418702				
## 209	4.4785054	5.2703169	4.7431083	5.4273052	5.2721227
	4.6303918				

## 210	4.6513275	6.2403886	5.2543928	5.1745125	5.2374312
	4.7630120				
## 211	5.7758754	4.7241974	5.3855485	4.3020226	4.6334858
	4.2481996				
## 212	6.8250554	5.5535507	5.8869535	6.8475180	4.0671434
	4.0846600				
## 213	7.0700462	4.5691959	5.2729361	4.7081140	3.8323774
	4.9854812				
## 214	3.3171434	5.4729842	5.1339161	5.0688533	6.0998013
	5.6304420				
## 215	5.2770489	4.3880551	4.9651311	5.1009855	4.7414331
	4.9416533				
## 216	5.8537697	4.8790066	4.5300105	5.1490397	4.9375365
	4.3937593				
## 217	6.2318643	5.5999953	4.3427158	5.5457391	4.8954837
	5.3917871				
## 218	9.4774209	9.7400649	9.3070782	9.7900455	10.0433035
	9.9563942				
## 219	4.5495451	4.4386086	4.9855058	4.3569188	4.9675839
	3.9779938				
## 220	4.8823240	5.7450564	4.5287323	4.6815798	4.6854826
	4.7528875				
## 221	4.8260790	3.8076693	3.3755207	3.6834738	5.1345070
	4.8266146				
## 222	6.4375723	4.2932119	4.6768687	5.9892807	3.5261400
	3.3865687				
## 223	5.1463449	3.9553205	5.3730979	5.2801097	2.7079554
	4.3870476				
## 224	4.7268751	4.9985864	4.5490772	5.4126039	4.2002900
	3.7872791				
## 225	5.2958050	5.2834831	5.0380994	3.0699445	4.2003748
	4.8561864				
## 226	6.3829459	6.7671828	6.0005302	5.7298931	6.3729604
	5.5569122				
## 227	4.9308892	3.6524799	5.2230065	5.6086395	4.2349927
	3.9093008				
## 228	5.7523871	5.3922510	5.6264623	6.6742472	5.5573324
	5.0488269				
## 229	5.9391081	6.4426519	5.3809543	5.8344410	6.4359238
	6.2223406				
## 230	4.8743717	4.7776564	3.3592549	4.7195425	4.8580233
	4.7055556				
## 231	4.7015133	5.6029091	4.4088867	5.9301981	6.2932430
	5.4264598				
## 232	5.8155582	3.9317586	4.6092307	5.3064141	3.8790199
	3.1969434				
## 233	4.4463653	4.5877734	4.9860613	5.3241560	3.7514555
	4.5228072				
## 234	5.2347901	3.6180987	5.1610593	5.1521001	3.1213130
	4.0669975				

## 235	5.4248388	3.7723231	5.2673689	5.4143948	3.1310899
	3.9944300				
## 236	6.5013374	4.8880252	5.4430251	5.2442743	5.1805907
	5.7738667				
## 237	6.9960686	5.3774371	4.8182945	6.1007331	5.1149571
	5.0929726				
## 238	5.3612056	4.6163860	4.2703077	4.9235134	4.7164703
	4.0093918				
## 239	4.0969051	4.9300414	4.4936764	5.0118186	5.2117255
	4.3747670				
## 240	5.3952661	3.6767779	5.1809057	5.5335838	3.3014272
	3.8379940				
## 241	6.0159011	6.1262346	5.1483187	4.3499665	5.4694182
	5.9761013				
## 242	5.1736363	4.2487227	4.8536642	4.4486112	3.9003601
	2.4744735				
## 243	5.3290152	4.5872679	5.0998381	5.3417864	2.4530910
	3.5061222				
## 244	5.5046148	4.9734600	4.4244763	6.2431198	5.6385648
	5.3096027				
## 245	4.7189133	5.2087209	4.8476461	4.0166805	4.1988620
	3.4993757				
## 246	4.4158722	4.4224747	4.8940350	4.3249435	4.5569830
	3.9361510				
## 247	4.7700509	4.3137043	3.8213722	4.0868548	4.4778109
	4.8521034				
## 248	5.1219334	4.5325114	4.0865509	4.3764973	4.3410675
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## 249	5.5802270	4.5644598	4.9834060	5.4233979	2.1828131
	3.6883972				
## 250	4.4168818	5.9141249	4.8371797	4.9669344	5.0271477
	4.2610160				
## 251	5.7625653	6.1214069	5.0105256	5.6847169	4.9357226
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## 252	4.3948669	5.3934603	3.8802595	5.0894280	4.5809253
	3.8112283				
## 253	5.7470526	5.4890161	5.1950106	5.2145537	4.1102255
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## 254	5.1044823	5.8314311	4.7529829	5.0796145	5.7059751
	4.6903231				
## 255	6.1087989	5.3604278	5.6993577	6.1478384	4.6832617
	5.2254306				
## 256	5.2400637	4.5191141	5.7568190	5.3464278	4.2604225
	4.2062817				
## 257	5.0536678	4.8706503	3.2982569	4.8300428	4.2886158
	4.5715801				
## 258	5.3120232	5.3747044	4.9613837	4.7539021	4.5924188
	3.9020218				
## 259	3.8217905	4.9408518	5.3550574	4.9145237	4.7092940
	4.1403266				

## 260	6.1012268	4.6599760	5.2662118	5.3025155	2.8106973
	3.8599437				
## 261	5.2710485	4.7197565	4.2210361	5.0695906	3.7126431
	3.7811239				
## 262	4.7041015	4.8416639	4.4872783	5.4633827	4.9305651
	5.1338090				
## 263	4.0217097	4.5611311	5.1381303	4.4875869	6.1166405
	4.9817143				
## 264	5.4439367	5.6429613	5.1709332	6.1055396	5.7248302
	4.8763231				
## 265	5.1102411	5.1272133	4.5715877	5.0940209	4.6961159
	3.1031093				
## 266	5.4131135	3.8271711	5.2833324	5.3488588	3.1262357
	4.4172161				
## 267	5.0309732	3.8974922	4.5431847	4.6465901	4.3674874
	4.4409242				
## 268	4.5914906	4.9104687	5.1657853	5.5467574	5.1304592
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## 269	4.4397053	5.8037943	4.5146323	4.9479039	4.3678473
	4.3141439				
## 270	4.7163339	5.8635067	5.5488715	4.9142334	4.4650130
	3.9245239				
## 271	5.5878940	5.8194108	6.3228344	5.4118768	4.6480608
	4.1968238				
## 272	4.4122058	5.8402923	4.6584461	5.1181437	4.8370943
	4.0924432				
## 273	5.1747498	5.2223124	3.9258530	5.3327200	4.9261577
	4.6569883				
## 274	5.3105453	5.2340161	4.7093629	5.6276619	3.6571410
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## 275	4.8315427	4.1636741	5.4897397	5.6816328	4.7311208
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## 276	5.5940546	6.0596482	4.9822969	5.3599393	4.4233532
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## 277	5.4677392	4.9482113	3.3994691	5.0497550	4.5852676
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## 278	5.6949974	5.5407275	5.0040406	6.0473180	5.7368150
	3.4363296				
## 279	3.6228393	5.3557163	4.9045847	5.4421885	5.2399705
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## 280	4.9995793	5.8777134	4.8154193	4.0883441	4.6255838
	5.1331084				
## 281	5.9227224	5.6666726	5.3132483	5.1493070	5.4010352
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## 282	6.4849896	4.9908756	5.3645865	6.5092525	5.1714946
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## 283	6.1749715	5.9953301	6.4295849	6.0972632	4.9674625
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## 284	6.1302279	4.3291001	4.8855909	5.4137427	3.6995514
	3.6473441				

## 285	5.0648649	4.4662832	4.8377876	5.4129438	3.9636583
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## 286	4.6833341	4.9293516	5.4152094	4.4262585	4.6044335
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## 287	5.4184823	4.5937676	4.0698136	4.6268311	3.8095762
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## 288	6.1815094	7.0729140	6.3118804	5.0318193	5.1741196
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## 291	5.2829284	6.3259848	5.1027645	5.9334385	4.8363828
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## 121	3.4138408	4.2444648	4.7218047	3.1908760	5.7157973
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## 122	3.5461943	3.6178573	3.8721776	4.9001548	3.6750826
	3.4368968				
## 123	4.8535206	3.1806001	2.6468686	3.9362321	4.0189205
	4.9408574				
## 124	5.2925352	3.3652278	4.2240812	5.0940914	5.0116873
	4.2998890				
## 125	5.7816118	4.9185219	3.8147999	4.1099487	4.0086425
	4.5010879				
## 126	5.2246404	3.4563828	3.2599356	4.1831132	4.1602926
	4.3527478				
## 127	5.6055111	5.4560600	5.3480055	6.5296198	3.7948504
	6.1596059				
## 128	4.5699760	3.8606637	3.6061693	4.3534897	4.3126494
	4.5032637				
## 129	3.3872673	3.4876377	3.9731177	2.8286285	5.5467574
	4.0582159				
## 130	5.5059958	5.0913680	4.7183982	4.8986634	4.4400559
	5.0129324				
## 131	4.0652339	4.2363187	5.1957572	3.5455028	6.2910822
	4.0611156				
## 132	6.3456429	6.9177580	5.8520331	6.1780010	5.0490102
	5.5298418				
## 133	5.0740351	1.4168702	3.0756907	4.1630320	4.9063923
	4.4169462				
## 134	4.8325550	3.5677765	4.5846669	2.9877623	6.7879358
	4.5309522				
## 135	5.9547045	6.2614178	5.6646911	4.4610067	7.0615150
	6.1395869				
## 136	4.4352635	3.5942979	2.3229873	2.4285754	4.9102394
	3.4281682				
## 137	4.5723960	4.2410929	3.6799799	4.3868063	4.1690388
	4.0819747				
## 138	4.1473591	4.8657009	3.5524430	4.0948363	3.9492955
	3.5507201				
## 139	4.5470856	3.4156131	2.4404472	3.9193754	3.5455708
	4.6980795				
## 140	4.7765629	3.0755715	4.0569589	3.9343121	5.4221223
	4.2139515				
## 141	4.8144890	4.5602128	3.3290577	3.4740020	4.4512028
	4.0228427				

