

# Visualizing Data

Erwing

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Installing packages, this one is for readr which allows readtsv

Had to update rlang with code, `install.packages("rlang")`

`install.packages("readr")`

Code to load readr

```
library(readr)
```

```
## Warning: package 'readr' was built under R version 4.2.3
```

To read in trees dataframe

```
trees <- read_tsv('data-raw/TREE_SURVEYS.txt',  
                 col_types = list(HEIGHT = col_double(),  
                                 AXIS_2 = col_double()))
```

```
## Warning: One or more parsing issues, call 'problems()' on your data frame for details,  
## e.g.:  
##   dat <- vroom(...)  
##   problems(dat)
```

Received error when attempting to read\_tsv says could not find function read\_tsv

Received feedback from the instructor that library() must be used for readr package

Ran into issue that desired file does not exist in current working directory, fixed by switching directory

Ran into issue “Warning: One or more parsing issues, call problems()‘ on your data frame for details, e.g.: dat <- vroom(...) problems(dat)”

Managed to load in tree surveys data, can view now with, ‘View(trees)’

##created object canopy\_area with the \$ function by first using the specific table trees and then multipluing the columns

```
canopy_area <- (trees$AXIS_1*trees$AXIS_2)
```

Used this code to check if the columns multiplied properly by printing and then manually calculating first few values

```
canopy_area
```

```
##      [1]      30.50000      69.71250      79.65000      39.05000      40.75000      6.16000
##      [7]       7.28750      12.54000           NA       9.62000      20.35000      18.36000
##     [13]      22.40000           NA      42.21000      2.24000      7.70000      14.60000
##     [19]      17.22000      23.43250      18.90000      18.36000      35.40000      55.25000
##     [25]      34.72000      14.82000      10.23000      12.21000      12.95000      20.02500
##     [31]      19.95000      30.07000      30.80000      37.52000      36.54000       1.87000
##     [37]       4.50000       6.36000       9.52000      12.45000       5.75000       4.62000
##     [43]       8.00000      22.95000      25.07000       9.45000      11.55000      21.56000
##     [49]      20.40000      43.22500      14.08000      13.76000      12.60000      24.44000
##     [55]      29.87000       8.75000       2.40700       6.24000           NA      20.47500
##     [61]       6.24000       5.78400       5.22000      19.76000       4.62000       7.50000
##     [67]      20.40000       6.72000       8.37000      21.45000       8.10000      10.43100
##     [73]      16.96000      49.70000      39.04000       1.20000       4.84000       5.00000
##     [79]      19.50000      31.27000       3.61000       6.39200       6.24000       9.72000
##     [85]      18.04000      19.38000      16.32000      25.25000      32.76000      65.32000
##     [91]      60.04000      50.13200      60.30000      78.26000     103.02000      15.60000
##     [97]       8.91000      13.64000      12.75000      33.92000       1.35000       4.07000
##    [103]       2.66000       8.99000       8.10000       1.10000       3.44000       4.33500
##    [109]       5.06000      10.54000       1.56000       3.33000       5.28000      10.88000
##    [115]       3.15000       1.75500       1.75000       2.06250       9.36000       5.06250
##    [121]       1.08000       1.81250       2.17000       1.95000           NA       1.05000
##    [127]       1.00000       0.95000       3.60000       3.24000       9.03000      14.31750
##    [133]      16.28000      12.58000      18.92000       2.94000       5.02250           NA
##    [139]      23.50000       5.75000       8.40750       9.92000      16.80000       4.14000
##    [145]       4.09500       8.70000      13.31250       8.40000       8.84000       8.82000
##    [151]      14.28000      17.86000       2.66000       3.46500       3.96000      11.70000
```

##	[157]	0.26000	0.32500	0.52500	1.32000	3.50000	7.43400
##	[163]	13.20000	12.30000	14.62000	15.99000	0.04370	NA
##	[169]	NA	4.20000	4.20000	6.75750	7.20000	15.20000
##	[175]	5.28000	8.12700	4.70000	16.72000	17.16000	10.54000
##	[181]	11.16000	5.50000	11.20000	25.07500	12.92700	17.83500
##	[187]	20.28000	29.25000	0.75000	1.21200	2.55750	3.80000
##	[193]	5.80500	0.26000	1.66170	2.47500	5.40000	5.41500
##	[199]	0.09000	0.27000	0.29250	0.16500	0.60000	0.42000
##	[205]	0.52500	0.34000	0.45500	3.30000	4.32000	5.16000
##	[211]	6.60000	8.68000	1.15500	0.95000	1.10000	1.82000
##	[217]	2.24000	1.75000	2.27500	4.00000	4.83000	5.98000
##	[223]	0.73150	1.43000	4.10000	5.75000	5.46000	0.91800
##	[229]	1.21000	3.42000	4.32000	7.67000	5.20000	6.44000
##	[235]	6.75000	8.77150	6.67000	3.04000	3.23000	5.29000
##	[241]	6.88500	7.28000	4.46500	4.08000	7.52000	6.32500
##	[247]	8.69500	7.44000	9.86000	11.20000	16.20000	6.76000
##	[253]	2.10000	2.02500	5.22500	4.24650	24.47500	3.80000
##	[259]	5.04000	8.70000	12.24000	10.85000	2.34000	2.72000
##	[265]	3.31500	8.80000	7.50000	7.02000	4.27500	8.10000
##	[271]	8.83500	10.47250	5.00000	4.48500	5.28000	4.65500
##	[277]	5.28000	2.16000	2.31000	3.23000	2.92600	4.37500
##	[283]	6.34680	10.85000	6.09500	12.24000	11.22000	33.04800
##	[289]	33.48000	45.54000	43.92000	25.92000	5.25800	7.80000
##	[295]	8.70000	12.95000	13.12000	7.70500	5.98000	7.44000
##	[301]	12.21000	7.56000	2.10000	2.31000	5.17000	5.40000
##	[307]	10.73000	3.07500	6.50000	6.12500	7.83000	10.23000
##	[313]	1.62500	11.90000	14.43000	20.68000	20.21000	11.59000
##	[319]	0.88000	1.32000	1.54000	1.75000	6.36000	9.92000
##	[325]	8.26000	11.20000	12.95000	3.15000	4.10000	3.51500
##	[331]	9.86000	7.56000	29.40000	33.04000	37.96000	63.99000
##	[337]	41.18000	6.57000	7.26000	6.20000	8.00000	8.99000
##	[343]	11.71500	16.20000	10.53000	25.48000	26.10000	18.55420
##	[349]	23.62500	44.55000	51.83000	28.32000	2.96000	5.06000
##	[355]	7.80000	7.56000	6.58000	13.96500	17.63000	15.64000
##	[361]	33.64000	27.50000	1.36500	NA	1.56000	1.21000
##	[367]	1.43000	57.60000	77.40000	107.91000	75.69000	25.44000
##	[373]	16.40000	12.71000	13.26000	30.80000	32.48000	6.02000
##	[379]	5.94000	7.83000	10.92000	0.47600	0.88000	1.87500
##	[385]	0.88000	0.99000	4.03520	2.88000	4.40750	15.99000
##	[391]	13.53000	0.94340	1.82000	0.60000	0.50000	0.68250
##	[397]	3.32640	0.35000	0.48000	0.21000	0.93500	0.45000
##	[403]	0.39650	0.35000	0.33000	NA	6.30000	6.24000
##	[409]	10.85000	9.10000	1.57500	1.43000	1.30000	6.90000
##	[415]	4.50000	3.23000	5.88000	6.16000	8.58000	8.16000
##	[421]	12.46000	10.08000	15.96000	23.50000	24.75000	3.38250
##	[427]	2.85000	4.08500	18.15000	11.16000	1.38000	1.04500
##	[433]	1.68000	1.20000	1.56000	6.16000	5.25000	3.00000
##	[439]	2.64000	NA	1.40000	1.54000	1.50000	1.62000
##	[445]	4.62000	1.62500	1.95000	1.44000	NA	1.48500
##	[451]	2.24750	2.88000	3.67500	4.20000	2.88000	3.40000
##	[457]	3.92000	5.50000	5.52000	1.84000	3.20000	5.79600
##	[463]	2.40000	4.30500	0.65000	1.20000	1.80000	2.40000
##	[469]	2.40000	1.89000	2.40000	2.55000	2.25000	1.62000
##	[475]	0.90000	0.10800	1.01760	0.80000	0.56000	0.19250

##	[481]	2.24000	0.42600	0.42000	0.59500	2.14500	2.24000
##	[487]	3.04000	NA	NA	31.63500	56.12000	24.99000
##	[493]	27.72000	48.28000	12.07000	8.51000	16.38000	56.00000
##	[499]	NA	21.31500	12.95000	18.04000	13.44000	24.99000
##	[505]	12.76500	18.45000	18.06000	28.00000	35.91000	14.61500
##	[511]	25.30000	22.08000	20.24000	36.64750	14.25000	14.80000
##	[517]	NA	NA	NA	7.96500	9.45000	6.09000
##	[523]	6.48000	11.47000	13.16250	12.60000	8.68000	10.66000
##	[529]	14.44000	9.29250	9.72000	12.87000	10.40000	15.39000
##	[535]	10.17750	12.71000	15.30000	14.00000	30.07000	1.37500
##	[541]	1.30000	0.99000	10.80000	4.50000	5.51250	7.54000
##	[547]	6.44000	5.28000	11.72500	6.12000	7.83000	8.68000
##	[553]	10.24000	9.61000	5.26750	6.24000	6.75000	7.02000
##	[559]	11.90000	20.90000	28.50000	10.32000	9.90000	10.36000
##	[565]	4.09500	3.60000	4.59000	6.48000	3.96000	8.70000
##	[571]	11.52000	14.82000	13.20000	16.65000	2.99300	NA
##	[577]	43.86250	18.45000	12.87000	NA	NA	13.32000
##	[583]	9.60000	7.54000	8.64000	6.48000	7.83000	2.72000
##	[589]	2.55000	1.65000	4.32000	9.44000	7.56000	8.74000
##	[595]	9.61000	15.36000	5.85000	4.20000	3.78000	2.08000
##	[601]	1.26500	3.09600	NA	NA	NA	NA
##	[607]	1.82000	2.48000	2.08000	3.78000	3.64000	1.76800
##	[613]	0.14000	0.48000	1.54000	1.35000	1.80000	1.43000
##	[619]	1.68000	2.89000	2.24000	4.11450	2.40000	2.52000
##	[625]	3.24000	5.46000	4.60000	3.22000	5.04000	1.56000
##	[631]	1.44000	0.39600	1.15000	1.43000	3.99000	0.81000
##	[637]	10.36000	22.56000	16.32000	11.47000	27.44000	5.88000
##	[643]	3.51500	3.23000	5.50000	7.84000	5.40000	2.28000
##	[649]	2.21000	3.15000	6.96000	8.68000	NA	NA
##	[655]	NA	NA	10.24000	10.88000	12.48000	11.10000
##	[661]	8.64000	1.53400	NA	1.92000	6.00000	NA
##	[667]	6.72000	7.28000	6.24000	4.75000	NA	5.03440
##	[673]	8.37000	5.52000	6.25000	7.39500	11.96520	10.62000
##	[679]	10.44000	8.06000	21.03750	0.62500	0.45000	NA
##	[685]	NA	NA	9.60750	12.54000	15.37500	8.40000
##	[691]	14.82000	8.55000	6.50000	10.07500	9.18000	9.28000
##	[697]	21.99500	16.28000	19.68000	15.30000	29.15000	10.23750
##	[703]	7.54000	5.67000	6.00000	10.88000	11.36000	13.50000
##	[709]	8.37000	12.24000	16.80000	2.31000	3.60750	4.40000
##	[715]	NA	NA	3.33250	6.00000	5.63500	15.36000
##	[721]	6.48000	3.99750	3.80000	2.80000	3.23000	1.69000
##	[727]	2.85000	2.46500	3.44000	3.74000	4.68000	4.83750
##	[733]	6.75750	10.24000	9.80000	10.88000	7.55250	9.90000
##	[739]	9.52000	12.00000	16.20000	6.98250	7.07600	8.40000
##	[745]	14.04000	8.99000	1.93750	2.28200	6.76000	5.75000
##	[751]	9.30000	14.63000	14.62000	15.60000	23.86300	14.35000
##	[757]	3.23000	6.06900	4.50000	7.75000	8.40000	5.80000
##	[763]	3.42000	6.12000	9.60000	9.80000	12.77500	13.86000
##	[769]	19.11000	15.96000	23.97000	1.14000	1.15000	2.10000
##	[775]	2.24000	2.40000	2.68250	3.57000	5.06000	5.60000
##	[781]	7.50000	10.40000	10.23000	14.40000	17.55000	NA
##	[787]	4.61250	7.14000	6.60000	10.56000	11.20000	0.85500
##	[793]	2.32000	3.30000	9.90000	5.67000	5.00000	5.26750
##	[799]	6.67000	10.88000	5.04000	1.14000	1.10000	1.44000

##	[805]	1.32000	1.95000	1.25000	1.23500	1.74000	1.87000
##	[811]	3.06000	3.51000	3.79250	3.70000	4.60000	4.83000
##	[817]	5.16750	5.98500	7.80000	10.89000	7.25000	2.24000
##	[823]	3.80250	8.74000	9.88000	7.56000	5.74000	9.54000
##	[829]	10.22000	14.04000	19.78000	6.63750	8.40750	6.24000
##	[835]	11.07000	12.80000	1.16480	1.47500	2.03000	4.64000
##	[841]	4.20000	16.65200	16.60600	14.82000	15.96000	19.20000
##	[847]	3.28000	2.45050	2.94500	7.02000	5.80000	4.29000
##	[853]	10.85000	11.40000	6.25000	7.80000	7.68500	5.75000
##	[859]	9.86000	9.50000	5.52000	5.51250	4.20240	6.89000
##	[865]	5.80000	9.57000	2.40500	2.52000	4.16000	3.00000
##	[871]	3.20000	6.70000	8.70000	8.06000	5.75000	10.88000
##	[877]	3.97750	2.80000	4.62500	6.24000	9.28000	2.48000
##	[883]	2.41400	3.20000	6.48000	4.18000	19.88670	26.50000
##	[889]	53.90000	65.60000	3.56500	NA	NA	7.24500
##	[895]	13.45500	11.02000	20.68000	23.52000	6.49000	6.40000
##	[901]	7.01500	8.25000	6.82000	1.49600	1.82000	3.06000
##	[907]	4.60000	5.46000	NA	8.21500	6.89000	8.70000
##	[913]	8.58000	7.83000	5.40500	7.42000	8.12000	11.90000
##	[919]	15.04700	8.66250	9.92000	9.60000	15.17000	11.39000
##	[925]	5.69750	7.02000	7.00000	5.50000	8.72620	5.63500
##	[931]	3.40000	10.50000	18.48000	38.16000	28.58250	35.28000
##	[937]	55.44000	55.38000	51.02500	12.07000	11.88000	19.68000
##	[943]	9.12000	16.40000	20.01000	8.64000	18.06000	14.00000
##	[949]	20.21000	8.83500	5.29000	9.92000	8.41000	6.12500
##	[955]	2.12750	3.23000	3.57000	7.25000	6.47280	6.77250
##	[961]	18.06000	18.90000	28.62000	43.82950	28.30500	27.00000
##	[967]	20.25000	30.60000	28.68800	1.15500	2.96000	3.51000
##	[973]	10.80000	13.72000	49.35000	64.78000	70.47000	73.32000
##	[979]	62.36640	15.92500	16.60500	28.06000	40.70000	63.14000
##	[985]	63.24500	77.31750	50.46000	78.30000	126.14000	5.14500
##	[991]	10.14000	11.34000	16.38000	24.96000	1.71200	3.04000
##	[997]	5.46000	6.16000	7.54000	7.15000	23.40000	26.40000
##	[1003]	28.67000	27.97080	1.20000	1.69000	84.63000	1.10000
##	[1009]	4.95000	11.39000	26.00000	25.44000	14.40000	14.22840
##	[1015]	2.02500	4.42000	7.70000	18.48000	15.94440	1.71250
##	[1021]	4.18000	9.52000	15.48000	8.23680	3.15000	10.44000
##	[1027]	13.60000	14.40000	17.28000	0.33000	0.42000	1.68000
##	[1033]	6.21000	5.18400	3.51500	2.40000	5.60000	7.02000
##	[1039]	4.51800	2.97000	4.80000	6.16000	5.00000	4.98520
##	[1045]	17.82000	12.80200	9.80000	7.83000	13.28940	13.00000
##	[1051]	NA	7.54000	6.21000	11.85700	1.82000	1.59900
##	[1057]	2.72000	1.20000	1.45600	55.30000	54.29000	132.16000
##	[1063]	114.00000	78.95920	16.12100	16.97500	31.32000	23.18000
##	[1069]	46.92000	1.66800	3.04000	6.16000	5.20000	6.31800
##	[1075]	2.46750	1.60800	3.00000	1.74200	2.82900	3.61920
##	[1081]	3.36520	6.44000	5.91250	11.52000	5.68960	9.30000
##	[1087]	12.92000	15.99000	17.86000	2.17500	2.24000	3.60000
##	[1093]	3.52000	6.08790	12.12750	12.16000	16.38000	12.09000
##	[1099]	23.86800	5.98000	7.00000	9.80000	12.21000	18.31750
##	[1105]	19.14830	18.72000	26.40000	12.96000	30.80000	2.52000
##	[1111]	3.36000	5.88000	5.40000	8.34400	3.00000	4.30500
##	[1117]	2.52000	6.21000	4.66400	6.44000	6.16000	5.50000
##	[1123]	6.72000	8.23440	4.62000	4.20000	6.88500	6.24000

## [1129]	6.96150	2.10000	3.23000	6.38000	5.75000	8.99000
## [1135]	3.36000	1.95000	3.42000	3.36000	4.14000	8.58000
## [1141]	14.16000	15.17000	15.36000	18.90000	4.20000	3.44000
## [1147]	5.98000	5.04000	8.99000	4.32000	13.12000	3.15000
## [1153]	7.28000	5.25000	13.20000	8.96000	22.26000	17.28000
## [1159]	31.35000	9.24000	3.04000	5.04000	9.62000	15.60000
## [1165]	5.75000	6.16000	9.28000	12.80000	10.60800	3.33000
## [1171]	3.51500	6.50000	7.50000	8.68000	2.59000	3.78000
## [1177]	7.83000	NA	8.97600	2.10000	2.70000	4.62000
## [1183]	8.16000	7.20000	6.61500	5.98000	11.52000	15.12000
## [1189]	16.04400	2.88000	3.57000	5.04000	8.40000	14.87700
## [1195]	4.80000	5.98000	9.28000	14.04000	17.83500	2.10000
## [1201]	2.40000	5.25000	7.28000	6.44000	0.70000	1.04500
## [1207]	1.54000	3.78000	5.48800	4.80000	5.52000	8.19000
## [1213]	2.52000	3.99000	1.30000	2.02500	3.23000	7.36000
## [1219]	10.69200	1.10000	1.50000	1.82000	2.24000	2.75400
## [1225]	2.10000	4.20000	5.72000	4.42000	6.00300	4.27500
## [1231]	3.42000	5.52000	13.53000	12.09000	1.72700	2.24000
## [1237]	7.25000	4.56000	6.76800	2.55000	7.54000	9.28000
## [1243]	8.06000	13.18400	5.00000	7.77500	7.00000	11.22000
## [1249]	17.85000	3.24000	0.84600	0.70000	0.48000	0.38850
## [1255]	14.96000	10.20000	7.56000	18.48000	17.55000	4.77120
## [1261]	4.20000	8.70000	8.68000	9.45500	2.00100	4.42800
## [1267]	6.72000	8.32000	8.28000	5.29000	4.41000	6.16000
## [1273]	7.44000	9.45500	21.82500	NA	15.36000	24.00000
## [1279]	28.56000	13.20000	22.88000	61.20000	19.78000	25.49330
## [1285]	5.46000	7.54000	9.28000	13.86000	16.80000	6.34500
## [1291]	4.40000	7.04000	10.56000	13.53000	5.14500	3.80000
## [1297]	6.50000	7.28000	6.48000	5.05250	6.48000	9.52000
## [1303]	7.28000	4.14000	3.67500	4.62000	3.78000	6.72000
## [1309]	6.09500	6.36000	13.00000	15.58000	9.86000	14.82000
## [1315]	5.17500	4.18000	5.00000	10.20000	7.70000	10.52250
## [1321]	NA	NA	NA	NA	1.68000	1.04500
## [1327]	1.17000	21.60000	16.65000	6.38000	8.06000	11.47000
## [1333]	9.92000	11.22000	2.45000	3.78000	5.75000	7.28000
## [1339]	7.44000	4.38750	4.42000	9.86000	5.13000	9.76500
## [1345]	9.96600	12.02500	6.66000	9.88000	8.99000	1.62640
## [1351]	2.03000	2.30000	5.25000	5.04000	1.11000	1.37500
## [1357]	0.66000	1.56000	1.95000	1.59600	0.52250	0.66000
## [1363]	NA	0.51000	2.34000	6.40500	2.04000	5.40000
## [1369]	4.62000	1.55250	1.32000	2.28000	2.34000	2.72000
## [1375]	1.00000	1.62750	0.52000	2.40000	2.80000	1.82000
## [1381]	1.44000	0.65000	1.10000	2.21000	2.66000	1.50000
## [1387]	1.60000	1.65000	3.06000	0.99000	0.41250	0.00000
## [1393]	2.38000	0.73500	1.75000	1.38000	3.96000	0.88000
## [1399]	0.24000	3.96000	4.37500	5.60000	7.13000	4.83000
## [1405]	3.23000	2.61000	3.80000	1.32000	1.32000	5.32000
## [1411]	NA	3.42000	2.72000	1.50000	6.08000	7.00000
## [1417]	8.37000	7.13000	3.70500	1.03500	1.20000	1.20000
## [1423]	1.68000	0.95000	8.10000	18.67500	16.40000	16.10000
## [1429]	10.38500	1.35000	1.82000	6.44000	3.45000	3.23000
## [1435]	2.38000	1.38000	3.06000	2.10000	1.10000	3.08460
## [1441]	2.55000	4.18000	5.28000	6.44000	3.08320	3.80000
## [1447]	4.56000	5.67000	6.50000	2.37600	2.97500	4.80000

## [1453]	4.37000	4.09500	4.51000	6.89000	1.26000	5.72000
## [1459]	2.60000	8.20750	10.50000	13.60000	16.40000	14.82000
## [1465]	2.04600	1.82000	1.04000	8.32000	1.32000	3.82200
## [1471]	4.62000	3.80000	6.38000	4.50000	0.74800	1.30000
## [1477]	1.38000	2.55000	1.95750	19.59600	19.80000	20.00000
## [1483]	17.64000	21.93000	1.04040	1.26500	1.68000	3.99000
## [1489]	2.08000	0.18000	NA	0.02000	NA	0.38500
## [1495]	11.40000	17.48000	14.62000	21.15000	24.99000	10.91500
## [1501]	11.84000	10.88000	15.17000	17.22000	7.82000	9.90000
## [1507]	15.99000	8.32000	20.09000	5.75000	7.83000	12.92000
## [1513]	15.99000	22.54000	12.24000	14.00000	13.86000	15.96000
## [1519]	30.68000	2.88000	5.50000	6.16000	6.38000	7.75000
## [1525]	10.50000	11.16000	14.52000	13.20000	24.00000	2.47500
## [1531]	4.60000	6.00000	7.44000	13.86000	2.70000	6.38000
## [1537]	9.24000	9.92000	5.75000	3.14500	6.37500	9.30000
## [1543]	15.99000	21.07000	1.75000	2.88000	4.18000	8.06000
## [1549]	14.04000	15.17000	17.60000	33.06000	28.42000	39.00000
## [1555]	2.38000	3.80000	9.69000	7.39500	13.76000	2.73000
## [1561]	11.88000	11.61000	17.48000	19.68000	2.17000	6.11000
## [1567]	8.68000	12.37500	13.32000	2.70000	8.12000	10.88000
## [1573]	14.04000	8.00000	3.31500	5.72000	10.56000	18.06000
## [1579]	15.96000	11.52000	10.93680	21.62000	14.40000	17.63000
## [1585]	1.88500	5.40000	11.16000	12.16000	19.74000	11.20000
## [1591]	15.20000	26.52000	27.36000	35.99000	2.17000	7.20000
## [1597]	11.47000	9.52000	11.16000	5.28000	9.57000	10.54000
## [1603]	13.30000	24.99000	2.34000	8.40000	8.75000	14.76000
## [1609]	11.16000	2.08000	5.50000	5.06000	6.44000	5.06000
## [1615]	4.32000	12.92000	12.92000	15.68000	16.56400	2.25000
## [1621]	1.50000	4.08000	2.40000	5.88000	4.32000	10.08000
## [1627]	18.45000	16.28000	23.10000	0.88000	1.30000	1.65000
## [1633]	3.57000	1.92000	2.28000	6.32500	5.46000	8.00000
## [1639]	9.28000	5.25000	4.90000	10.26000	9.86000	17.22000
## [1645]	0.29000	0.81000	1.32000	3.23000	4.83000	3.93600
## [1651]	11.10000	8.88000	8.99000	10.88000	1.12200	2.03000
## [1657]	2.70000	6.25000	8.68000	1.11800	1.56000	3.45000
## [1663]	6.21000	6.00000	1.13600	3.00000	2.40000	3.99000
## [1669]	3.91000	5.88650	7.50000	4.94000	2.31000	13.32000
## [1675]	5.27040	5.67000	9.57000	9.45000	14.80000	1.81440
## [1681]	4.62000	8.32000	6.50000	8.99000	1.32250	4.40000
## [1687]	10.88000	9.24000	11.31000	10.08000	7.65000	23.97000
## [1693]	31.36000	21.62000	3.01760	5.50000	13.53000	12.24000
## [1699]	11.20000	0.79200	1.45000	3.60000	3.04000	4.14000
## [1705]	2.62350	5.98000	6.75000	6.66500	7.92000	0.31500
## [1711]	1.10000	3.57000	12.95000	9.28000	4.75240	5.25000
## [1717]	7.56000	7.68000	8.70000	3.31740	5.32000	8.68000
## [1723]	11.90000	13.12000	0.48880	0.45000	0.78000	8.25000
## [1729]	0.72000	0.78720	2.21000	3.99000	3.91300	4.20000
## [1735]	20.16000	20.70000	5.20000	26.75100	29.12000	4.27040
## [1741]	4.48000	10.56000	20.77600	17.68000	4.14470	7.28000
## [1747]	9.86000	11.62500	11.48000	4.44000	1.75000	NA
## [1753]	NA	NA	1.84870	3.80000	3.99000	4.79700
## [1759]	7.54000	1.64980	4.18000	3.23000	3.88500	4.18000
## [1765]	6.07500	5.06000	8.99000	9.60000	10.23000	10.88000
## [1771]	10.50000	15.17000	16.72000	11.76000	7.15500	10.85000