## 142	5.3219403	3.1605968	3.2082464	4.3917936	4.3682494
	4.9781636				
## 143	4.7854509	3.7107488	3.0929085	4.4654845	3.7558993
	5.4264292				
## 144	4.4957819	2.4027866	3.3946315	4.4526052	4.6371811
	3.4543625				
## 145	3.9347015	4.8752866	5.0289974	4.3624105	4.9646659
	4.4396284				
## 146	4.7774352	3.9759215	3.8760287	2.5137203	5.5208083
	5.2307292				
## 147	4.3254791	4.1603140	3.7019142	2.3147486	5.1395979
	4.7989480				
## 148	5.0937458	3.7521036	3.3207896	2.6033511	5.6821962
	3.9300373				
## 149	4.5502403	5.0809049	3.8889426	4.2135030	3.3822301
	3.5720397				
## 150	4.5660116	3.3563609	4.0053175	3.7948914	5.5520996
	3.8941188				
## 151	5.1775864	3.3777525	3.2323844	4.5329136	4.1586778
	3.8565904				
## 152	4.1417570	3.3985848	4.2141309	3.8541153	5.6191897
	3.7838048				
## 153	3.8506419	3.6598194	4.3221303	2.8833346	5.7015927
	3.9812550				
## 154	4.2808836	4.6889008	4.4855239	3.1224414	5.0999219
	5.5132668				
## 155	3.9681285	2.7375564	3.2112661	4.4356228	4.2418163
	3.0908828				
## 156	4.2678114	4.7611221	4.1300666	4.3829724	3.6282683
	4.2879992				
## 157	4.8455833	3.3067249	2.6417086	4.1152266	3.5750056
	4.1909854				
## 158	4.4711368	4.2361707	3.7827420	2.6505000	5.1091644
	5.0651652				
## 159	4.1032247	4.7847814	3.5426774	3.4547566	4.9691835
	2.5321774				
## 160	3.2865659	3.7113794	4.4798052	3.2940526	5.6925747
	3.7378187				
## 161	3.2602358	3.5422666	3.7398778	3.8539741	4.6481375
	1.7651238				
## 162	4.4536513	4.6506890	4.5453209	3.2891538	5.0508923
	4.6711736				
## 163	3.8532462	4.5328657	4.1447113	2.9822958	5.4975616
	4.6521952				
## 164	6.2022851	5.4196691	5.3882864	5.8368467	4.0365414
	6.0636296				
## 165	5.8325885	5.0042702	5.0610303	4.9388002	4.7895560
	6.2981335				
## 166	4.5577243	4.1734024	4.0098232	5.0484769	3.9073192
	4.4297922				

## 167	4.5428640	4.3884398	4.0488892	2.0123473	5.8706176
	4.5182221				
## 168	5.5294044	5.7778504	4.8180534	5.1711800	3.3250220
	5.3266902				
## 169	4.6560084	3.2654422	2.4439390	3.8146297	3.9840879
	4.7777021				
## 170	4.3475789	2.4432171	2.6876555	4.1215100	4.8887670
	3.8459248				
## 171	3.4029566	4.9750295	4.5889148	3.5373470	4.2514667
	4.7591605				
## 172	6.0523770	5.3309972	5.4526048	4.0266484	6.9295813
	6.4506694				
## 173	4.4819462	4.5504679	5.1975896	3.7813358	6.5418125
	3.8073655				
## 174	4.9890469	4.5087392	4.1604162	4.3665637	4.4656938
	4.5087584				
## 175	2.7619128	4.0000061	4.3921817	3.3438516	5.2994212
	4.3969901				
## 176	4.1666113	4.5079200	4.2749508	2.6148062	5.7603506
	4.2082331				
## 177	4.4221735	4.8292836	3.9942304	2.2760709	5.4787409
	4.2975987				
## 178	5.5515931	3.7004877	3.5698566	4.3257412	4.5406422
	4.3797162				
## 179	4.9740532	4.6484220	4.5895623	4.2319398	5.4182832
	4.5238397				
## 180	4.5683356	3.8596866	3.7144382	1.8274720	5.6498938
	4.9066425				
## 181	4.9521364	4.2237432	4.1492889	4.2235089	4.6297031
	5.4914875				
## 182	3.8415203	5.6522091	5.1073943	4.3588687	3.5830369
	5.2049864				
## 183	4.2045907	5.2808923	4.5675701	3.7760365	4.1445129
	5.5054625				
## 184	4.7749659	4.3306979	4.0105322	4.3274421	4.6035002
	3.4266057				
## 185	4.5209742	5.3049666	4.7505170	3.9427966	4.1749876
	4.8888025				
## 186	4.4961348	5.1509713	4.5790394	4.8970866	3.4166734
	5.0181342				
## 187	5.9559766	3.9937521	3.6523626	4.3750118	4.3440480
	5.1501444				
## 188	6.3934855	4.7537119	4.4797275	5.4931900	4.4284159
	6.6146487				
## 189	3.7630430	3.5508454	4.0076472	4.9691991	3.8712818
	3.7663041				
## 190	5.6592193	1.8735758	3.7452495	4.5734835	5.5418835
	5.0315296				
## 191	4.2540365	4.7922709	3.4579225	3.8861105	4.6063593
	4.4068049				

## 192	5.0058356	3.7416331	2.9859439	4.0233485	4.6713565
	3.8515163				
## 193	3.8998485	4.9605845	4.4633077	4.4804317	4.0641178
	4.3701029				
## 194	3.8517608	5.5085299	4.8674948	3.9493205	4.8556943
	4.7379060				
## 195	5.6858604	4.6781572	5.0675135	5.2443407	4.7372159
	5.0712272				
## 196	5.6299388	5.0777957	4.4917224	4.4422087	4.9465888
	4.3229702				
## 197	4.8756481	2.8605638	3.9497868	4.8824545	4.6261054
	5.0971950				
## 198	5.2289480	3.0751475	2.0073223	3.7696546	4.4757576
	4.6916730				
## 199	4.3041020	4.1249594	4.6071104	5.6986988	3.8863679
	4.9917967				
## 200	5.5928696	7.7322049	6.6805759	6.1985072	6.4116786
	6.7850261				
## 201	5.0556608	4.9605384	4.4850133	4.0534381	5.1831523
	3.7932161				
## 202	4.7857169	3.7405851	4.8393931	4.5494905	6.0081856
	4.9499344				
## 203	4.6340134	3.3241582	3.8743930	3.5076399	6.0997548
	3.0934389				
## 204	4.7715326	4.7570700	4.6291991	4.1079219	5.4629844
	4.5772407				
## 205	3.5447599	4.9223699	4.0689775	2.8630867	5.3401927
	3.8398810				
## 206	4.7217342	3.9802829	3.7700663	4.7596407	3.9946343
	5.0781207				
## 207	5.8092747	3.6672900	3.8752625	4.7190490	4.6974868
	5.1684958				
## 208	4.7206251	4.5175114	3.1451489	3.2910763	5.2898526
	3.5996964				
## 209	5.1895308	4.3890117	4.2306413	4.9163079	4.5172416
	5.3403271				
## 210	4.5509925	3.6176922	4.1696378	5.1160823	4.5703037
	5.0721636				
## 211	3.4862453	4.8659234	4.9756131	4.5021265	5.6570805
	5.3941772				
## 212	5.0283882	4.1044583	5.0953102	3.4192393	6.7260024
	4.6450096				
## 213	4.8115046	4.7516826	4.0490727	2.8763775	6.4899890
	5.1593893				
## 214	4.7569832	4.8314588	5.0661264	6.0554779	3.0017590
	5.0925517				
## 215	3.5128252	3.7776316	4.0601982	4.2236331	4.9410010
	2.7701313				
## 216	4.1226851	3.6608650	3.5863864	3.7435965	5.2467204
	2.9793825				

## 217	5.2583171	2.2821800	3.3475119	4.2443236	5.9387197
	4.5143326				
## 218	10.0084226	8.9711091	8.7042626	9.3210625	8.1632440
	8.2452958				
## 219	3.6455462	4.8996269	4.0946897	4.1778932	4.0095552
	3.9759548				
## 220	4.8522086	2.7667055	3.9220020	4.9356468	5.1067131
	5.3520385				
## 221	5.3517209	5.0725823	3.8690923	4.3763255	4.2081365
	4.8269682				
## 222	5.2953122	4.4698844	4.2372844	2.5701008	6.2723447
	4.9773598				
## 223	4.8111936	4.7223164	4.7650132	3.7727151	5.5231803
	5.3797724				
## 224	5.4434005	4.5377449	4.0465188	4.1123844	4.9483432
	4.9105532				
## 225	5.1992272	4.7201087	4.4156022	4.7540971	5.4678971
	6.0407282				
## 226	5.1386194	5.2942410	4.0872336	4.9419066	5.1202937
	5.0161369				
## 227	4.0030463	5.3456823	4.5322323	3.7454648	4.6598524
	4.4179341				
## 228	5.2916025	4.6873615	5.3862055	5.0689083	5.8841229
	4.4250500				
## 229	6.6869568	5.7088605	4.1265168	5.7274708	4.6835390
	5.6474362				
## 230	5.1472301	3.7973817	2.2417255	4.1297379	4.3583243
	4.6779973				
## 231	6.1721680	5.4909655	4.3167087	5.4203900	3.8615269
	5.3562758				
## 232	4.1795050	4.7512535	3.7179366	2.4344547	5.2912646
	4.3037342				
## 233	5.1779906	4.3756704	4.3314702	4.3161305	4.8496879
	4.6780508				
## 234	4.2266790	4.6511141	4.3326883	3.1526108	5.1744737
	4.6511965				
## 235	4.1895909	4.5868129	4.3466681	2.9581240	5.3234557
	4.4916916				
## 236	4.0526736	4.0397047	4.3100743	4.3615641	5.8771840
	3.1438845				
## 237	5.6566659	3.7925643	4.5350322	4.3368356	6.7594121
	4.4325149				
## 238	4.7395778	4.5587015	3.2714734	3.5693719	4.7526809
	3.8960377				
## 239	4.3490639	4.2363363	3.5221109	4.5754859	3.6118393
	4.4857543				
## 240	4.1191913	4.6308792	4.2728746	2.9079792	5.1986863
	4.2664266				
## 241	5.1678070	3.7945492	4.2893443	5.4994444	5.7611039
	5.7793298				