## [1777]	16.38000	16.32000	17.50000	10.54000	11.88000	15.48000
## [1783]	17.16000	17.10000	6.75000	6.00000	9.57000	13.94000
## [1789]	10.50000	3.90000	4.62000	9.90000	9.80000	5.98000
## [1795]	4.94500	7.44000	15.17000	8.70000	5.75000	6.24000
## [1801]	10.23000	14.43000	18.00000	21.50000	7.15000	10.54000
## [1807]	15.54000	23.97000	10.50000	4.10000	5.75000	5.88000
## [1813]	13.26000	12.16000	1.68000	2.83800	7.83000	8.96000
## [1819]	10.80000	1.43750	2.56000	3.36000	3.12000	7.54000
## [1825]	8.99750	6.72080	11.22000	12.60000	16.80000	2.52000
## [1831]	5.00950	12.80000	12.16000	21.42000	3.88500	6.76000
## [1837]	12.95000	13.12000	8.68000	3.87000	5.06250	12.87000
## [1843]	9.00000	26.00000	3.51000	3.40000	7.00000	6.08000
## [1849]	10.23000	8.96000	5.75000	6.25000	14.00000	11.20000
## [1855]	2.24000	3.23000	6.44000	7.80000	7.28000	2.52000
## [1861]	3.20000	7.83000	18.33000	12.25000	1.74460	2.89000
## [1867]	7.50000	8.40000	6.48000	3.09400	6.96000	11.10000
## [1873]	8.68000	8.40000	7.29000	18.92000	16.34000	12.95000
## [1879]	16.80000	2.81240	3.06000	9.10000	6.21000	8.40000
## [1885]	5.19140	4.80000	11.16000	12.16000	NA	4.74430
## [1891]	3.70500	6.96000	8.00000	4.40000	5.26500	9.72000
## [1897]	11.20000	10.08000	19.78000	1.47290	2.56000	4.00000
## [1903]	3.06000	8.10000	2.66000	3.30000	7.00000	9.24000
## [1909]	6.21000	3.99750	8.40000	12.95000	10.54000	13.68000
## [1915]	1.50100	2.55000	2.73000	4.18000	5.04000	11.98520
## [1921]	9.57000	12.54000	10.44000	12.60000	3.87000	5.75000
## [1927]	4.60000	4.94000	1.51250	1.84600	1.95000	3.23000
## [1933]	4.83000	5.52000	1.66050	3.33000	2.55000	2.52000
## [1939]	2.24000	16.87300	19.74000	12.71000	15.91000	12.96000
## [1945]	0.86900	1.10000	2.70000	2.66000	2.88000	2.09920
## [1951]	2.34000	3.23000	6.24000	7.83000	2.46750	2.40000
## [1957]	2.08000	5.50000	3.40000	9.04400	14.35000	15.91000
## [1963]	13.44000	10.89000	1.03500	2.55000	4.56000	3.80000
## [1969]	5.94000	1.95000	2.85000	4.60000	5.46000	6.16000
## [1975]	4.10000	6.24000	7.02000	7.20000	8.68000	3.19000
## [1981]	6.30000	5.04000	7.50000	8.10000	0.88200	1.52000
## [1987]	1.95000	2.28000	5.72000	2.24000	3.60000	3.60000
## [1993]	7.80000	6.48000	9.42500	11.78000	14.35000	8.25000
## [1999]	14.00000	15.96000	19.78000	33.63000	16.34000	32.00000
## [2005]	2.52320	4.83750	7.75000	7.80000	14.88000	14.07600
## [2011]	18.33000	34.68000	17.20000	18.86000	0.77250	0.52000
## [2017]	NA	NA	NA	3.09720	4.40000	8.68000
## [2023]	6.76000	7.84000	3.00300	3.63000	6.72000	6.82000
## [2029]	10.56000	1.67700	1.66250	2.70000	1.76000	4.62000
## [2035]	1.66400	2.32500	3.96000	2.70000	4.62000	2.75520
## [2041]	2.97000	4.32000	5.37500	4.40000	0.59500	1.13300
## [2047]	1.95000	3.99000	4.83000	0.73870	1.38000	2.24000
## [2053]	2.38000	3.60000	2.19090	2.50000	3.30000	3.20000
## [2059]	2.70000	1.08100	0.94500	1.32000	1.56000	0.90000
## [2065]	0.85500	1.95000	3.80000	5.50000	6.44000	8.82000
## [2071]	7.83000	13.26000	11.84000	16.80000	10.07500	14.25000
## [2077]	16.40000	16.65000	17.68000	1.32000	2.72000	3.80000
## [2083]	8.12000	10.20000	5.59000	2.38000	3.78000	4.00000
## [2089]	4.83000	5.86500	6.24000	7.13000	9.92000	11.16000
## [2095]	3.07500	5.20000	10.56000	11.22000	10.88000	6.48000



## [2101]	9.45500	10.56000	11.10000	13.20000	5.04000	7.28000
## [2107]	7.83000	9.52000	7.80000	2.24000	3.99000	7.25000
## [2113]	6.16000	4.84000	5.56500	7.25580	17.63000	11.20000
## [2119]	14.80000	2.47000	5.35500	10.44000	11.84000	9.24000
## [2125]	8.99000	9.72000	18.13000	15.30000	13.68000	3.57000
## [2131]	3.41040	8.70000	9.92000	8.70000	5.52000	6.67000
## [2137]	10.23000	12.40000	17.48000	15.51000	17.94000	20.91000
## [2143]	25.76000	44.16000	2.16000	2.17000	2.40000	2.08000
## [2149]	3.99000	12.09000	10.08000	11.84000	NA	NA
## [2155]	3.06000	4.20000	6.60000	4.96000	7.25000	15.17000
## [2161]	13.98600	32.86000	22.26000	28.05000	2.85000	5.76000
## [2167]	9.28000	11.88000	8.37000	4.32000	4.32000	6.93000
## [2173]	8.70000	7.00000	3.51000	2.72000	4.59000	7.28000
## [2179]	4.56000	1.80000	3.00000	3.04000	3.36000	3.99000
## [2185]	1.26000	1.75000	5.04000	5.59000	12.16000	2.08000
## [2191]	2.70000	4.14000	2.85000	0.27000	2.08000	3.60000
## [2197]	4.41000	5.20000	5.94000	3.99000	6.50000	11.70000
## [2203]	12.96000	14.80000	5.32000	10.73000	24.99000	21.56000
## [2209]	11.52000	1.26000	2.29500	5.50000	4.56000	5.04000
## [2215]	2.53980	1.30000	2.10000	3.23000	3.42000	8.87600
## [2221]	12.96000	12.24000	17.64000	15.12000	3.02400	3.78000
## [2227]	7.36000	2.80000	2.40000	7.42000	11.88000	14.40000
## [2233]	10.23000	12.95000	4.90200	4.84000	4.20000	6.25000
## [2239]	5.52000	1.16600	1.32000	2.24000	2.40000	2.85000
## [2245]	2.41380	2.70000	5.88000	5.94000	5.50000	8.55000
## [2251]	7.83000	8.70000	5.29000	8.00000	1.35720	2.55000
## [2257]	3.99000	4.83000	5.94000	2.18550	1.43750	3.96000
## [2263]	5.25000	5.06000	9.73500	11.55000	15.96000	15.20000
## [2269]	13.86000	3.76740	5.46000	13.68000	9.00000	11.22000
## [2275]	19.88500	18.80000	35.75000	34.02000	44.20000	29.62860
## [2281]	32.50000	33.66000	53.25000	39.05000	8.31040	11.02000
## [2287]	9.88000	11.60000	13.44000	5.01600	7.54000	15.12000
## [2293]	23.37000	20.24000	32.36310	17.49000	25.44000	36.96000
## [2299]	24.44000	7.70000	7.13000	6.38000	3.57000	12.60000
## [2305]	4.41000	7.28000	9.28000	8.99000	17.63000	3.31800
## [2311]	4.20000	4.62000	NA	NA	3.88500	5.98000
## [2317]	NA	8.40000	NA	17.16000	17.48000	5.28000
## [2323]	14.04000	14.26000	18.45000	19.20000	22.56000	29.70000
## [2329]	24.50000	3.52000	3.40000	7.56000	10.20000	7.82000
## [2335]	8.68000	7.56000	14.40000	13.20000	10.85000	8.06000
## [2341]	11.20000	11.10000	NA	13.86000	10.92420	7.56000
## [2347]	5.51000	NA	NA	1.50000	1.89000	2.10000
## [2353]	2.88000	8.99000	2.85000	2.25000	1.35000	3.45000
## [2359]	3.06000	6.00000	7.89610	10.64000	10.73000	23.78000
## [2365]	8.40000	7.29000	11.22000	13.05000	16.92000	2.09000
## [2371]	1.71610	3.60000	3.80000	4.62000	4.11080	4.41000
## [2377]	5.72000	1.56000	2.88000	1.89000	5.76000	9.00000
## [2383]	3.20000	5.75000	13.68000	16.81000	24.38000	11.70000
## [2389]	10.56000	7.80000	4.84000	8.58000	2.24000	NA
## [2395]	8.21500	26.01000	18.13000	16.28000	19.38000	8.05000
## [2401]	11.22000	8.96000	9.43500	5.98000	7.00000	9.00000
## [2407]	7.83000	4.80000	8.91000	4.94500	7.92000	6.16000
## [2413]	3.67500	5.04000	11.20000	11.52000	18.45000	11.72500
## [2419]	4.62000	7.68000	6.50000	6.09000	5.87500	6.50000

## [2425]	4.90000	7.25000	8.28000	10.56000	7.75000	3.23000
## [2431]	1.95000	2.55000	1.59500	0.88000	7.20000	4.68000
## [2437]	2.66000	3.45000	2.55000	2.88000	7.44000	2.08000
## [2443]	0.60000	2.08000	8.06000	7.44000	9.60000	7.68500
## [2449]	6.44000	1.43000	1.38000	0.99000	1.32000	2.88000
## [2455]	10.80000	14.76300	15.17000	7.14000	11.16000	0.88000
## [2461]	1.08000	1.68000	5.25000	2.60000	9.52000	11.52400
## [2467]	10.73000	9.60000	13.68000	1.63350	1.66800	2.38000
## [2473]	1.40000	1.32000	8.64000	6.00240	7.25000	2.88000
## [2479]	10.23000	4.71750	5.44000	4.68000	3.60000	4.18000
## [2485]	6.52500	2.08000	2.25000	0.48000	1.08000	3.78000
## [2491]	4.20000	4.20000	3.23000	3.78000	0.80500	0.76500
## [2497]	7.20000	NA	NA	3.78000	2.40000	3.00000
## [2503]	1.49500	3.61000	19.60000	21.42000	40.42000	13.33000
## [2509]	30.60000	19.98000	24.80000	39.05000	24.91000	35.38000
## [2515]	8.64000	1.00000	2.16000	NA	NA	1.25000
## [2521]	1.95000	2.34000	1.43000	NA	3.14500	5.50000
## [2527]	3.15000	9.00000	4.83000	3.67500	4.62000	3.20000
## [2533]	8.10000	5.25000	7.68000	10.56000	13.33000	14.43000
## [2539]	14.04000	5.80000	9.24000	11.52000	14.43000	8.68000
## [2545]	17.00000	9.18000	15.05000	22.00000	23.32000	5.51250
## [2551]	11.52000	12.58000	24.50000	17.63000	6.78500	10.23000
## [2557]	13.12000	16.28000	17.63000	10.26000	11.84000	13.20000
## [2563]	18.80000	13.52000	2.72000	5.29000	7.25000	9.30000
## [2569]	5.25000	40.15000	47.57000	27.00000	60.00000	37.95000
## [2575]	3.72000	17.80200	27.44000	27.50000	34.02000	7.44000
## [2581]	8.00000	16.38000	15.60000	12.95000	9.72000	12.14010
## [2587]	12.24000	23.46000	16.34000	3.38000	6.90000	3.99000
## [2593]	12.16000	5.52000	3.69000	7.75000	9.99000	28.42000
## [2599]	13.78000	13.26000	10.88000	17.16000	25.50000	20.67000
## [2605]	16.56000	15.58000	20.58000	51.75000	31.11000	4.72500
## [2611]	8.26500	11.55000	23.03000	11.52000	8.00000	12.92000
## [2617]	23.52000	20.21000	18.20000	9.86000	17.22000	21.84000
## [2623]	22.54000	23.46000	3.04000	12.60000	5.44000	22.50000
## [2629]	15.05000	8.50000	8.40000	13.60000	19.00000	11.55000
## [2635]	7.22400	7.03000	12.09000	11.20000	14.76000	10.71000
## [2641]	20.09000	9.90000	31.86000	13.86000	3.85000	8.96000
## [2647]	5.75000	10.20000	12.16000	13.30420	22.54000	8.58000
## [2653]	33.00000	18.13000	13.54500	6.84000	14.35000	14.80000
## [2659]	4.93000	4.95000	4.25000	13.86000	17.50000	16.38000
## [2665]	7.83000	6.72000	9.86000	12.00000	8.37000	4.68000
## [2671]	7.80000	9.90000	9.60000	9.24000	6.90000	6.38000
## [2677]	4.32000	11.70000	3.78000	2.49750	2.21000	2.24000
## [2683]	3.45000	2.88000	8.40000	15.60000	14.04000	18.00000
## [2689]	10.44000	6.09000	6.00000	8.99000	12.25000	6.21000
## [2695]	1.78250	3.80000	3.23000	7.50000	7.20000	8.91000
## [2701]	10.89000	17.16000	13.32000	14.70000	3.88500	5.46000
## [2707]	6.21000	10.50000	8.10000	1.08000	1.43000	2.72000
## [2713]	5.88000	3.57000	5.85000	7.02000	7.02000	12.24000
## [2719]	11.16000	3.48500	5.04000	5.04000	8.10000	5.46000
## [2725]	17.39000	25.92000	23.97000	42.00000	21.93000	14.58000
## [2731]	13.12000	21.83000	28.50000	24.96000	2.43000	6.00000
## [2737]	4.56000	NA	7.35000	2.14500	1.32000	2.85000
## [2743]	3.52000	3.20000	0.38480	NA	NA	NA

## [2749]	NA	10.81990	12.95000	14.35000	10.88000	9.34400
## [2755]	11.84000	9.92000	13.87500	12.24000	24.48000	8.06000
## [2761]	6.48000	7.83000	10.88000	10.91500	25.97000	19.74000
## [2767]	25.48000	24.48000	29.14000	9.24000	13.26000	11.52000
## [2773]	13.53000	17.85600	7.48000	7.25000	7.56000	4.37000
## [2779]	5.09600	11.02000	10.40000	15.50000	15.58000	28.56000
## [2785]	10.15000	13.68000	13.50000	19.74000	23.40800	10.50000
## [2791]	12.92000	12.89750	15.96000	15.53630	8.06000	5.72000
## [2797]	7.08000	7.54000	11.07600	2.14320	6.16000	7.28000
## [2803]	23.50000	10.92000	4.41000	40.70000	7.39500	42.24000
## [2809]	16.77000	36.85000	44.88000	48.91000	35.51000	49.40000
## [2815]	11.73000	9.92000	8.68000	14.28000	19.89000	3.78000
## [2821]	4.18000	4.30000	4.60000	9.28000	3.42000	8.40000
## [2827]	11.20000	9.30000	11.78600	24.91000	42.78000	39.59000
## [2833]	37.80000	38.43000	2.76000	3.60000	6.12500	6.60000
## [2839]	5.67000	5.28000	6.72000	7.20000	7.50000	11.71200
## [2845]	3.60000	6.16000	6.75000	8.37000	11.02000	4.18000
## [2851]	5.00000	7.83000	3.23000	2.48000	8.06000	11.20000
## [2857]	21.46500	13.50000	18.36000	0.85500	9.28000	12.42000
## [2863]	9.99000	12.41000	1.32000	2.10000	2.96000	1.95000
## [2869]	3.96000	8.91000	12.24000	10.45000	13.30000	13.45500
## [2875]	1.50000	1.95000	4.30500	3.36000	7.91700	2.68380
## [2881]	5.28000	6.75000	5.98000	4.62000	8.45000	10.12000
## [2887]	17.22000	14.70000	15.17000	8.68000	15.60000	13.11000
## [2893]	24.38000	16.13850	5.94000	9.80000	15.17000	17.39000
## [2899]	15.96000	3.76000	1.56000	9.35000	6.24000	4.96800
## [2905]	1.61000	1.56000	3.74000	5.40000	6.60000	0.68000
## [2911]	0.76000	1.26000	3.99000	2.88260	1.53000	2.40000
## [2917]	3.51500	7.54000	5.88690	2.27970	4.62000	6.09500
## [2923]	7.80000	7.48800	12.09000	15.48000	10.26000	7.26000
## [2929]	13.95000	8.06000	6.50000	10.54000	8.96000	4.37000
## [2935]	1.91800	5.52000	8.99000	5.50000	9.89100	1.44970
## [2941]	5.75000	4.71500	7.28000	3.51000	12.39750	12.60000
## [2947]	11.93500	6.48000	9.13500	20.74070	39.00000	26.00750
## [2953]	24.96000	33.92000	0.72000	1.50000	3.06000	5.52000
## [2959]	11.22000	15.48000	25.92000	21.84000	24.75000	25.20000
## [2965]	16.98500	13.65000	21.07000	18.70000	19.78000	20.14000
## [2971]	5.04000	7.02000	8.64000	21.62000	27.54000	24.99000
## [2977]	22.95000	40.20000	36.85000	4.83000	8.40000	7.83000
## [2983]	11.90000	22.08000	16.56000	16.28000	13.76000	10.20000
## [2989]	24.48000	5.40500	4.75000	5.98000	6.50000	14.43000
## [2995]	17.16000	9.28000	16.80000	3.91000	21.12000	18.17000
## [3001]	4.68000	5.40000	3.96000	9.60000	8.37000	10.50000
## [3007]	8.68000	8.12000	14.44000	4.60000	17.63000	22.95000
## [3013]	30.25000	32.24000	22.36000	15.48000	9.46000	16.40000
## [3019]	28.60000	3.67500	3.99000	4.64000	4.56000	11.20000
## [3025]	9.52000	7.68000	8.40000	5.04000	19.11000	7.44000
## [3031]	13.87500	9.45000	NA	NA	7.14000	3.80000
## [3037]	10.22000	10.14000	20.24000	39.75000	48.36000	67.20000
## [3043]	41.60000	46.74000	38.08000	28.17500	35.51000	28.67000
## [3049]	35.96000	22.04000	7.42500	7.56000	9.24000	20.91000
## [3055]	3.24000	5.40500	8.40000	7.54000	21.12000	3.52000
## [3061]	3.04000	5.32000	13.26000	18.86000	5.04000	11.22000
## [3067]	13.94000	13.20000	23.92000	1.26000	0.60000	0.90000

## [3073]	6.00000	6.50000	1.72500	3.20000	6.82000	10.88000
## [3079]	19.20000	1.62500	2.40000	2.40500	1.43000	NA
## [3085]	5.25000	5.25000	6.12500	6.62500	9.30000	2.47000
## [3091]	3.78000	3.70500	1.68000	6.16000	1.26500	1.56000
## [3097]	2.38000	3.60000	6.76000	3.40000	3.96000	5.50000
## [3103]	4.75000	7.25000	0.27500	0.32000	0.30000	1.54000
## [3109]	2.21000	3.50000	3.99000	5.50000	4.62000	9.92000
## [3115]	2.80000	2.89000	5.46000	6.72000	11.47000	1.65000
## [3121]	1.56000	3.06000	2.52000	6.21000	1.37500	2.56000
## [3127]	2.40000	3.60000	6.72000	1.43000	2.55000	1.74000
## [3133]	1.54000	3.60000	5.86500	7.44000	8.40000	6.00000
## [3139]	12.60000	9.54000	13.60000	27.50000	29.12000	53.76000
## [3145]	1.86000	1.80000	3.99000	3.80000	6.38000	0.76000
## [3151]	0.76500	1.00800	NA	NA	1.03500	1.32000
## [3157]	1.08000	2.88000	2.88000	19.32000	21.60000	28.80000
## [3163]	19.27000	38.43000	20.80000	19.45800	16.50000	24.19000
## [3169]	35.36000	7.65000	10.56000	22.88000	17.55000	33.15000
## [3175]	5.14500	11.22000	11.00000	13.60000	17.48000	8.34750
## [3181]	9.30000	10.08000	13.76000	20.24000	11.60000	20.70000
## [3187]	29.16000	20.68000	39.06000	19.68000	18.06000	26.40000
## [3193]	17.60000	18.92000	10.54000	12.60000	11.88000	22.50000
## [3199]	22.08000	15.54000	19.32000	33.70500	31.32000	25.20000
## [3205]	17.22000	23.03000	16.80000	17.60000	13.80000	2.94500
## [3211]	4.18000	8.64000	4.40000	7.28000	2.28000	2.04000
## [3217]	3.20000	3.52000	5.28000	8.99000	7.25000	6.84000
## [3223]	5.94000	NA	14.08000	13.94000	NA	24.20000
## [3229]	NA	3.91000	7.02000	5.72000	NA	NA
## [3235]	7.84000	NA	50.92000	46.02000	68.89000	25.96000
## [3241]	28.62000	29.58000	NA	40.92000	2.34000	4.71500
## [3247]	5.72000	5.52000	6.25000	2.70000	5.17500	6.48000
## [3253]	4.60000	9.92000	7.56000	4.14000	5.75000	7.56000
## [3259]	NA	6.21000	6.89000	7.15000	9.52000	15.12000
## [3265]	14.57000	19.78000	14.52000	19.60000	12.92000	4.27500
## [3271]	3.40000	2.83800	1.65000	2.21000	8.70000	3.06000
## [3277]	4.60000	5.06000	3.24000	4.50000	5.67000	3.06000
## [3283]	4.20000	5.75000	3.89500	0.77000	0.70000	0.77000
## [3289]	NA	7.54000	2.38000	2.52000	2.85000	2.55000
## [3295]	3.12000	2.40000	1.92000	5.60000	4.40000	1.68000
## [3301]	1.17000	7.00000	3.20000	3.04000	5.11000	1.17000
## [3307]	3.78000	1.68000	1.56000	2.92300	2.72000	2.70000
## [3313]	2.16000	1.20000	8.96000	3.90000	10.20000	4.60000
## [3319]	4.40000	3.44000	4.08000	11.90000	6.93000	5.28000
## [3325]	1.35000	0.66500	1.10000	2.34000	2.24000	11.02000
## [3331]	14.35000	13.26000	8.96000	13.30000	2.03280	2.10000
## [3337]	3.20000	3.99000	3.80000	1.46050	1.82000	2.08000
## [3343]	2.38000	3.06000	0.28000	0.96000	1.08000	1.32000
## [3349]	2.56000	1.80000	2.17500	2.80000	1.62500	3.60000
## [3355]	2.72000	4.20000	4.18000	0.99000	3.61000	0.66000
## [3361]	1.56000	1.17000	1.80000	2.88000	0.30000	0.80000
## [3367]	1.32000	1.15000	2.56000	0.45500	NA	0.36000
## [3373]	NA	NA	19.04000	25.97000	24.96000	30.09000
## [3379]	30.24000	5.13000	8.68000	6.80000	3.99000	6.72000
## [3385]	9.57000	14.80000	21.42000	17.55000	28.60000	70.49750
## [3391]	131.61000	92.22000	50.22000	78.30000	18.65500	30.74000