## 242	3.8441633	4.9512944	4.2048513	3.1839494	4.8677522
5.0929909					
## 243	5.1020282	4.4952471	4.3691390	3.1860655	5.5912382
5.4761526					
## 244	4.7923456	3.4185566	3.9273679	4.7901387	5.1800701
3.7428778					
## 245	4.6186249	4.4108675	3.7486469	3.8507861	4.3542432
4.7154995					
## 246	4.0002702	4.6550539	4.0551817	4.1808261	4.0519425
4.1293099					
## 247	5.9423478	4.7628529	4.4686628	4.5053760	4.9964033
5.7054112					
## 248	5.1398072	4.4150171	3.1919196	3.7539039	4.5904801
4.3223416					
## 249	5.5763947	4.3859532	4.6188665	3.3740964	6.0864593
5.9395391					
## 250	4.9850455	4.2703117	3.4585655	4.5978591	3.9474847
5.1541544					
## 251	5.9810679	3.3139767	4.5398032	5.2993666	6.1837726
5.9855601					
## 252	5.6067738	3.7309551	3.6143072	4.5790826	4.6895284
5.6938162					
## 253	4.6005044	3.2630323	3.9997984	3.9190933	5.5699443
3.8762429					
## 254	4.1452785	3.7346062	3.6466966	4.8904382	4.3974999
4.3180514					
## 255	4.7312978	3.7188977	4.7038725	4.3094452	5.9084421
3.4769892					
## 256	3.7655511	4.7297869	5.5029823	4.7150818	5.5654524
5.2306715					
## 257	5.4928983	3.1165526	2.0562079	3.7511098	4.6577691
4.6972761					
## 258	4.2724334	3.6818521	4.3555877	4.3637753	5.2408432
4.3908114					
## 259	4.6577096	5.1717519	4.8713911	5.0270632	4.2105149
5.1446854					
## 260	4.6897765	4.3646913	4.0929459	2.5092782	5.9350766
4.9942776					
## 261	5.2453412	3.8660552	3.4086120	3.3378130	5.1851308
4.3809919					
## 262	4.8237640	3.9995803	3.2297557	4.3674799	4.3092338
4.2771719					
## 263	4.6148461	6.1204758	5.1692363	5.4664097	3.2130138
4.9059218					
## 264	5.1413032	4.6038397	4.1765469	4.8098590	4.8406346
4.6767671					
## 265	5.1345730	4.6189520	4.1778007	4.0610176	4.9734336
4.9022942					
## 266	4.7363733	4.7959425	4.7442195	3.7168868	5.6620353
5.2880583					

## 267	5.4631451	5.5513305	4.9201995	4.2185795	4.9360673
	5.8994578				
## 268	4.8931847	5.1494757	4.7107921	4.6908454	4.3817152
	4.5281389				
## 269	5.7425361	3.7999770	3.8718997	4.7821322	4.8153334
	6.0013500				
## 270	5.2222225	4.9391398	4.6730854	4.6482304	4.8605679
	5.5380970				
## 271	4.1579188	5.1327172	5.4662522	4.7362806	5.5028871
	5.5215283				
## 272	5.2327256	4.0721313	3.6075313	4.5798090	4.2870198
	5.3936780				
## 273	5.2737032	3.8019475	2.4987142	3.9908530	4.5451269
	4.4769536				
## 274	5.8990972	4.1226968	4.1952066	3.9981599	5.6575163
	5.2090578				
## 275	3.8892549	5.6356614	5.0998765	4.1939099	4.6930451
	4.9592038				
## 276	5.6903347	2.7295815	4.0552481	5.0275824	5.8467108
	5.5543068				
## 277	5.7800394	3.4439425	2.7572398	4.1318744	5.2831262
	5.2044530				
## 278	5.4402904	5.3979238	4.7216631	4.5782837	5.3016726
	4.9340874				
## 279	5.0433099	4.6384265	4.3477050	5.2349804	3.8978312
	5.4178483				
## 280	5.4616091	4.0566714	3.6508990	4.8882927	4.8708120
	5.9604321				
## 281	5.1924995	5.1657292	4.6366408	4.3732600	5.5681085
	5.2803423				
## 282	5.3912240	5.6512103	4.6223830	3.5676376	5.6823171
	4.7171534				
## 283	6.0302675	6.1512933	5.3225146	4.8376597	5.6172695
	5.9721914				
## 284	4.8493018	4.6997960	4.2015794	2.7274424	5.9113959
	5.0774706				
## 285	5.2753944	4.3203653	4.2906644	4.2066678	5.2825977
	4.6218630				
## 286	4.2891851	4.8622099	4.4381358	4.5196487	4.4494398
	4.6405270				
## 287	5.4035018	3.9494513	3.3498568	3.5222536	5.2370657
	4.6120181				
## 288	6.1943852	4.8382124	4.8267226	5.5818939	6.0482535
	6.7454715				
## 289	5.5358953	4.0430051	3.5898411	4.6312263	4.7951902
	5.6030482				
## 290	5.8724952	4.9214806	4.1595898	5.2426321	5.9456073
	5.2835160				
## 291	6.0917967	4.0843464	4.3015901	4.8184440	5.4101306
	5.9490995				

## 292	5.5346681	4.3997961	3.7560946	3.7581445	5.2329599
	4.4950765				
## 293	4.8094520	4.8820565	4.8004211	3.7869458	5.8050722
	6.0340162				
## 294	3.7871957	5.6657806	5.0892963	4.1520042	4.8707627
	4.8790348				
## 295	4.5824113	4.8664220	5.3902087	4.3925044	6.1315653
	5.2484562				
## 296	6.0965699	3.7344271	3.4646519	4.3752553	5.3161796
	5.5310338				
## 297	7.8962137	6.2713588	6.6677635	7.0998598	8.0977649
	8.5373388				
## 298	6.1662971	5.4568080	5.4366915	4.1251245	6.4701300
	6.1368238				
## 299	5.3123954	4.7660555	4.5151761	3.4144381	6.1771019
	5.6537061				
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## 107 3.3270360  2.3096034  2.6877067  3.5632939  3.9621600
3.4090145
## 108 4.1865307  3.0358300  4.3720432  3.9007285  4.3802023
4.2231945
## 109 2.5436153  3.0181035  4.0814614  4.0741369  4.7570286
4.6241145
## 110 6.7111075  6.5946615  7.4120933  8.0697199  6.5983242
8.0344962
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## 111	3.6327970	4.4726995	5.3188293	4.8444987	6.0017912
	5.2660209				
## 112	2.5815633	3.3257658	3.9037948	3.7928155	4.6190411
	4.4095190				
## 113	3.3118262	2.2103567	4.2376510	3.7072131	3.6963633
	4.8511613				
## 114	4.9679016	4.6098119	3.8997568	4.0337409	4.8237010
	4.1320572				
## 115	4.5117112	3.3633363	5.3619601	4.5710712	4.7203871
	4.4985216				
## 116	4.4379898	4.0891658	3.1693221	3.4870584	3.9958125
	3.4946001				
## 117	4.4486123	3.9684806	3.9206313	5.2502772	3.1218972
	3.1892689				
## 118	5.7343499	5.4477738	5.2411617	5.8243090	5.5868304
	5.2514408				
## 119	4.5004272	4.3277776	4.1769144	5.3153299	3.1202982
	2.9874944				
## 120	4.6165762	4.3734175	4.7535352	3.8741516	4.8698539
	5.4758018				
## 121	4.0038538	4.4729470	4.5084175	4.7635031	5.0530209
	2.6651253				
## 122	4.3257884	4.0682286	4.6394809	4.4344301	3.0536228
	3.7457726				
## 123	3.3032517	2.9181641	3.2995220	4.5282892	2.3793241
	4.5316060				
## 124	5.4625182	5.3929356	4.7418382	4.4917628	3.6815478
	3.5752067				
## 125	4.7562880	4.0653824	4.5547096	3.1129743	5.5378169
	5.0462373				
## 126	4.7828305	3.9720745	2.2729330	3.9696919	4.3512346
	3.6202009				
## 127	6.0551103	5.1279322	6.0058362	5.0554367	5.2523661
	6.9015119				
## 128	4.0089257	3.3975894	3.2372291	4.8691839	3.6522452
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## 129	3.2899462	3.9799364	4.7712171	4.3797475	3.9841635
	4.1013018				
## 130	4.6975575	4.3514372	5.1061632	4.2068892	4.6334578
	4.4068863				
## 131	4.4421974	4.6541870	4.4965633	5.2122862	5.0224445
	2.9081221				
## 132	6.1717664	5.3814849	6.4253811	5.6233494	6.9499025
	6.3794926				
## 133	4.7379823	3.9412970	2.7325445	4.6447599	2.7408947
	3.7187266				
## 134	3.8957374	4.7792226	4.4840974	5.7041591	4.2046511
	3.2281579				
## 135	5.2219089	5.2938451	6.4040478	6.1708447	6.6562090
	6.5423638				