## [3397]	33.60000	12.58000	25.44000	6.11000	8.10000	17.16000
## [3403]	18.00000	31.35000	10.08000	11.22000	12.91500	10.89000
## [3409]	13.86000	10.08000	13.32000	20.24000	37.20000	24.96000
## [3415]	6.88500	6.50000	8.26500	15.96000	31.90000	6.30000
## [3421]	5.75000	6.72000	9.57000	12.95000	3.80000	4.62000
## [3427]	7.00000	8.10000	8.68000	18.60000	12.87000	25.48000
## [3433]	18.00000	14.08000	7.56000	14.04000	18.80000	18.80000
## [3439]	16.80000	7.81750	8.10000	11.05000	12.40000	14.40000
## [3445]	6.50000	9.30000	14.40000	11.22000	22.09000	20.58000
## [3451]	36.54000	32.94000	33.60000	12.95000	8.83500	19.11000
## [3457]	31.92000	20.25000	26.52000	4.27500	12.18000	8.00000
## [3463]	17.28000	14.82000	2.97250	6.50000	8.80000	8.58000
## [3469]	11.20000	3.15000	7.56000	10.50000	9.92000	18.06000
## [3475]	8.19000	23.50000	16.20000	22.05000	25.44000	3.78000
## [3481]	5.46000	6.44000	8.10000	12.24000	3.01000	12.30000
## [3487]	23.52000	31.27000	32.00000	3.15000	7.42500	10.20000
## [3493]	9.90000	14.44000	2.96000	7.80000	10.14000	14.80000
## [3499]	23.52000	8.06000	10.36000	15.05000	12.40000	16.80000
## [3505]	3.71000	4.20000	6.12000	3.80000	5.50000	2.52000
## [3511]	8.70000	8.32000	12.30000	14.00000	3.87000	5.52000
## [3517]	5.72000	10.50000	12.87000	3.15000	4.62000	6.93000
## [3523]	5.00000	7.20000	2.80000	3.36000	6.00000	4.83000
## [3529]	8.12000	1.54000	3.06000	6.63000	8.40000	9.28000
## [3535]	6.80150	17.63000	22.56000	42.84000	49.68000	6.75000
## [3541]	5.98000	7.54000	10.88000	17.63000	0.37500	0.30000
## [3547]	0.70000	1.20000	1.68000	2.63340	5.28000	6.50000
## [3553]	6.90000	10.80000	0.92150	2.17500	2.40000	18.17000
## [3559]	5.88000	2.99250	4.92000	8.40000	8.40000	6.00000
## [3565]	0.71610	1.20000	1.56000	4.48000	2.25000	0.74750
## [3571]	2.10000	1.82000	1.30000	2.24000	1.56800	0.95000
## [3577]	1.68000	2.08000	2.88000	1.98400	3.12000	3.57000
## [3583]	6.21000	6.24000	2.57250	5.40500	4.70000	8.40000
## [3589]	12.48000	5.94000	8.10000	7.54000	15.60000	5.28000
## [3595]	7.00600	10.50000	9.10000	5.72000	7.80000	36.00000
## [3601]	28.00000	22.79000	56.88000	69.66000	NA	17.77500
## [3607]	24.44000	33.00000	31.32000	5.41500	8.37000	11.22000
## [3613]	9.30000	14.35000	3.15000	6.44000	4.86000	10.80000
## [3619]	11.20000	7.68000	14.06000	24.50000	20.40000	21.56000
## [3625]	14.20000	28.60000	29.70000	36.48000	44.89000	3.84000
## [3631]	5.28000	9.86000	7.54000	10.56000	6.34250	9.30000
## [3637]	12.95000	11.84000	18.00000	3.78000	4.25000	4.68000
## [3643]	14.40000	12.16000	3.64000	5.25000	9.28000	15.20000
## [3649]	18.00000	4.80000	10.88000	19.68000	21.93000	28.60000
## [3655]	10.56000	6.44000	10.36000	19.50000	10.88000	7.90500
## [3661]	NA	22.50000	21.50000	31.20000	9.80000	NA
## [3667]	36.54000	31.85000	30.72000	7.31250	NA	11.60000
## [3673]	18.80000	36.00000	2.01500	NA	9.30000	12.60000
## [3679]	15.20000	15.99000	NA	17.86000	35.40000	36.00000
## [3685]	6.72000	NA	6.82000	19.60000	16.77000	18.96000
## [3691]	NA	19.60000	31.80000	29.28000	6.24000	NA
## [3697]	10.73000	31.90000	17.15000	6.80000	NA	6.21000
## [3703]	32.40000	7.20000	11.38500	NA	16.38000	31.86000
## [3709]	27.56000	2.96000	9.28000	8.68000	17.00000	13.26000
## [3715]	3.23000	5.50000	5.52000	3.80000	9.90000	1.03500

## [3721]	1.82000	1.95000	3.20000	1.68000	2.24000	12.92000
## [3727]	11.84000	24.40000	16.80000	4.32000	5.46000	10.08000
## [3733]	16.00000	20.70000	1.02720	5.28000	1.54000	2.52000
## [3739]	7.00000	1.87500	5.75000	8.06000	12.48000	11.61000
## [3745]	5.40500	8.10000	10.15000	26.00000	11.02000	3.04000
## [3751]	10.15000	6.25000	9.90000	NA	4.00000	3.42000
## [3757]	5.25000	6.90000	4.40000	2.03740	3.42000	2.88000
## [3763]	4.00000	6.50000	4.24270	5.04000	6.09000	9.30000
## [3769]	8.10000	9.21150	10.88000	9.52000	9.60000	12.60000
## [3775]	4.80480	6.50000	7.80000	6.60000	8.58000	3.93750
## [3781]	8.06000	11.56000	13.33000	19.20000	2.23440	2.10000
## [3787]	2.97000	9.90000	5.06000	3.27320	5.50000	3.80000
## [3793]	9.45000	6.90000	4.62000	4.94000	2.55000	13.20000
## [3799]	11.90000	6.68850	5.20000	6.09000	11.10000	9.00000
## [3805]	3.20380	4.20000	7.83000	9.90000	4.80000	15.20000
## [3811]	NA	18.00000	26.40000	33.12000	24.78600	NA
## [3817]	41.18000	60.00000	36.00000	5.65800	NA	11.55000
## [3823]	20.00000	17.64000	27.88750	NA	27.54000	43.55000
## [3829]	62.40000	22.49100	NA	25.97000	49.68000	56.76000
## [3835]	4.18500	7.56000	12.58000	10.88000	2068.00000	9.12040
## [3841]	10.91500	15.96000	24.84000	45.56000	11.77050	17.20000
## [3847]	22.95000	19.27000	25.38000	10.49200	6.65000	19.00000
## [3853]	15.91000	23.50000	8.35050	10.88000	13.30000	9.00000
## [3859]	18.92000	8.03320	6.98250	14.40000	9.24000	15.58000
## [3865]	30.29620	41.26500	33.04000	30.60000	40.92000	1.33200
## [3871]	2.10000	4.20000	2.72000	3.60000	23.99400	20.16000
## [3877]	26.50000	34.20000	28.62000	1.21200	1.74200	1.32000
## [3883]	1.68000	4.18000	21.09580	39.65000	37.21000	44.16000
## [3889]	59.20000	15.04000	12.58000	24.00000	21.15000	24.00000
## [3895]	31.36080	38.19000	43.50000	44.80000	49.28000	26.84700
## [3901]	31.86490	34.56000	46.15000	61.32000	59.13450	42.47800
## [3907]	31.90000	68.08000	90.24000	17.42640	15.68000	14.28000
## [3913]	23.52000	22.08000	9.89080	10.23000	16.40000	13.69000
## [3919]	18.49000	14.76000	11.07200	13.65000	12.40000	18.48000
## [3925]	11.93700	14.06000	26.95000	23.52000	43.52000	6.41200
## [3931]	7.50000	9.00000	5.98000	9.00000	6.55000	6.48000
## [3937]	8.00000	14.43000	16.80000	2.55000	2.08000	1.56000
## [3943]	2.30000	6.76000	5.85550	5.75000	5.98000	6.00000
## [3949]	7.68000	4.08240	5.25000	10.23000	11.52000	6.50000
## [3955]	1.49000	2.24000	1.68000	0.80000	1.69000	1.77000
## [3961]	3.20000	2.52000	2.40000	4.18000	1.28400	1.82000
## [3967]	0.72000	1.32000	2.20000	1.05000	1.20000	1.43000
## [3973]	4.80000	5.20000	3.64450	6.60000	5.04000	9.80000
## [3979]	20.21000	4.60000	6.42200	6.75000	5.40000	7.54000
## [3985]	1.80000	2.94000	4.60000	7.00000	4.00000	8.03600
## [3991]	7.25000	11.04000	10.56000	23.52000	28.22240	42.88000
## [3997]	11.90000	46.86000	41.18000	6.07420	7.84000	19.35000
## [4003]	6.27000	16.81000	3.49680	3.23000	2.66000	6.16000
## [4009]	7.50000	13.68510	17.76000	18.45000	20.24000	15.58000
## [4015]	3.08760	3.99750	4.62000	5.04000	6.75000	34.15300
## [4021]	46.20000	24.96000	42.00000	61.50000	11.25400	9.10000
## [4027]	12.16000	13.30000	26.52000	2.25940	3.50000	3.60000
## [4033]	6.96000	7.25000	25.64940	5.75750	45.44000	30.60000
## [4039]	36.96000	19.73760	27.28240	23.40000	16.64000	35.96000

## [4045]	27.44000	19.43600	15.40000	18.40000	56.21000	19.80000
## [4051]	21.58000	21.15000	23.00000	18.40000	14.88300	9.12000
## [4057]	12.58000	11.60000	19.35000	5.10000	NA	NA
## [4063]	NA	NA	31.86000	24.00000	28.62000	23.03000
## [4069]	42.16000	13.86000	22.79500	16.38000	12.92000	13.68000
## [4075]	12.95000	15.58550	12.16000	11.10000	18.86000	23.52000
## [4081]	17.70000	33.48000	22.40000	25.50000	15.05000	9.60000
## [4087]	14.96000	14.35000	22.09000	3.23000	0.63000	3.79500
## [4093]	1.21000	3.31500	2.55600	3.06000	NA	NA
## [4099]	NA	1.76400	1.32000	2.24000	2.89000	3.99000
## [4105]	1.28700	2.40000	2.24000	1.21000	2.24000	2.26920
## [4111]	2.10000	3.60000	4.00000	10.54000	3.89120	5.80000
## [4117]	5.25000	1.69000	8.68000	6.75000	8.25000	9.28000
## [4123]	10.24000	8.25000	4.55820	2.88000	2.85000	2.25000
## [4129]	4.40000	2.14200	3.20000	0.90000	0.16000	0.42000
## [4135]	0.60500	1.20000	0.70000	1.96000	1.82000	1.16100
## [4141]	0.56700	1.08000	NA	NA	7.45380	5.16000
## [4147]	9.52000	6.75000	9.30000	1.16920	0.90000	1.32000
## [4153]	NA	NA	0.69300	0.41310	1.10000	1.68000
## [4159]	2.10000	1.34400	0.95000	0.85500	NA	NA
## [4165]	1.97500	3.07880	1.20000	3.60000	3.60000	2.61950
## [4171]	3.69000	5.25000	2.72000	5.04000	0.48000	0.60000
## [4177]	0.72000	1.54000	2.55000	6.09000	7.54000	9.72000
## [4183]	0.72000	15.20000	0.32500	0.51000	0.45500	7.83000
## [4189]	1.05000	33.55000	26.50000	26.13000	2.46000	42.24000
## [4195]	12.92000	16.80000	13.30000	11.20000	48.28000	3.45000
## [4201]	3.99000	4.94000	7.50000	10.23000	11.00800	15.99000
## [4207]	13.30000	15.30000	26.00000	2.21000	2.24000	4.40000
## [4213]	10.54000	18.00000	22.32000	15.60000	17.10000	30.24000
## [4219]	34.80000	12.24000	12.60000	9.45000	23.00000	29.70000
## [4225]	8.84260	6.90000	11.18000	24.50000	23.04000	1.75000
## [4231]	1.82000	2.40000	4.18000	7.80000	31.52760	28.62000
## [4237]	31.90000	67.94000	74.80000	5.45200	5.72000	9.10000
## [4243]	19.74000	28.05000	56.39400	45.42500	54.78000	78.30000
## [4249]	86.52000	27.27200	39.00000	25.38000	40.02000	53.28000
## [4255]	22.37400	15.36000	16.80000	18.90000	20.64000	14.19600
## [4261]	12.54000	17.76000	30.21000	29.58000	13.44000	9.90000
## [4267]	16.72000	21.56000	19.36000	20.57000	11.55000	27.75000
## [4273]	20.24000	19.52000	7.00000	6.50000	8.10000	10.50000
## [4279]	22.08000	48.50800	26.23000	40.20000	40.20000	49.64000
## [4285]	21.93000	27.26000	17.20000	24.60000	41.60000	13.30250
## [4291]	11.20000	13.65000	21.60000	30.60000	3.62700	3.40000
## [4297]	2.43000	5.06000	6.21000	7.00700	10.56000	15.91000
## [4303]	24.91000	28.05000	2.45050	3.74000	5.72000	5.50000
## [4309]	5.06000	3.19300	4.62000	4.08000	5.60000	5.25000
## [4315]	3.17680	6.00000	5.75000	12.95000	9.30000	1.80250
## [4321]	4.56000	5.13000	10.44000	24.99000	3.26040	7.02000
## [4327]	8.67000	13.53000	23.50000	4.89300	5.52000	7.50000
## [4333]	21.56000	21.93000	2.10000	2.10000	2.70000	4.00000
## [4339]	9.00000	6.27750	6.09000	6.50000	8.10000	14.76000
## [4345]	2.24000	3.20000	3.04000	6.67000	12.96000	2.88750
## [4351]	4.20000	5.04000	8.99000	7.00000	3.90600	10.56000
## [4357]	8.12000	10.24000	11.89000	0.45500	0.48000	1.30000
## [4363]	3.20000	8.70000	5.80770	8.91000	8.68000	15.58000

## [4369]	10.23000	1.33400	1.50000	1.68000	1.92000	3.99000
## [4375]	1.15640	1.50000	1.20000	1.32000	8.37000	2.28000
## [4381]	0.88000	1.17000	5.50000	6.21000	0.60000	0.99000
## [4387]	0.70000	2.85000	5.52000	1.98750	1.80000	1.10000
## [4393]	1.30000	1.21000	22.70400	42.21000	42.56000	49.00000
## [4399]	63.99000	7.98660	32.76000	41.30000	45.50000	57.67000
## [4405]	12.59280	14.35000	11.28000	20.00000	27.00000	3.60000
## [4411]	2.94000	6.44000	10.20000	8.70000	23.00000	18.06000
## [4417]	8.96000	25.50000	NA	32.86000	20.25000	20.70000
## [4423]	26.50000	29.15000	7.67000	7.02000	6.75000	9.00000
## [4429]	6.75000	2.88000	8.32000	9.38400	7.68000	NA
## [4435]	6.48000	8.12000	12.21000	16.40000	27.50000	3.78000
## [4441]	4.40000	7.59000	5.52000	8.10000	4.56000	4.18000
## [4447]	6.72000	7.28000	8.96000	1.43000	2.24000	3.99000
## [4453]	2.70000	5.04000	3.50000	8.12000	20.91000	26.50000
## [4459]	15.84000	1.04500	3.04000	11.02000	33.00000	8.10000
## [4465]	6.24000	7.25000	18.04000	28.00000	33.92000	9.88000
## [4471]	15.21000	24.99000	33.00000	33.00000	13.94000	12.60000
## [4477]	21.62000	31.20000	54.51000	8.99000	5.98000	15.99000
## [4483]	22.95000	16.40000	8.32000	12.60000	24.01000	25.50000
## [4489]	28.42000	4.40000	4.40000	5.94000	16.80000	8.70000
## [4495]	2.64000	6.16000	10.23000	19.80000	21.50000	4.75000
## [4501]	2.88000	6.75000	14.80000	9.30000	7.08000	7.75000
## [4507]	16.38000	32.40000	34.20000	2.88000	8.68000	12.58000
## [4513]	16.80000	29.68000	1.80000	6.24000	5.88000	10.56000
## [4519]	11.88000	4.80000	6.38000	9.92000	13.86000	19.27000
## [4525]	6.44000	13.65000	7.83000	20.24000	15.19000	10.27000
## [4531]	20.21000	25.97000	51.75000	38.43000	1.43000	2.40000
## [4537]	2.94000	8.70000	NA	6.72000	7.28000	3.60000
## [4543]	10.80000	7.36000	2.00000	8.05000	7.02000	12.21000
## [4549]	7.13000	1.56000	3.40000	4.75000	6.50000	8.37000
## [4555]	4.41000	11.88000	16.40000	20.00000	20.58000	2.88000
## [4561]	5.75000	17.64000	11.10000	6.82000	0.12000	1.05000
## [4567]	0.88000	3.00000	3.06000	0.80000	0.56000	0.99000
## [4573]	3.00000	3.00000	1.14000	1.95000	2.55000	4.60000
## [4579]	4.35000	1.54000	1.87500	6.24000	6.24000	6.90000
## [4585]	4.32000	3.36000	6.48000	7.80000	4.20000	2.22000
## [4591]	4.20000	2.66000	3.80000	3.80000	2.24000	2.88000
## [4597]	1.95000	2.08000	2.28000	4.32000	7.28000	7.83000
## [4603]	7.50000	6.16000	7.67000	11.84000	NA	15.60000
## [4609]	12.16000	0.10000	1.05000	1.32000	3.40000	1.68000
## [4615]	7.00000	13.32000	20.64000	24.44000	27.50000	16.43000
## [4621]	19.50000	15.17000	56.00000	59.13000	2.55000	5.52000
## [4627]	11.90000	14.80000	19.32000	9.30000	10.80000	27.03000
## [4633]	25.65000	20.58000	2.85000	6.38000	14.72000	11.52000
## [4639]	8.70000	17.15000	24.64000	33.06000	46.20000	71.89000
## [4645]	17.63000	20.40000	23.97000	37.80000	43.55000	12.60000
## [4651]	14.43000	25.44000	75.00000	29.28000	8.70000	2.40500
## [4657]	3.78000	5.28000	8.70000	10.44000	35.79750	34.50000
## [4663]	73.87000	71.40000	8.68000	17.43000	17.60000	28.50000
## [4669]	49.41000	2.08000	5.99250	2.25000	9.90000	19.35000
## [4675]	7.02000	16.36250	19.50000	25.00000	44.22000	2.24000
## [4681]	7.42500	10.88000	14.96000	16.65000	6.44000	7.52000
## [4687]	9.10000	23.50000	14.76000	4.68000	6.18750	5.50000



## [4693]	9.00000	14.82000	2.24000	4.38750	6.32500	9.00000
## [4699]	12.24000	2.88000	2.01500	1.54000	4.60000	15.75000
## [4705]	9.24000	31.08000	49.30000	41.48000	50.37000	6.96000
## [4711]	14.80000	13.94000	15.54000	18.62000	10.15000	17.76000
## [4717]	32.86000	16.66000	33.66000	10.26000	27.82000	13.68000
## [4723]	NA	NA	15.48000	34.19250	21.00000	37.20000
## [4729]	45.14000	32.94000	30.24000	28.56000	45.50000	63.99000
## [4735]	8.84000	10.56000	10.26000	12.90000	31.35000	29.58000
## [4741]	24.00000	31.80000	34.80000	51.00000	23.00000	22.79500
## [4747]	18.90000	30.50000	46.15000	8.32000	16.42500	20.70000
## [4753]	21.00000	38.50000	1.80000	1.84000	1.32000	3.23000
## [4759]	7.83000	1.43000	1.78250	2.25000	NA	NA
## [4765]	3.80000	3.60000	4.32000	5.06000	6.20000	4.83000
## [4771]	7.52250	10.44000	13.80000	10.85000	6.09000	15.56250
## [4777]	23.52000	30.78000	24.96000	4.20000	6.41250	6.44000
## [4783]	9.90000	15.96000	2.70000	2.39250	2.88000	4.00000
## [4789]	2.85000	0.63000	1.02000	1.65000	8.68000	8.37000
## [4795]	4.20000	5.06000	6.75000	9.60000	12.24000	1.32000
## [4801]	1.62500	1.68000	NA	NA	5.04000	4.71500
## [4807]	4.73000	9.90000	11.55000	5.98000	8.26000	6.16000
## [4813]	14.80000	8.75000	0.72000	1.56000	0.96000	1.30000
## [4819]	0.45000	2.56000	4.62000	5.75000	8.58000	10.93500
## [4825]	8.70000	7.12500	10.88000	20.70000	17.22000	2.55000
## [4831]	3.78000	3.99000	8.70000	4.94000	8.68000	9.44000
## [4837]	8.32000	12.21000	14.80000	0.63000	1.43000	1.76000
## [4843]	4.60000	6.96000	0.32000	1.08000	2.34000	3.80000
## [4849]	5.13000	3.52000	5.00000	5.72000	9.60000	9.28000
## [4855]	6.16000	7.75000	8.64000	11.70000	12.54000	22.22000
## [4861]	39.65000	23.52000	61.50000	44.02000	37.40000	NA
## [4867]	26.68000	41.58000	NA	6.72000	7.54000	8.05000
## [4873]	9.00000	24.50000	2.72000	3.60000	5.06000	6.30000
## [4879]	11.16000	8.96000	7.02000	12.87000	11.70000	19.89000
## [4885]	3.57000	4.20000	NA	1.40000	1.65000	5.98000
## [4891]	5.06000	6.67000	9.90000	14.43000	7.00000	7.54000
## [4897]	6.20000	9.60000	1.56000	9.57000	13.65000	12.92000
## [4903]	15.20000	18.45000	3.40000	6.00000	9.80000	10.23000
## [4909]	4.60000	4.62500	3.96000	8.37000	20.58000	33.28000
## [4915]	6.20000	2.16000	9.52000	11.70000	14.35000	5.75000
## [4921]	5.28000	8.10000	9.30000	13.32000	7.92000	10.44000
## [4927]	13.64000	18.04000	NA	10.85000	16.40000	NA
## [4933]	NA	NA	0.72000	0.72000	1.76000	3.40000
## [4939]	8.00000	1.56000	0.96000	1.50000	1.70000	0.99000
## [4945]	5.06000	5.98000	7.54000	9.30000	9.36000	5.25000
## [4951]	11.84000	17.10000	NA	NA	6.27000	10.88000
## [4957]	13.44000	3.80000	5.20000	4.18000	4.80000	4.30500
## [4963]	4.08000	6.60000	18.88000	10.56000	16.34000	20.00000
## [4969]	27.54000	8.64000	17.20000	15.58000	12.90000	38.43000
## [4975]	4.40000	3.06000	5.06000	4.68000	4.62000	2.24000
## [4981]	3.21750	1.98000	2.08000	3.42000	6.27000	5.48250
## [4987]	3.74000	15.20000	4.20000	1.40000	1.50000	2.99000
## [4993]	2.72000	3.06000	0.80000	1.56000	1.20750	NA
## [4999]	NA	2.94000	4.40750	6.50000	21.60000	12.09000
## [5005]	3.52000	2.32000	2.40000	6.76000	3.99000	2.88000
## [5011]	4.92000	1.56000	3.57000	3.61000	1.99500	4.23000