## 136	3.1041335	2.6574752	3.8769352	3.5896944	4.1398408
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## 137	3.9489300	3.6812773	3.6384897	4.7993179	4.0218627
	3.7887741				
## 138	4.4563845	3.6420428	5.0563319	2.7876213	5.3358077
	4.7253342				
## 139	3.2266404	2.5914640	3.4443704	4.3010970	2.7897891
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## 140	4.5051028	3.6686380	4.1476048	4.1581388	3.7169153
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## 141	3.9151425	3.4890370	4.8218142	3.0583147	5.0273567
	4.8176098				
## 142	4.8928638	4.2380097	3.1833619	3.8806498	3.7469929
	4.0208808				
## 143	3.8991631	2.6791177	3.5936080	4.5571056	3.2696991
	5.4279048				
## 144	4.8699164	4.6609981	3.9059622	4.1897603	3.0772416
	2.7270866				
## 145	4.7972666	5.3100013	6.1952654	3.6468480	5.1466068
	4.7166049				
## 146	3.1684063	3.8938562	4.1447472	4.1658427	4.3483529
	4.5105265				
## 147	2.8770561	3.5662210	4.1139983	3.8704660	4.6216159
	4.6040508				
## 148	3.6519114	2.7703638	3.0257210	4.5470783	4.5946322
	3.4691933				
## 149	4.5615366	4.1775183	5.3199838	1.4877926	5.4681587
	4.5762745				
## 150	4.4542261	3.5119275	4.3509786	4.3934986	4.0502697
	3.8516683				
## 151	5.0022790	4.6707884	4.3751032	4.1875703	4.1244750
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## 152	3.4216843	3.0309328	4.0641119	5.2574349	3.0607760
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## 153	3.4923743	4.0043216	4.1255205	4.6990339	4.4171980
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## 154	2.7141913	2.8587330	4.4589095	4.7695472	4.3648490
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## 155	4.7679952	4.3933182	4.1488796	3.9190849	3.4028558
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## 156	3.7930454	3.4262563	5.0157976	3.1977476	4.1557908
	4.2493695				
## 157	4.5600369	3.9200778	3.1431613	3.3116256	3.9567487
	3.9349080				
## 158	3.1837443	3.6785837	4.3108370	3.8672322	4.6572586
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## 159	3.9994717	3.6840301	4.8110378	3.8180574	5.3347763
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## 160	3.9437973	4.5076199	4.7677692	4.4953319	4.2944919
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## 161	4.2469664	3.7912720	4.5582189	3.3850884	4.1875976
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## 162	3.8242256	4.4054425	4.3794782	3.6627504	5.0889668
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## 163	3.6708096	4.0744321	4.7852346	4.2441721	5.0006780
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## 164	5.6534000	5.1280111	5.1278084	4.5034233	5.0599730
	5.4783922				
## 165	4.7817081	3.5643107	4.9301902	4.3152231	4.6421128
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## 166	4.5303796	4.2860388	5.2799747	4.6817226	3.6799813
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## 167	2.9676905	3.5116190	3.4120750	4.8888355	5.1808499
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## 168	4.5728550	4.1888882	5.7462659	3.3731231	5.3840931
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## 169	3.2358706	2.6062638	3.3669049	4.5758669	2.5957089
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## 170	4.5000773	3.8749525	4.0301921	4.6756298	3.2471761
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## 171	2.9651381	3.3974325	4.7902667	3.9707943	4.6375023
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## 172	4.9878802	4.7576433	5.1269060	5.8860458	5.8410844
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## 173	4.4358229	5.4440865	5.2796734	5.4078550	5.0233807
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## 174	4.6460151	4.2198468	4.7056263	2.7863464	4.7744969
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## 175	2.4847956	3.4549909	5.1537027	4.9579477	3.4002181
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## 176	3.4998923	4.1467855	4.1084980	4.6021969	5.1518695
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## 177	3.0378151	3.8096743	4.6105764	4.4042852	5.3348419
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## 178	4.8411561	4.5170515	2.8983731	4.1654220	4.3686448
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## 179	3.9598049	3.8267061	4.4571005	4.8877663	4.2657129
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## 180	2.8572582	3.5224870	3.8038272	4.3474738	4.3752421
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## 181	3.7150609	2.4213584	3.9935265	4.2574153	3.7764685
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## 182	3.6457955	4.3013822	5.8033315	3.1568715	5.1983964
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## 183	2.9673159	3.7363382	5.5722300	3.7989413	4.7784690
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## 184	4.7148915	4.4143543	5.2948490	3.6013262	4.8525635
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## 185	4.2721929	4.8609210	5.4618068	2.5166540	5.5903827
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## 186	4.3945905	3.7239808	5.4175078	3.0056894	4.6932750
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## 187	4.8492127	4.2198704	3.0220602	4.0825331	4.7437991
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## 188	5.3213003	4.7006386	5.2221617	4.8911218	4.1163446
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## 189	4.4574229	4.0515282	4.4589911	4.5704515	3.0082553
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## 190	5.1166818	4.4909348	2.8434033	5.1772463	2.9406211
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## 191	3.2547659	2.5668899	5.1557688	4.4857981	4.3572600
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## 192	4.6172750	4.1127636	3.1136816	4.5034951	4.5578787
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## 193	3.8746836	2.7884683	4.4985210	3.8598814	4.7500718
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## 194	3.1990612	4.4407055	5.8693951	4.3869345	4.9123821
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## 195	5.5379218	4.9456665	5.3613867	3.5695658	5.0806955
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## 196	4.9605689	5.0244043	5.3584761	3.4248948	5.3615985
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## 197	4.5175843	3.6870598	3.7082530	5.1950424	2.2467910
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## 198	4.1131532	3.7626515	3.5115858	4.0780285	3.5142983
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## 199	5.2113190	4.4761884	5.1694460	4.6151295	3.5221548
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## 200	5.7275230	5.3401176	7.2079237	6.7945513	7.8187109
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## 201	4.6168841	4.1284082	4.5222768	3.8926357	5.4792496
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## 202	4.3182997	3.3069427	4.0268564	5.7173169	3.6067111
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## 203	4.1010154	3.9041292	4.0811779	5.0330730	4.0943474
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## 204	4.5704414	5.0599237	5.6421297	4.7434677	5.1612221
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## 205	3.2914643	4.3342327	5.2321139	4.0606152	5.2615133
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## 206	4.3726574	3.5375873	3.6510794	4.6217406	3.6189218
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## 207	5.1852403	4.6866328	3.1820874	4.2244128	4.2162723
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## 208	3.5994961	3.6086679	4.8604484	4.0990849	4.8746887
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## 209	4.7380109	3.9822645	4.3696856	4.9141604	3.9342225
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## 210	4.6701782	3.5793321	4.2337965	5.2898788	3.3060126
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## 211	3.7439175	4.3626046	6.3168032	5.3450387	4.1572486
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## 212	4.1995092	4.7861341	4.2216840	5.7202659	4.8358757
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## 213	3.6062385	4.3212905	5.1003347	5.4952072	5.1971511
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## 214	5.6175369	4.8829223	5.3635964	4.1834638	4.5476100
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## 215	4.5321366	4.0363956	4.8967819	3.6601906	4.2929491
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## 216	4.1181309	3.7066445	4.7936462	4.1758864	4.2002823
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## 217	4.8719136	4.4439037	3.8763909	5.5329394	3.1048966
	3.9410170				
## 218	9.9287562	9.5664362	8.6824092	8.7212580	9.5526641
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## 219	3.5998190	2.7657641	4.9647138	3.6885850	4.5079050
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## 220	4.5350923	3.8974464	4.2675248	5.4487626	1.7020159
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## 221	4.6453583	4.1899554	5.5002422	2.8686367	5.3500914
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## 222	3.3772386	4.5357942	4.4424396	5.0654067	4.8503285
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## 223	4.3357487	4.6050584	4.6233256	4.2630580	5.1411574
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## 224	4.4342560	3.6996046	4.2548854	3.7218622	4.9775075
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## 225	4.2852009	3.3685023	5.2605240	5.0420524	4.1000667
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## 226	4.5050008	3.7095382	4.6642968	5.9815147	5.3240712
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## 227	4.0073547	4.5071086	5.3145530	3.5145247	5.7121772
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## 228	5.6594111	4.9943111	5.3174634	4.6938295	5.1515600
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## 229	6.0909668	5.5426543	5.6211200	5.2274132	6.1728593
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## 230	4.3643073	3.9580051	4.2803665	4.1638352	4.1754422
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## 231	5.5847291	5.0965234	5.0688047	4.0971475	5.9927607
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## 232	2.8720936	3.8559058	4.7905453	4.2095799	5.1614253
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## 233	4.7579359	4.0131345	3.9879483	3.4360621	4.8745566
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## 234	3.8502769	4.1609988	4.5303090	3.9362969	5.1353516
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## 235	3.7028144	4.0968045	4.2820199	4.0870304	5.1312843
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## 236	4.8070268	4.5000132	5.2183866	4.7632620	4.5646655
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## 238	3.8321070	3.3735999	4.6183173	3.6174118	4.9854185
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## 239	4.0826914	3.5015191	4.1928841	4.3158200	3.7798549
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## 240	3.5805519	4.1561664	4.3294731	3.9617878	5.1514591
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## 241	5.1043922	4.6394389	5.4190429	6.1310619	3.0139041
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## 242	2.2785890	3.1843848	5.1087503	4.5846536	4.4622203
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## 243	3.7619882	4.0558690	4.0698993	4.4897271	5.0077322
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## 244	5.2316363	5.0221299	4.7341085	4.7493887	3.8756454
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## 245	3.3337607	2.0998415	4.0760798	4.1954445	4.0869708
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## 246	3.6049597	3.0100107	4.6625008	3.6835496	4.1998064
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## 247	5.0440180	4.1639022	4.9286901	3.5704469	5.1236081
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## 248	4.1485531	3.5998575	4.6114947	3.4977370	4.8018554
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## 249	4.0807082	4.4081437	4.2182472	4.8698803	4.7978801
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## 250	4.0296981	3.0753125	3.6792469	4.8465917	4.0240222
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## 252	4.1350316	3.7458399	3.8449056	5.0208315	2.9348282
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## 253	4.4152584	3.5650888	3.8377170	4.5396810	4.0883115
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## 254	4.2484519	3.7904386	4.7992235	5.1583420	3.1958124
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## 257	4.2808626	3.8607177	3.3138641	4.3754826	3.6713131
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## 258	3.8150935	3.3407155	4.7125477	4.8425654	3.0133557
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## 259	4.4409010	3.6944182	5.0694338	3.8360891	4.7176082
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## 261	3.8454578	3.3584310	3.5992824	3.8906010	4.3808676
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## 264	4.4474190	4.3028117	4.2344407	5.2888460	4.2786229
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## 267	4.6482360	4.8055316	5.6208946	3.8355971	5.8818496
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## 268	4.2220285	3.9234935	4.9431701	4.0310426	4.7134953
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## 269	4.4256041	3.6623982	3.5586566	5.2173641	3.2223515
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## 270	4.1629498	2.9581611	4.3371735	4.6646788	4.6885082
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## 271	4.2396517	4.2248406	5.5596043	5.4596856	4.8858567
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## 272	4.0890940	3.2186830	3.5503039	4.9495547	3.7087627
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## 273	4.3279815	3.8631190	3.6735212	4.4066049	4.3715193
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## 286	4.0255482	3.1904435	4.7124513	4.1268320	4.5047420
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## 287	4.0739302	3.6134551	4.0825432	3.9782623	4.3543682
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## 292	4.1979817	3.9030915	4.2858607	4.0057734	4.7863223
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## 110 8.0915420 8.4269964 7.4104207 5.7676650 6.9004241
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## 113 4.4674762 5.9508140 4.6061918 6.6410243 2.7258999
2.8461508
## 114 5.8703507 7.6804823 4.2030068 4.8227731 4.1719332
5.1911104
## 115 6.4470272 7.2377849 5.4709072 6.0121049 4.4222493
4.0061614
## 116 4.4293968 6.3681284 3.6423715 6.1617468 3.1817554
3.5527269
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## 122	5.3036346	7.4392268	3.8931110	6.0597238	4.4513174
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## 124	4.5436946	6.6889816	3.4505770	6.2341866	4.4723694
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## 125	5.0629409	6.6008536	4.5644869	6.3887750	3.3215660
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## 126	5.6992077	6.5011619	3.8817157	6.1935155	3.1756212
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## 128	5.9010796	7.2877496	4.1615962	6.0881973	3.8654953
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## 131	5.1302143	5.3299975	4.6065495	5.9753646	4.0372658
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## 132	7.1849483	7.9567518	6.2691109	7.7635634	5.6488858
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## 134	4.2513841	6.5248562	3.3105022	5.8192036	3.8453024
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## 135	4.2546435	3.4591278	6.5446657	7.2967919	5.0515119
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## 138	3.4962668	3.7641562	5.1184458	4.9186473	5.4367475
	4.1963664				
## 139	4.4355530	3.0522381	3.6526795	5.4503470	3.7270068
	3.7369925				
## 140	4.3902833	3.9680186	4.7465096	6.6850663	4.7948977
	5.1045295				
## 141	4.8735521	4.3602904	5.3567909	5.3246634	5.4165690
	2.2829621				
## 142	4.9882832	2.2051507	3.9843559	4.8040591	4.2134943
	4.8514455				
## 143	4.0370397	3.8417508	4.1202036	5.7912293	4.6456316
	4.4489128				
## 144	4.6561351	2.2935241	2.9168519	4.9828143	2.6890515
	4.6048154				
## 145	4.9893441	4.9886734	5.4822293	5.8113607	5.4810411
	4.6945277				
## 146	5.5799239	3.9591833	5.4737050	6.3661773	5.4826117
	5.2020414				
## 147	5.0389578	3.8701978	5.3578895	6.4779113	5.4806139
	4.9012770				
## 148	4.8359776	3.7449221	4.4428745	5.0935930	4.4705673
	4.2605924				
## 149	4.4973331	3.7596734	5.2310281	5.2223026	5.2488961
	3.1554615				
## 150	4.1366238	4.2062124	4.7200282	6.3246572	4.7993674
	4.7294433				
## 151	5.0328655	4.2602257	4.3201179	4.9554096	4.3076885
	2.6191539				
## 152	4.1373785	4.5621251	3.0222090	5.7415580	2.9703592
	5.2420552				
## 153	4.4396816	4.4223109	4.5331305	6.6644686	4.7207016
	5.4026258				
## 154	4.6843659	4.6212165	5.1168350	6.6053370	5.2579645
	5.4303731				
## 155	3.9168720	2.4636767	3.0088739	5.0155095	3.1083189
	4.1999850				
## 156	4.3114104	3.2982957	4.4723554	5.8577896	4.2900554
	5.0687995				
## 157	4.4244074	1.6258566	3.7364146	4.5865526	3.9838195
	4.2027236				
## 158	5.0455402	4.0863020	5.5823789	6.4460761	5.7570515
	4.9955106				
## 159	4.2400531	3.5442018	4.4134419	4.2227820	4.3917384
	3.8232904				