## [5017]	1.54000	2.55000	0.88000	2.03000	2.73000	1.54000
## [5023]	4.20000	3.99000	1.68000	2.55000	2.24000	NA
## [5029]	NA	1.56000	1.87500	1.56000	2.97500	4.37000
## [5035]	1.44000	2.64000	2.08000	8.14350	8.06000	3.42000
## [5041]	4.37000	9.62000	13.32000	11.88000	3.00000	3.36000
## [5047]	2.85000	4.83000	2.21000	1.80000	2.04000	2.52000
## [5053]	3.04000	2.40000	0.90000	0.80750	1.10000	3.02600
## [5059]	2.66000	0.49000	0.21700	0.08000	0.45500	1.21000
## [5065]	2.70000	1.92000	1.95000	2.17500	2.21000	4.92000
## [5071]	4.40000	8.06000	12.95000	9.60000	3.23000	2.80000
## [5077]	6.24000	6.16000	9.50000	8.12000	15.04000	14.04000
## [5083]	23.65000	17.63000	11.52000	9.30000	18.48000	16.80000
## [5089]	18.92000	5.88000	16.41900	15.99000	18.72000	27.26000
## [5095]	9.60000	13.26000	15.60000	10.20000	24.48000	2.10000
## [5101]	1.95000	1.33000	2.88000	7.28000	2.88000	4.18000
## [5107]	5.28000	8.40000	20.58000	1.82000	2.03000	2.40000
## [5113]	5.80000	8.70000	2.10000	4.25000	12.58000	8.70000
## [5119]	14.35000	14.04000	18.92000	28.56000	20.40000	25.97000
## [5125]	2.70000	2.40000	4.37000	5.06000	5.50000	10.23000
## [5131]	11.90000	15.20000	8.96000	15.99000	3.06000	3.33000
## [5137]	5.75000	5.06000	5.98000	5.58000	8.00000	7.75000
## [5143]	6.72000	9.43000	18.48000	21.84000	30.78000	18.40000
## [5149]	32.48000	31.90000	24.99000	47.57000	43.55000	35.38000
## [5155]	9.25000	15.12000	16.80000	34.20000	24.48000	30.09000
## [5161]	40.95000	18.00000	11.75000	38.86000	4.56000	5.06000
## [5167]	6.96000	7.50000	17.22000	1.81250	2.66000	4.32000
## [5173]	5.75000	11.20000	8.37000	9.80000	14.76000	9.18000
## [5179]	22.36000	12.95000	12.60000	23.92000	21.93000	65.12000
## [5185]	15.48000	14.40000	22.54000	21.60000	24.50000	24.94000
## [5191]	22.56000	14.76000	25.08000	23.03000	3.80000	4.14000
## [5197]	7.50000	5.28000	6.16000	4.32000	3.80000	7.20000
## [5203]	5.25000	6.96000	2.40000	2.72000	6.24000	5.50000
## [5209]	9.61000	1.60000	5.06000	2.34000	2.55000	3.80000
## [5215]	4.60000	5.46000	6.90000	12.96000	16.34000	4.83000
## [5221]	1.43000	2.52000	4.40000	NA	5.60000	8.96000
## [5227]	12.21000	2.60000	4.83000	1.56000	1.26000	1.02000
## [5233]	3.20000	5.04000	0.67500	0.60000	1.32000	8.80000
## [5239]	NA	2.94000	2.25000	2.42000	2.72000	4.37000
## [5245]	0.88000	0.88000	1.56000	3.42000	10.15000	3.23000
## [5251]	2.40000	1.69000	NA	NA	5.46000	6.00000
## [5257]	8.99000	7.02000	10.23000	3.06000	3.40000	3.57000
## [5263]	1.65000	5.72000	2.89000	3.32500	2.08000	3.99000
## [5269]	5.72000	3.15000	3.00000	3.74000	5.50000	7.28000
## [5275]	0.99000	1.30000	1.30000	2.62500	5.50000	0.88000
## [5281]	1.30000	1.95000	2.61000	3.96000	0.56000	1.20000
## [5287]	0.99000	2.10000	3.36000	2.70000	3.00000	1.95000
## [5293]	2.24000	4.60000	53.82000	37.50000	34.77000	9.90000
## [5299]	51.87000	21.12000	23.50000	35.34000	12.87000	27.56000
## [5305]	59.16000	NA	NA	NA	4.62000	6.00000
## [5311]	6.50000	1.87000	7.65600	15.60000	18.04000	15.40500
## [5317]	19.80000	32.49000	13.68000	20.70000	31.90000	22.56000
## [5323]	29.58000	9.76000	15.17000	15.20000	23.50000	23.32000
## [5329]	12.24000	22.09000	20.58000	30.24000	34.45000	NA
## [5335]	22.00000	36.60000	33.00000	46.20000	31.90000	24.18000

## [5341]	50.82600	34.16000	57.80000	12.24000	13.12000	14.62500
## [5347]	20.68000	30.68000	28.91000	20.68000	32.94000	44.85000
## [5353]	48.30000	9.30000	19.20000	27.93000	26.22000	36.58000
## [5359]	11.90000	18.72000	33.04000	29.58000	50.16000	5.50000
## [5365]	10.40000	14.08000	16.17000	27.00000	1.95000	2.80500
## [5371]	6.50000	7.50000	8.40000	5.98000	8.10000	12.60000
## [5377]	16.34000	18.24000	7.28000	11.05500	14.85000	24.30000
## [5383]	40.92000	20.70000	21.84000	19.98000	21.00000	48.96000
## [5389]	7.56000	11.70000	10.88000	19.35000	24.73500	6.96000
## [5395]	9.24000	3.91000	13.60000	13.53000	8.06000	14.04000
## [5401]	14.26000	22.14000	27.26000	3.04000	8.52500	7.75000
## [5407]	9.90000	15.12000	2.47000	1.32000	12.96000	5.94000
## [5413]	15.99000	1.40000	2.72000	0.99000	1.10000	0.98000
## [5419]	0.45000	2.10000	1.82000	1.10000	1.16600	2.10000
## [5425]	1.62000	3.64000	9.86000	5.06000	1.44000	1.80000
## [5431]	7.83000	10.20000	14.62000	1.76000	2.88000	4.94000
## [5437]	5.00000	8.91000	2.10000	5.00000	5.40000	6.72000
## [5443]	14.35000	0.37500	3.00000	1.95000	5.52000	5.75000
## [5449]	1.17000	1.29600	3.40000	8.32000	10.15000	2.40000
## [5455]	5.00000	8.58000	12.21000	12.60000	6.72000	5.72000
## [5461]	3.90000	10.23000	12.09000	8.32000	12.24000	11.22000
## [5467]	6.75000	12.87000	2.52000	1.43000	1.40000	2.24000
## [5473]	4.56000	13.30000	13.68000	14.62000	16.38000	25.50000
## [5479]	16.81000	19.35000	23.00000	30.24000	58.50400	9.45000
## [5485]	11.84000	16.80000	14.06000	21.70000	11.89000	17.63000
## [5491]	23.40000	23.85000	32.50000	16.40000	15.12000	18.06000
## [5497]	22.36000	31.20000	19.35000	23.03000	23.76000	31.00000
## [5503]	27.73000	6.38000	10.54000	15.58000	14.04000	20.90000
## [5509]	4.40000	3.40000	4.83000	4.83000	7.00000	1.95000
## [5515]	2.72000	5.28000	8.10000	19.11000	2.52000	3.40000
## [5521]	5.06000	3.74000	5.98000	6.96000	7.15000	10.88000
## [5527]	12.80000	30.78000	9.24000	6.24000	13.20000	10.56000
## [5533]	12.24000	12.25000	20.91000	33.00000	30.50000	24.96000
## [5539]	7.54000	9.99000	18.00000	7.00000	26.32000	0.90000
## [5545]	0.67500	1.95000	1.60000	5.46000	2.40000	2.03000
## [5551]	5.00000	3.60000	7.28000	1.65000	1.38000	4.20000
## [5557]	3.91000	10.01000	7.65000	27.29500	40.88000	34.16000
## [5563]	44.88000	15.20000	22.55000	34.77000	17.20000	43.07000
## [5569]	31.27000	26.52000	44.22000	42.09000	60.80000	3.45000
## [5575]	5.88000	8.10000	7.84000	9.60000	5.67000	NA
## [5581]	NA	NA	5.67000	5.94000	1.82000	6.44000
## [5587]	6.00000	9.88000	4.00000	2.24000	1.43000	4.83000
## [5593]	9.45000	2.08000	1.35000	1.68750	1.30000	2.52000
## [5599]	8.99000	11.31000	15.84000	37.82000	30.21000	2.24000
## [5605]	1.82000	6.24000	7.54000	5.13000	0.63000	1.32000
## [5611]	0.30000	2.55000	1.68000	0.40000	0.38500	0.90000
## [5617]	1.82000	1.56000	2.88000	2.52000	4.62000	5.06000
## [5623]	11.16000	2.55000	1.74000	2.24000	3.23000	6.25000
## [5629]	8.96000	10.56000	8.70000	8.99000	9.40000	1.80000
## [5635]	1.32000	1.56000	2.97500	5.50000	3.42000	6.00000
## [5641]	4.20000	3.14500	7.54000	4.20000	5.52000	5.04000
## [5647]	3.20000	8.96000	3.96000	6.50000	2.24000	4.20000
## [5653]	7.50000	1.32000	1.21000	2.38000	3.06000	5.94000
## [5659]	2.72000	3.42000	4.20000	3.24000	5.75000	2.24000

## [5665]	3.00000	5.72000	4.08000	7.13000	1.80000	1.32000
## [5671]	2.24000	4.20000	4.59000	3.15000	5.52000	8.28000
## [5677]	4.80000	4.42000	6.24000	8.40000	13.65000	10.12500
## [5683]	16.80000	11.88000	25.92000	22.95000	16.34000	19.74000
## [5689]	23.50000	18.48000	20.91000	22.62000	31.85000	15.99000
## [5695]	13.20000	19.68000	20.90000	30.74000	13.65000	11.88000
## [5701]	22.56000	17.22000	27.00000	17.55000	21.62000	26.88000
## [5707]	31.86000	27.56000	11.56000	15.30000	21.56000	11.16000
## [5713]	14.96000	18.06000	27.00000	36.60000	26.88000	43.92000
## [5719]	23.85000	22.88000	29.76000	30.09000	45.54000	18.80000
## [5725]	21.12000	24.48000	23.00000	52.54000	19.78000	23.50000
## [5731]	25.50000	15.05000	NA	8.85000	9.30000	15.58000
## [5737]	11.90000	5.72000	4.23000	3.36000	3.06000	3.48500
## [5743]	4.62000	2.31000	2.10000	4.32000	2.21000	20.24000
## [5749]	15.20000	13.30000	31.68000	16.80000	22.54000	4.56000
## [5755]	14.43000	14.52000	14.82000	18.72000	2.47500	2.28000
## [5761]	1.43000	1.92000	3.60000	11.31000	12.24000	4.56000
## [5767]	9.52000	11.88000	8.10000	10.88000	11.22000	10.40000
## [5773]	22.05000	6.75000	11.76000	15.12000	19.27000	22.36000
## [5779]	1.17000	1.82000	2.52000	2.40000	1.56000	0.59500
## [5785]	0.95200	0.99000	1.43000	0.56000	1.08500	8.20000
## [5791]	2.10000	3.25000	2.40000	4.66200	3.23000	3.99000
## [5797]	3.14500	3.99000	0.76500	0.99750	1.21000	0.88000
## [5803]	0.63000	1.65750	0.99750	0.58500	0.90000	0.45000
## [5809]	2.70000	4.01400	2.86000	4.20000	3.20000	0.52500
## [5815]	0.42000	0.80000	0.59500	0.45000	1.43000	0.97750
## [5821]	1.71000	0.67500	0.40000	1.26500	1.14000	1.56000
## [5827]	1.38000	1.76000	6.50000	7.28000	6.90000	9.90000
## [5833]	8.40000	2.40000	1.32000	2.86000	4.20000	3.57000
## [5839]	1.20000	0.67500	0.88000	1.56000	1.65000	1.75000
## [5845]	1.40000	1.80000	5.63500	7.80000	1.15500	0.99000
## [5851]	0.90000	2.55000	3.80000	5.51000	5.29000	2.73000
## [5857]	10.89000	8.58000	5.64000	6.75000	6.40000	9.90000
## [5863]	1.56000	1.57500	2.55000	1.43000	0.99000	11.52000
## [5869]	0.72000	0.60500	0.96000	0.90000	2.73000	13.26000
## [5875]	23.50000	28.32000	35.84000	61.50000	13.20000	15.98000
## [5881]	29.15000	27.00000	38.35000	5.72000	9.60000	17.63000
## [5887]	19.08000	38.43000	38.34000	51.06000	70.47000	63.14000
## [5893]	73.08000	76.44000	72.68000	55.30000	70.55000	69.66000
## [5899]	6.02000	19.74000	31.27000	34.72000	47.45000	13.68000
## [5905]	8.75000	8.64000	12.60000	24.36000	23.85000	28.56000
## [5911]	34.65000	60.06000	69.70000	6.48000	8.10000	8.99000
## [5917]	12.54000	30.68000	3.90000	5.46000	9.92000	14.40000
## [5923]	18.62000	13.68000	17.48000	22.50000	24.20000	60.00000
## [5929]	32.34000	35.20000	66.42000	17.60000	50.76000	1.44000
## [5935]	2.72000	3.80000	8.10000	23.52000	17.22000	33.00000
## [5941]	44.20000	46.90000	52.02600	10.85000	14.76000	29.07000
## [5947]	37.12000	41.18000	2.24000	3.80000	5.04000	78.02000
## [5953]	63.96000	12.95000	8.00000	15.96000	28.60000	53.90000
## [5959]	5.04000	9.28000	18.45000	18.90000	29.15000	6.21000
## [5965]	13.68000	12.58000	15.12000	19.78000	1.54000	4.72500
## [5971]	8.70000	6.24000	12.00000	10.80000	19.35000	25.42000
## [5977]	37.12000	34.20000	1.21000	5.00000	6.67000	7.02000
## [5983]	17.22000	1.56000	4.18000	2.88000	4.40000	7.28000