## 160	4.2695316	4.2238871	4.0318827	5.1182573	4.2138746
	5.5305792				
## 161	3.0091248	3.3796157	3.4970990	5.1164807	3.6808483
	4.5876188				
## 162	5.1656108	3.2548336	5.0047106	6.4703021	4.9976476
	5.7416058				
## 163	4.5947984	4.2396698	4.9082567	4.5788150	5.2356288
	5.1296727				
## 164	6.0815172	3.8439008	5.0505300	7.2474281	4.7251077
	5.3486396				
## 165	5.2223502	5.1685327	5.6987204	6.9397709	5.8723033
	5.1941342				
## 166	4.7139383	4.6846408	4.0821982	5.9702909	3.9760816
	3.1328490				
## 167	4.9915410	4.3190241	4.7787944	6.0213514	5.0353887
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## 168	5.3186182	4.9444861	6.0185861	7.4142728	5.9281838
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## 169	4.6046855	3.1883730	3.5158970	4.9832756	3.5442937
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## 170	4.0781921	3.7793198	3.8643247	5.1404288	4.1710642
	3.5393332				
## 171	3.9836972	3.9767961	4.4319335	5.9551360	4.6230383
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## 172	6.2586568	5.4811974	6.5045684	6.9628304	6.5805822
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## 173	5.8361495	4.4300541	4.4111037	5.7840847	3.8819745
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## 174	4.8804399	2.8937029	5.1574176	6.3960713	5.1369956
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## 175	4.0435875	4.9189759	4.2670151	6.2898362	4.3619296
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	5.3414438				
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## 179	5.2123764	3.8860637	3.6979069	4.9632836	3.3225502
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## 180	5.3255640	3.9131237	5.1368825	5.8943256	5.1675912
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## 181	4.2289590	4.3098728	4.7799213	6.5882477	5.1134309
	5.4873560				
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## 183	5.0706413	5.0848609	5.6398878	6.6336590	5.7176494
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## 184	4.6518928	4.9143159	5.1364625	5.6538189	5.1306248
	3.3433419				

## 185	5.3043871	4.0974430	5.6826600	6.3904378	5.7109268
	4.6832177				
## 186	4.0968079	4.5772157	4.7735987	5.3850861	5.0634006
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## 187	5.5539655	3.5173830	4.6322770	6.2849647	4.7799855
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## 188	6.2454259	4.9468186	5.6788259	5.9507423	5.5883522
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## 189	3.5654339	3.2064726	2.1138865	5.5714159	2.1980871
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## 190	5.2348706	3.6638580	3.8130983	6.0178864	3.9756823
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## 191	4.0880812	4.8314870	4.9095178	4.7967869	5.0609786
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## 192	4.6635033	2.7619882	3.2323193	3.3826155	3.5125638
	4.1479755				
## 193	2.8664714	3.9223668	3.9067187	6.0480800	4.4493624
	5.4404666				
## 194	5.3441171	4.1456770	5.0537188	6.2413088	4.6811378
	5.4275648				
## 195	5.2057357	4.9084668	5.8825564	7.7212314	5.9312403
	5.1200726				
## 196	6.0604634	3.9752328	5.2854317	5.0118699	4.8425824
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## 197	4.2668669	4.0652916	3.3177045	6.2439619	3.5875330
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## 198	5.2636569	2.7769347	4.5581187	5.1514193	4.5727758
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## 199	3.6113581	3.9973684	3.7526449	6.4016211	4.1369696
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	6.8485951				
## 201	4.9545063	3.0606656	4.7995535	6.2716218	4.5887829
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## 202	3.9551345	5.2602898	3.5691680	6.0134266	4.0872922
	6.0338524				
## 203	4.7305847	4.3207907	3.8936368	5.4185387	3.7883399
	4.6942978				
## 204	5.2789146	5.2167700	5.9142883	6.4320952	5.8833952
	5.3534848				
## 205	4.9080287	3.8791331	4.9045839	5.0007319	4.8967194
	4.6289618				
## 206	4.1016892	3.2978304	3.0130199	4.7673120	3.5332315
	5.0691103				
## 207	5.5180021	2.1352974	4.1345683	5.7186473	4.1588434
	5.3780959				
## 208	5.1136944	3.9633084	5.1984340	5.4094127	5.0486519
	3.4846895				
## 209	4.9558351	3.3314887	3.8884527	5.2989688	3.8163782
	5.0209654				

## 210	3.5212056	4.5266526	3.6729597	6.5602142	4.2592625
	5.1151740				
## 211	4.5337903	5.7990408	5.4715722	6.6283317	5.6843842
	5.5702621				
## 212	5.6798012	4.8102987	4.7037269	6.8589495	4.5705496
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## 213	5.6552865	5.3835650	5.6008334	4.3333412	5.7891559
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## 214	3.8113432	4.6296189	4.0405379	6.6092729	4.5207803
	5.0909163				
## 215	3.1949216	3.7536627	3.8760753	5.3689422	4.1524991
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## 216	4.0360175	4.2353197	4.6000078	5.8382955	4.6232013
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## 217	5.2661567	4.1026319	3.8365973	4.6346373	3.8209988
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## 218	9.3811134	8.7943409	8.7981756	7.9388419	8.6093193
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## 219	3.2530076	3.7578170	4.0850787	5.3290564	4.2756129
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## 220	4.6024677	4.3921811	3.5469955	5.7742523	3.7702469
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## 222	6.3895573	4.2519195	5.4005678	5.9409620	5.0387740
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## 223	5.1794348	4.1569738	5.2540971	5.8870893	5.5092586
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## 224	4.9909727	3.7927428	5.5940264	7.1131281	5.7003230
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## 225	4.7887705	5.3356412	5.4632257	5.7659155	5.8197050
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## 226	4.4637597	5.1554372	4.3709487	5.3935434	4.8699601
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## 227	4.6075187	3.9371587	5.4863003	6.3785580	5.6582042
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## 228	4.9827149	4.1689484	5.0593058	6.9342074	4.8752560
	5.9615691				
## 229	6.0516540	5.2955519	6.5440651	5.6297147	6.6608690
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## 230	5.0666637	3.4514862	4.9871207	5.1352307	5.1201745
	3.1265451				
## 231	5.6988546	4.5399128	5.9428643	7.1148428	6.0981512
	3.7778346				
## 232	5.1148784	4.2329196	5.4712642	6.0828426	5.4951961
	4.3480564				
## 233	4.5889739	3.2113191	4.7377675	6.0809528	4.9664115
	5.6286905				
## 234	4.6887235	3.8469194	4.9683094	5.3457905	5.1809888
	5.3433715				

## 235	4.7106251	3.7338033	4.7050906	5.3542525	4.9048576
	5.3783856				
## 236	4.0579064	4.5554669	3.9406946	4.1651613	4.1479634
	4.9463513				
## 237	6.2242133	4.7823088	4.9633492	5.7181558	4.4369140
	5.3083222				
## 238	4.5777043	3.8874441	5.3247755	5.9961249	5.4059649
	3.8688461				
## 239	4.1203809	2.8755752	3.1872621	4.8662855	3.3152818
	4.3527319				
## 240	4.7739374	3.5913830	4.6640031	5.4094729	4.7878901
	5.2901730				
## 241	5.0315723	5.5305588	4.4179689	4.9389737	4.7539275
	5.1578023				
## 242	4.7074179	4.6833285	5.1899107	6.2810969	5.2484991
	4.8939603				
## 243	5.3584449	4.3985946	5.5908221	6.7127031	5.8149497
	5.6372375				
## 244	5.0192743	3.1036115	3.6538621	5.0853209	3.3253308
	4.5223224				
## 245	3.9082110	4.2554568	4.5237415	5.8483584	4.7646017
	4.7531807				
## 246	3.7197328	3.5990451	3.8838014	5.1691310	4.0021541
	4.9773315				
## 247	5.5245606	4.7308539	6.1042033	6.5128208	6.2213291
	4.3010247				
## 248	4.8342588	4.0293673	5.5657019	5.5564416	5.6242549
	4.0639474				
## 249	5.9919172	4.5240404	5.7864764	6.6516419	5.8520438
	5.9135283				
## 250	4.2380795	3.9305125	4.0455370	6.0092953	4.4690802
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## 252	5.6330030	3.5091446	4.2942503	6.0230952	4.1004921
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## 253	3.8381650	4.3742586	4.2247324	6.0835797	4.6078748
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## 254	3.8832860	4.4138392	3.5841359	5.8550125	3.8233697
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## 256	4.6753114	4.9506792	4.5445272	6.5185818	4.5883017
	6.4594886				
## 257	5.3948865	3.0709561	4.5066309	4.4644304	4.4931230
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## 258	4.1283897	4.5878413	3.9462693	6.3171005	3.9537246
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## 259	4.0662293	3.9942981	4.7294471	6.7297837	4.9781247
	5.8856445				

## 260	5.1354759	4.5114291	5.0845204	5.8754442	5.3670317
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## 261	5.0623553	3.4895506	4.8909926	5.9200083	4.8882654
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## 262	4.3809781	2.6349472	3.9206521	4.7430292	4.2582625
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## 265	5.1984515	4.0586646	4.8004742	6.4380194	4.5245528
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## 266	5.3015365	4.1752562	5.2813748	5.7438973	5.4486184
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## 267	5.7228407	5.2795728	6.6284622	7.0008960	6.7867815
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## 268	4.8046156	3.6191020	4.4498042	6.2078346	4.1978901
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## 269	5.3450117	3.9185990	4.2928561	6.0369908	4.4399572
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## 270	4.2919937	4.6681727	5.0243013	7.0817379	5.3846020
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## 273	5.0380847	3.2857942	4.5998931	5.2480335	4.7359482
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## 279	4.5369805	3.2758324	4.0582888	6.1582152	4.2552402
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## 283	5.7156974	5.8018609	6.8433354	7.1365839	7.1383779
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## 285	5.0844450	3.2826490	4.6636285	5.5865203	4.6903303
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## 184	4.8706418	5.5958993	3.8723015	5.3041469	5.2555826
5.7634454					
## 185	5.7869183	5.2842095	3.8094154	4.7608650	4.6760656
6.4885115					
## 186	5.0564409	4.1850347	4.9598515	4.0243594	5.5762196
5.5635667					
## 187	5.1083950	4.1927739	4.9054249	5.8083926	5.1814535
6.9763525					
## 188	5.6317687	5.0764022	5.6524130	4.6091706	6.4002439
6.5025583					
## 189	4.8818241	3.0271750	4.3746773	4.4402236	4.5259446
6.0324673					

## 190	5.4709716	4.2169459	3.9177704	5.1934923	4.4146922
	7.1216488				
## 191	5.5392939	4.4262203	4.4115631	4.4141386	5.7275158
	5.0072766				
## 192	6.3419343	2.4200200	5.0553673	4.8822948	4.4292207
	5.7443964				
## 193	5.0894645	3.3494964	4.6242011	4.4227765	4.8036935
	5.4719829				
## 194	6.9355085	4.6249378	4.2156756	3.7483002	4.8103369
	6.2214718				
## 195	4.2933541	6.2594233	3.9536739	5.4251162	5.5126515
	6.7571726				
## 196	7.3076465	4.8011989	5.2421430	4.0993382	5.0867680
	6.2836535				
## 197	4.3111756	3.8218670	4.0969427	4.7459638	4.8923071
	6.3649810				
## 198	5.4488331	4.0343653	3.8442482	4.8755279	5.3637203
	6.7092912				
## 199	4.0614961	4.2505113	4.4960482	4.8466921	5.3093216
	6.3303049				
## 200	5.5026664	7.0965176	6.2497755	8.1323599	7.2136212
	6.6587893				
## 201	6.9046098	4.4016505	4.7113610	4.6438168	3.9513716
	6.1697487				
## 202	5.7536405	3.9803253	4.4014631	5.1319603	4.3172692
	6.3702438				
## 203	6.5751453	4.4478112	3.6310434	5.3405459	3.8697597
	6.6925666				
## 204	5.5061578	6.2523477	3.0014983	4.8500403	5.0167679
	5.4669333				
## 205	6.9892632	4.4669713	3.5263482	4.9785696	4.0125483
	6.5171017				
## 206	5.4192899	1.9220045	5.1107657	4.2103266	4.9659911
	5.8250897				
## 207	6.2476189	3.4337612	4.8836509	4.2577825	4.6991376
	6.7085434				
## 208	6.4862350	4.8687697	3.9169583	5.1727265	5.3061152
	6.4630911				
## 209	6.3371465	3.0849518	5.3972004	4.1039645	4.7553447
	6.0576947				
## 210	3.5101508	4.2275693	4.2187728	5.7107464	5.1814128
	6.4643800				
## 211	5.3720919	5.8043710	2.9476274	5.5496202	5.4372575
	6.9867143				
## 212	7.0787038	5.1294281	3.4506099	5.6571954	2.8778322
	7.2703181				
## 213	7.3174483	5.0740333	4.0012003	5.7457072	4.8524242
	6.7762423				
## 214	2.9822671	4.5652258	5.1829735	5.4401895	5.7015563
	6.0917739				

## 215	5.4946933	4.4130949	3.2488497	4.8753456	3.9137621
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## 216	5.3297659	5.1156313	2.8690758	5.2158022	4.4961514
6.1818269					
## 217	6.3372395	4.2331848	4.1150376	5.5955439	4.3866019
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## 218	9.2163070	8.9710331	9.8294879	7.7951703	9.1123943
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## 219	5.6145235	3.5112969	4.4786014	3.8670956	4.7063710
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## 220	5.0226628	3.9436552	4.1210008	4.9610099	5.1311951
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## 221	5.0048361	5.7736777	4.2702998	5.2307359	6.0720724
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## 222	7.6277789	4.9243408	3.7091518	4.6835358	4.2014122
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## 223	6.6025420	4.6498976	3.7911387	4.4578772	3.9933771
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## 224	5.3432408	5.2283342	3.7904402	4.9270872	5.2360351
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## 225	5.8034694	4.8446804	4.6106878	4.7578580	6.0111648
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## 226	5.5414543	3.9873712	5.8127567	6.5259139	6.0873767
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## 232	6.0958614	5.1305522	2.8291436	5.2830748	4.6035589
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## 233	6.0061701	4.1568785	4.2724421	4.0394011	4.4103304
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## 234	6.4288321	4.3827995	3.5106381	4.3434034	3.4747042
5.8651748					
## 235	6.6246301	4.1107147	3.5772133	4.4886229	3.1411730
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## 236	6.7207794	4.3827092	4.1679465	5.2489021	4.1185046
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## 237	7.7013392	5.2993597	4.2713470	4.9831811	4.7798447
7.4309086					
## 238	5.4548859	4.9963222	3.6555990	5.0714719	5.3476859
6.0089455					
## 239	5.4970080	2.3741597	4.9501126	4.1535736	4.9638530
5.6764828					

## 240	6.6139828	4.1096569	3.5315113	4.3949091	3.3079359
	5.9992645				
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	7.0932883				
## 242	5.6532955	4.7359750	3.3179691	4.4907605	4.8970243
	5.9436192				
## 243	5.9163292	5.1141462	3.1300021	5.0046404	4.4105445
	6.6177687				
## 244	6.4296368	4.1737219	4.3815816	5.0341868	4.1868463
	6.8257369				
## 245	4.9445430	3.9579382	4.1562017	3.8631434	5.1031035
	4.9555797				
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	7.0133095				
## 250	4.2514973	3.5199830	4.7831861	5.1645526	5.7084366
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	6.7139089				
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	6.2688125				
## 262	5.6468828	3.3029194	4.6402564	5.1608759	4.7162769
	6.2508379				
## 263	4.5992162	5.0598599	5.3189165	5.1071960	6.1305214
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	5.1630253				
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## 286	5.7342136	3.3650495	4.7330818	3.8220736	4.8689152
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## 287	6.1776280	4.6723767	3.8002198	4.0328188	5.0062449
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	6.9087804				
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## 290	7.8344399	4.6923091	5.7038876	5.5380139	6.0373949
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## 152 4.3154256
## 153 4.4351888 3.6001647
## 154 5.5504854 4.2717461 3.6825943
## 155 3.5302145 4.2000095 3.9814992 5.0760255
## 156 5.2360011 4.2622337 4.8105138 3.7475713 3.9371966
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## 160 4.8096510 3.9884708 3.0448122 4.2639177 3.4917688
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	7.0033494				
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	4.9278281				
## 203	3.7835572	2.3357379	3.2758045	4.9646659	3.7546961
	4.8582886				
## 204	4.3961193	5.0143015	3.3106222	4.4053937	4.6468426
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## 205	5.1668940	4.7898336	4.0439777	4.2725452	3.9701090
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## 208	4.2918819	4.1626671	4.3543584	4.6631441	4.0895430
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## 209	5.2735350	4.7185572	5.6293612	3.9693316	3.8930524
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## 210	4.3197852	4.0020840	4.1113526	4.1905159	3.6205055
	4.7089700				

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## 217	3.5620294	3.7008379	4.4607975	5.0106748	3.2370300
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## 219	5.1089368	4.0813096	4.7797980	3.6238635	3.8493802
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## 220	4.3492511	3.5133615	4.5544879	4.2535905	3.5609249
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## 221	3.8788581	5.3726838	4.9477474	4.7091751	4.6688176
	4.1968176				
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## 244	3.9550294	4.4110566	4.7215637	5.3310401	2.0373800
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## 245	4.7305143	3.4954743	4.0818681	2.9554721	4.5338511
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## 246	5.0863904	3.7446476	4.6379278	3.7967981	3.8917667
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## 247	4.6476300	5.3377817	4.9547297	3.9982851	4.9211882
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## 248	4.2762471	4.6631755	4.1561750	4.1200087	4.1826344
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## 249	5.7190826	4.8655939	3.5110563	3.0578057	5.0693376
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## 250	4.5032066	4.2499830	4.5014450	4.0283140	4.1506465
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## 277	4.2289957	4.6974945	5.0269319	4.6712686	3.7564207 4.3701849
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## 284	5.1225608	4.7483054	3.6540977	2.9468294	4.7509249 4.4966805
## 285	5.3660113	4.4370434	4.4219626	4.4891332	3.8591263 3.2881764

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## 260	3.1631824	6.2385724	5.0363851	5.6707100	1.8198119
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## 261	4.2088848	5.2315713	4.4425408	4.9717865	3.2403019
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## 187	5.2644038	4.8864071	4.2512967	3.3271801	5.2204036
	4.2542805				
## 188	5.1534335	6.0863176	5.7006373	5.4153776	5.2036272
	4.9116263				
## 189	3.7636233	4.7466530	4.9796893	3.4025339	4.0497320
	4.8836202				
## 190	4.3327499	4.7526237	5.0343927	3.3895160	4.8749305
	3.9522545				
## 191	3.6233757	4.7300450	4.2455458	5.4111715	4.3133974
	4.2025083				
## 192	5.1694367	3.1572967	4.7647680	2.6866461	3.7426399
	4.3783004				
## 193	4.1861886	4.0450933	4.5915919	4.0321057	3.9969294
	4.3305895				
## 194	3.4855341	4.0069331	3.6782875	4.5272740	3.6820502
	3.6922896				
## 195	4.6041163	6.0408476	4.6639870	5.0996815	6.2119948
	4.6709686				
## 196	5.2961138	4.1915800	4.7194260	4.2099734	3.5317292
	4.4625767				
## 197	3.5146290	5.2610817	5.0356643	4.0608666	4.7233743
	4.3775904				
## 198	4.2395243	4.5338957	3.8301105	3.3045233	4.6813785
	3.3689962				
## 199	4.1352460	5.5891231	5.5767864	4.4208135	5.3019423
	5.1736145				
## 200	6.0232795	6.8902919	5.7640688	7.8134188	8.2222148
	6.5918880				
## 201	5.0288051	4.1108039	3.1378039	3.1879757	4.0354729
	3.9165873				
## 202	3.6282426	4.4025845	5.4147141	5.0144843	4.0594308
	4.3661161				
## 203	3.7449361	3.9271025	3.9714271	4.2331922	3.9956279
	3.8509946				
## 204	3.4860386	5.0142318	3.9839073	5.5043173	5.9669838
	3.9597011				

## 205	3.7741177	2.4367387	3.1989962	4.3144247	4.1128147
3.0268087					
## 206	4.5513085	3.9889228	5.3593559	3.3030261	3.5473821
4.4527299					
## 207	5.2452305	4.0860811	4.9478356	1.6017507	4.0593881
3.9738927					
## 208	4.1483069	4.4045584	2.9949466	4.4775526	4.4989456
3.6610015					
## 209	4.8433447	4.6926215	4.8882101	3.6828796	3.6600938
4.4616533					
## 210	3.7702485	5.6316826	4.9999544	4.7306499	5.6033771
4.8263580					
## 211	2.0156976	5.2189342	4.7502022	6.3560574	5.7094741
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## 212	3.7078698	3.7138188	3.6010191	4.3698149	4.6721341
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## 213	4.0112665	3.1230029	4.3047310	5.6923755	4.7670588
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## 214	4.8261492	5.8590498	5.9696551	4.8005300	5.7834973
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## 215	3.6876225	3.8806623	4.3686874	4.1269344	4.4438436
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## 216	3.3051640	4.7010172	3.3917500	4.6487570	4.9962346
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## 217	4.2134764	4.5867875	4.8000005	4.3262460	4.6235680
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## 218	9.7376837	9.1028826	9.5730535	8.5331620	8.9857330
9.7728863					
## 219	3.8385226	4.0264707	4.0548803	4.2290140	3.4839839
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## 220	3.4041021	5.2166277	5.3763429	4.5983468	4.5841120
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## 221	4.6456770	5.3440040	4.0750203	5.3398425	5.6661688
4.2258240					
## 222	3.8319524	3.1783794	3.0107688	4.1210175	3.8087799
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## 223	4.2152884	2.7197696	4.4343492	4.1375767	4.4267094
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## 224	4.4227719	4.9667244	3.3138582	3.9469136	5.2678468
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## 225	4.0000617	5.0250793	5.4349043	5.7514125	4.7111521
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## 234	3.8774375	2.2504640	3.5671885	3.9834844	4.1919190
	2.4428228				
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	4.5431248				
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	2.4658215				
## 241	4.1054063	5.6146251	6.3452076	5.9079908	5.2515071
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	4.5803236				
## 245	3.4665436	4.4063389	3.8790609	4.3600247	3.9485420
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## 219 4.6822013 9.3918395
## 220 2.7943137 9.5604963 4.1538477
## 221 4.9477242 9.1135240 3.9017732 5.0563939
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## 295	3.9361437	5.7442812	4.3057321	3.7665800	3.3137596
	3.3353686				
## 296	2.5091777	4.2388670	3.0062328	3.0054267	4.1661537
	4.7080996				
## 297	5.8029907	6.6311817	5.5856573	7.5475454	5.5063818
	7.5624791				
## 298	4.5130497	6.2915982	4.4405668	3.3191167	4.0055137
	4.1728626				
## 299	4.4604465	5.3456520	4.3887454	3.7156352	2.4024237
	3.9306385				

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## 299 4.3205287 3.8147044 5.6494102 3.6617354

#Hierarchical Methods
#1. Single Linkage Method
# Invoking hclust command (cluster analysis by single linkage method)
clus_heart_disease.nn <- hclust(Distance, method = "single")
clus_heart_disease.nn

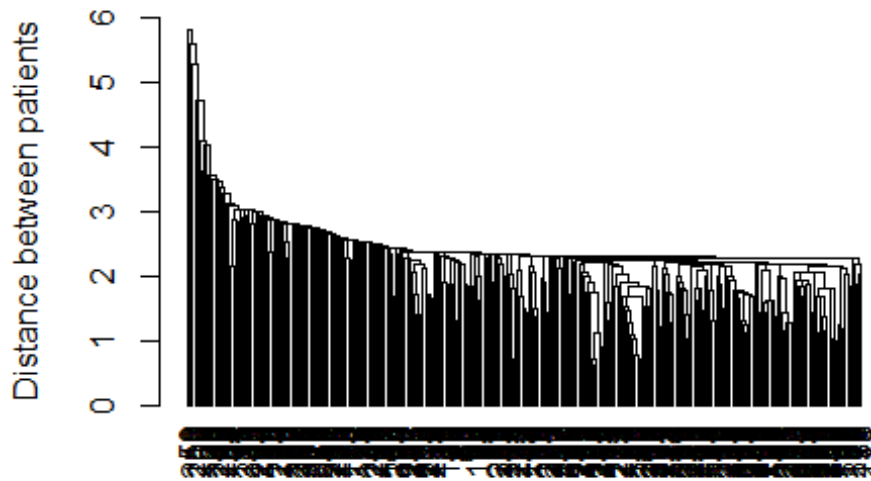
##
## Call:
## hclust(d = Distance, method = "single")
##
## Cluster method      : single
## Distance            : euclidean
## Number of objects: 299

#Plotting of dendrogram using Single Linkage method

plot(as.dendrogram(clus_heart_disease.nn),ylab="Distance between
patients",ylim=c(0,6),
     main="Dendrogram of 299 patients using Single Linkage method")

```

Dendrogram of 299 patients using Single Linkage me



#2. Average Linkage Method

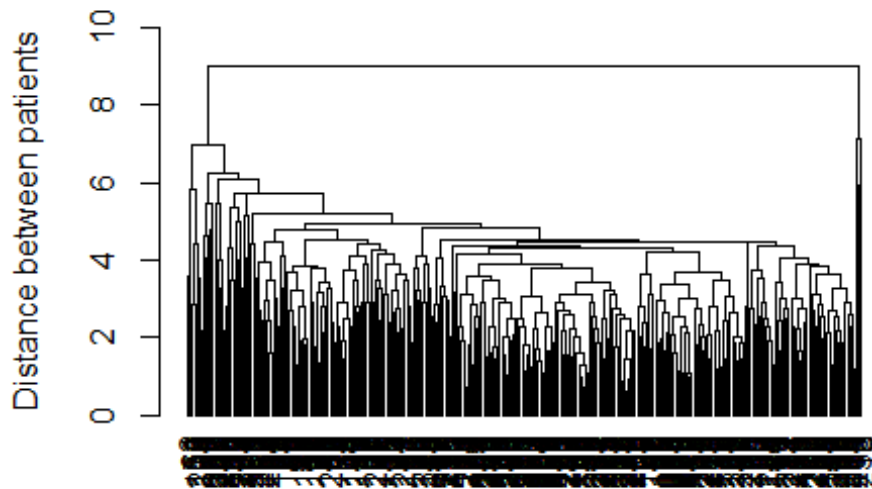
```
clus_heart_disease.avl <- hclust(Distance, method = "average")  
clus_heart_disease.avl
```

```
##  
## Call:  
## hclust(d = Distance, method = "average")  
##  
## Cluster method      : average  
## Distance            : euclidean  
## Number of objects: 299
```

#Plotting of dendrogram using Average Linkage method

```
plot(as.dendrogram(clus_heart_disease.avl),ylab="Distance between  
patients",ylim=c(0,10),  
     main="Dendrogram of 299 patients using Average Linkage method")
```

dendrogram of 299 patients using Average Linkage m



#3. Complete Linkage Method

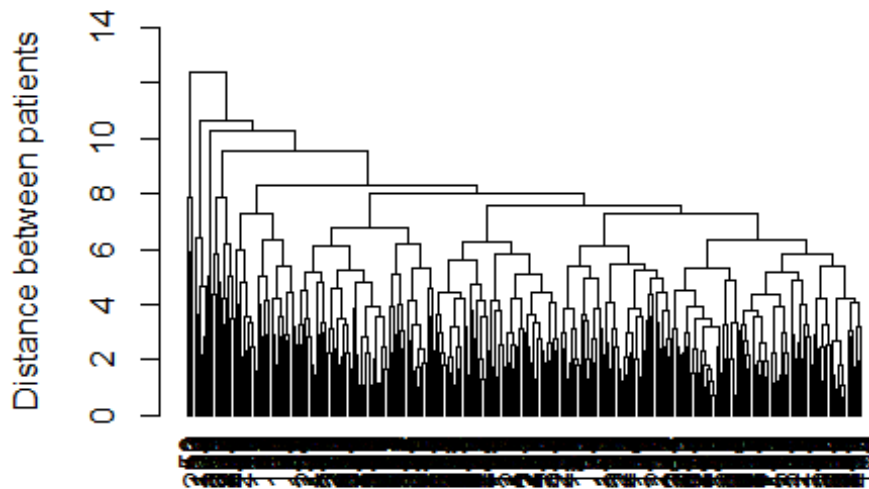
```
clus_heart_disease.fn <- hclust(Distance)
clus_heart_disease.fn
```

```
##
## Call:
## hclust(d = Distance)
##
## Cluster method   : complete
## Distance         : euclidean
## Number of objects: 299
```

#Plotting of dendrogram using Complete Linkage method

```
plot(as.dendrogram(clus_heart_disease.fn),ylab="Distance between
patients",ylim=c(0,14),
     main="Dendrogram of 299 patients using Complete Linkage method")
```

Dendrogram of 299 patients using Complete Linkage n



#Non-hierarchical Method

#K-Means

Centers (k's) are numbers thus, 10 random sets are chosen

```
(kmeans2.Heart_disease <- kmeans(scaled_dataset,2,nstart = 10))
```

```
## K-means clustering with 2 clusters of sizes 100, 199
```

```
##
```

```
## Cluster means:
```

```
##      age      anaemia creatinine_phosphokinase      diabetes
## 1  0.3827533  0.13819969                0.07713230 -0.01631398
## 2 -0.1923383 -0.06944708                -0.03875995  0.00819798
## ejection_fraction high_blood_pressure      platelets serum_creatinine
## 1      -0.4143370                0.10212448 -0.05983612      0.5166894
## 2       0.2082095                -0.05131884  0.03006840     -0.2596429
## serum_sodium      sex      smoking      time DEATH_EVENT
## 1   -0.3049122  0.002448190 -0.02367102 -0.7603101      1.344814
## 2    0.1532222 -0.001230246  0.01189498  0.3820654     -0.675786
```

```
##
```

```
## Clustering vector:
```

```
##  [1] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1
## 1 1 2 1
## [36] 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 2 1 2 1
## 1 1 1 1
## [71] 2 2 1 2 1 1 2 2 2 2 2 2 1 2 1 2 2 2 2 2 2 2 2 1 2 2 2 2 2 2 2
## 2 2 2 2
## [106] 1 2 2 2 2 1 2 2 1 2 2 2 2 2 1 2 2 2 2 1 2 1 2 2 2 2 1 2 2 2 2
```

```

2 1 2 2
## [141] 1 2 2 2 1 2 2 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 1 1 1 2 1 2 2 2
2 2 2 2
## [176] 2 2 2 2 2 2 1 1 1 1 1 2 1 2 2 2 2 2 2 1 1 2 2 2 2 2 2 2 2 2
2 2 2 2
## [211] 2 2 2 1 2 2 2 1 2 2 1 2 2 2 2 2 2 2 1 2 1 2 2 2 2 2 2 2 2 2
2 2 2 2
## [246] 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 2 2 2 1 2 2 2 2 2 2 2 2 2
2 2 2 2
## [281] 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
##
## Within cluster sum of squares by cluster:
## [1] 1426.235 1981.294
## (between_SS / total_SS = 12.0 %)
##
## Available components:
##
## [1] "cluster"      "centers"      "totss"        "withinss"
## [5] "tot.withinss" "betweenss"    "size"         "iter"
## [9] "ifault"

kmeans2.Heart_disease

## K-means clustering with 2 clusters of sizes 100, 199
##
## Cluster means:
##      age      anaemia creatinine_phosphokinase      diabetes
## 1  0.3827533  0.13819969                0.07713230 -0.01631398
## 2 -0.1923383 -0.06944708                -0.03875995  0.00819798
## ejection_fraction high_blood_pressure      platelets serum_creatinine
## 1      -0.4143370                0.10212448 -0.05983612      0.5166894
## 2      0.2082095                -0.05131884  0.03006840      -0.2596429
## serum_sodium      sex      smoking      time DEATH_EVENT
## 1   -0.3049122  0.002448190 -0.02367102 -0.7603101      1.344814
## 2    0.1532222 -0.001230246  0.01189498  0.3820654      -0.675786
##
## Clustering vector:
##  [1] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1
1 1 2 1
## [36] 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 2 1 2 1
1 1 1 1
## [71] 2 2 1 2 1 1 2 2 2 2 2 2 1 2 1 2 2 2 2 2 2 2 2 1 2 2 2 2 2 2
2 2 2 2
## [106] 1 2 2 2 2 1 2 2 1 2 2 2 2 2 1 2 2 2 2 1 2 1 2 2 2 2 1 2 2 2
2 1 2 2
## [141] 1 2 2 2 1 2 2 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 1 1 1 2 1 2 2 2
2 2 2 2
## [176] 2 2 2 2 2 2 1 1 1 1 1 2 1 2 2 2 2 2 2 1 1 2 2 2 2 2 2 2 2 2
2 2 2 2
## [211] 2 2 2 1 2 2 2 1 2 2 1 2 2 2 2 2 2 2 1 2 1 2 2 2 2 2 2 2 2 2

```

```

2 2 2 2
## [246] 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 2 2 2 1 2 2 2 2 2 2 2 2
2 2 2 2
## [281] 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
##
## Within cluster sum of squares by cluster:
## [1] 1426.235 1981.294
## (between_SS / total_SS = 12.0 %)
##
## Available components:
##
## [1] "cluster"      "centers"      "totss"        "withinss"
## [5] "tot.withinss" "betweenss"    "size"         "iter"
## [9] "ifault"

# Computing the percentage of variation accounted for. Two clusters
perc.var.2 <- round(100*(1 -
kmeans2.Heart_disease$betweenss/kmeans2.Heart_disease$totss),1)
names(perc.var.2) <- "Perc. 2 clus"
perc.var.2

## Perc. 2 clus
##           88

#Having two clusters will account for 88% of total variation
#We don't think Non-hirerachical method(K-means) is that suitable as we
do not have identifier column for our dataset

```