## [5989]	0.63000	0.80000	1.68000	4.18000	13.94000	3.51500
## [5995]	6.12000	9.24000	10.65000	11.04000	0.91000	3.51000
## [6001]	3.36000	4.32000	14.70000	1.05000	4.62000	2.24000
## [6007]	10.15000	16.38000	2.10000	6.67000	4.32000	9.86000
## [6013]	12.87000	0.80000	2.40000	1.68000	6.50000	11.52040
## [6019]	3.60000	6.16000	5.04000	7.74000	15.12000	7.56000
## [6025]	8.68000	11.47000	9.30000	14.76000	3.23000	3.00000
## [6031]	5.28000	4.62000	9.92000	1.25000	0.45500	1.32000
## [6037]	1.10000	6.00000	3.04000	3.85000	4.83000	4.95000
## [6043]	13.39400	1.95000	2.47500	2.24000	5.00000	9.92000
## [6049]	6.00000	5.75000	12.09000	18.48000	29.58000	2.24000
## [6055]	3.80000	2.34000	9.30000	11.76000	1.95000	5.25000
## [6061]	3.06000	4.41000	4.50000	6.60000	31.95800	23.50000
## [6067]	33.60000	41.28240	26.00000	12.54000	46.15000	51.10000
## [6073]	38.40000	31.90000	28.35000	40.87000	64.61000	60.04000
## [6079]	9.45000	12.48000	24.48000	28.05000	21.00000	21.15000
## [6085]	36.60000	52.14000	40.26000	46.16300	11.31000	13.30000
## [6091]	22.50000	23.32000	24.48000	15.17000	13.30000	21.07000
## [6097]	26.00000	25.16150	24.01000	38.34000	37.17000	53.25000
## [6103]	30.29400	14.06000	12.95000	17.22000	25.00000	24.75000
## [6109]	7.56000	5.72000	8.12000	11.84000	14.26800	14.76000
## [6115]	13.94000	13.60000	27.00000	24.84000	5.32000	6.75000
## [6121]	11.56000	27.54000	16.34000	2.10000	1.89000	2.24000
## [6127]	3.04000	1.90000	2.55000	1.62500	2.24000	2.21000
## [6133]	5.16000	5.10000	6.38000	5.50000	5.72000	12.24000
## [6139]	1.56000	3.23000	2.72000	6.00000	5.72280	2.38000
## [6145]	1.56000	1.92000	NA	NA	0.82500	0.52500
## [6151]	0.70000	0.54000	0.50000	2.31000	0.27500	0.56000
## [6157]	0.30000	1.06200	2.34000	1.17000	1.44000	4.48000
## [6163]	4.60000	3.04500	1.20000	1.90000	0.63000	0.60000
## [6169]	2.10000	1.68000	1.68000	1.10000	1.56000	1.17000
## [6175]	0.63000	0.49000	NA	NA	8.64000	7.28000
## [6181]	9.90000	10.20000	8.37000	2.88000	1.95000	2.89000
## [6187]	5.75000	6.05800	1.56000	1.95000	1.65000	2.10000
## [6193]	2.66900	6.24000	5.04000	4.83000	7.25000	7.90020
## [6199]	3.42000	3.78000	3.62000	2.89000	4.83960	1.82000
## [6205]	2.55000	2.52000	4.62000	3.44270	3.80000	3.06000
## [6211]	3.60000	NA	NA	1.50000	2.24000	1.20000
## [6217]	2.21000	3.12960	1.68000	1.56000	1.82000	1.10000
## [6223]	3.56700	3.78000	2.88000	8.84000	6.50000	8.99000
## [6229]	11.55000	22.95000	23.32000	12.92000	22.44000	18.13000
## [6235]	28.05000	28.20000	28.05000	27.44000	8.58000	15.54000
## [6241]	15.20000	13.60000	19.60000	16.10000	8.64000	11.60000
## [6247]	NA	NA	16.20000	26.95000	31.90000	20.25000
## [6253]	43.55000	15.60000	24.20000	15.60000	19.78000	24.91000
## [6259]	8.99000	9.97500	14.52000	16.00000	12.73000	10.54000
## [6265]	6.84000	12.87000	8.06000	9.60000	6.75000	8.70000
## [6271]	9.30000	7.20000	9.61000	0.72000	NA	NA
## [6277]	6.24000	12.96000	3.52000	6.16000	10.85000	5.52000
## [6283]	5.25000	8.28000	7.15500	4.62000	11.10000	14.35000
## [6289]	7.56000	3.78000	7.56000	20.00000	14.82000	3.36000
## [6295]	6.24000	9.86000	16.10000	18.87000	7.41000	8.64000
## [6301]	15.05000	25.52000	27.84000	13.30000	7.20000	11.88000
## [6307]	33.06000	18.45000	3.06000	2.55000	3.40000	9.02000

## [6313]	12.16000	8.10000	8.10000	13.53000	7.00000	7.56000
## [6319]	3.40000	3.40000	3.80000	3.20000	4.92000	2.52000
## [6325]	3.04000	4.18000	4.08000	7.83000	7.75000	7.92000
## [6331]	11.16000	16.72000	3.99000	3.99000	7.44000	8.84000
## [6337]	21.15000	10.80000	0.63000	1.32000	1.62000	2.24000
## [6343]	12.58000	0.33000	1.65000	1.98000	5.70000	2.70000
## [6349]	2.40000	2.68000	1.95000	1.92000	3.60000	1.20000
## [6355]	31.72000	55.50000	1.10000	1.90000	28.05000	28.09000
## [6361]	29.89000	38.50000	39.65000	6.48000	7.68000	12.16000
## [6367]	12.30000	11.90000	9.61000	NA	NA	NA
## [6373]	NA	3.30000	3.45000	5.00000	9.00000	7.36000
## [6379]	2.40000	1.92000	3.59100	9.60000	7.82000	3.80000
## [6385]	9.28000	5.06000	11.40000	15.21000	12.09000	3.22400
## [6391]	NA	NA	NA	5.46000	4.90000	1.36500
## [6397]	4.14000	4.00000	17.64000	9.18000	8.72040	NA
## [6403]	NA	3.00000	1.60000	1.78200	2.40000	1.30000
## [6409]	0.90000	1.05000	0.52500	1.32000	0.45500	1.68000
## [6415]	3.36000	3.91000	1.43000	1.96000	3.06000	7.02000
## [6421]	6.00000	4.40000	4.18000	4.40000	6.48000	4.72500
## [6427]	8.12000	3.80000	4.94000	4.34000	3.70925	3.40000
## [6433]	5.46000	3.04000	3.23000	2.83050	2.52000	1.82000
## [6439]	1.32000	3.40000	2.94500	NA	NA	3.74000
## [6445]	5.06000	3.48500	4.40000	5.88000	3.06000	7.80000
## [6451]	4.37000	4.68000	4.84000	2.10000	4.62000	5.04000
## [6457]	17.20000	14.40000	5.20000	4.80000	5.06000	12.58000
## [6463]	4.42000	2.32000	3.20000	2.92400	7.80000	2.60000
## [6469]	2.88000	6.48000	6.19500	8.10000	6.24000	1.95000
## [6475]	3.00000	2.72000	5.40000	5.52000	2.10000	2.80000
## [6481]	3.60000	6.21000	5.46000	1.26000	0.90000	1.10000
## [6487]	1.96000	1.44000	4.20000	4.41000	8.12000	9.28000
## [6493]	NA	11.78000	8.99000	11.88000	14.00000	6.21000
## [6499]	5.25000	7.00000	7.20000	9.92000	13.30000	16.77000
## [6505]	16.38000	18.72000	19.20000	19.80000	14.80000	19.35000
## [6511]	24.00000	5.88000	29.68000	18.92000	27.44000	44.20000
## [6517]	28.62000	40.95000	39.04000	58.08000	73.32000	59.63000
## [6523]	72.80000	31.90000	56.24000	60.68000	73.80000	66.36000
## [6529]	22.95000	22.54000	26.32000	25.00000	34.16000	21.32000
## [6535]	18.50000	24.50000	20.28000	33.55000	9.52000	16.38000
## [6541]	15.64000	12.15000	21.20000	14.96000	8.75000	11.84000
## [6547]	18.24000	31.20000	27.36000	26.32000	40.87000	37.76000
## [6553]	32.24000	2.66000	7.02000	11.22000	8.10000	15.20000
## [6559]	18.00000	27.60000	22.05000	22.54000	28.42000	25.85000
## [6565]	28.80000	31.80000	39.06000	31.28000	7.02000	9.24000
## [6571]	5.52000	9.80000	12.58000	3.84000	2.88000	8.32000
## [6577]	6.44000	6.76000	0.88000	0.76500	1.68000	NA
## [6583]	NA	2.88000	2.38000	2.52000	2.85000	5.06000
## [6589]	1.32000	4.18000	3.04000	6.21000	5.60000	1.49500
## [6595]	1.32000	1.32000	1.43000	2.40000	1.95000	2.72000
## [6601]	3.06000	3.80000	5.75000	2.73000	0.72000	2.34000
## [6607]	NA	NA	1.50000	1.92000	1.82000	3.42000
## [6613]	2.89000	1.30000	1.56000	4.80000	1.00000	3.45000
## [6619]	1.65000	1.17000	2.24000	1.10000	3.60000	2.40000
## [6625]	1.56000	0.90000	1.70000	3.60000	1.95000	2.10000
## [6631]	2.70000	3.23000	4.41000	3.12000	6.00000	5.06000

## [6637]	4.00000	7.56000	1.63800	3.06000	1.56000	1.82000
## [6643]	NA	6.00000	5.14500	4.18000	NA	NA
## [6649]	2.01500	4.14000	3.06000	5.00000	4.20000	1.48500
## [6655]	1.68000	1.43000	2.21000	3.60000	1.74000	1.56000
## [6661]	1.68000	NA	NA	4.71750	5.50000	1.54000
## [6667]	NA	NA	3.70500	2.80000	1.56000	1.65000
## [6673]	2.04000	0.46500	0.45500	0.30000	NA	NA
## [6679]	13.20000	21.07000	18.90000	35.84000	30.24000	16.40000
## [6685]	15.17000	17.39000	31.00000	25.50000	5.50000	6.48000
## [6691]	3.99000	4.60000	7.25000	15.84000	19.11000	19.20000
## [6697]	27.50000	37.80000	8.12000	4.40000	5.25000	9.00000
## [6703]	8.70000	22.05000	21.07000	30.80000	44.53000	45.44000
## [6709]	17.48000	16.38000	18.00000	25.00000	16.40000	12.24000
## [6715]	15.40500	15.96000	22.50000	22.95000	3.96000	7.02000
## [6721]	5.94000	9.57000	8.10000	15.12000	14.04000	24.44000
## [6727]	18.72000	16.20000	8.99000	9.90000	11.20000	14.40000
## [6733]	19.80000	6.50000	9.61000	13.32000	8.32000	16.00000
## [6739]	8.68000	8.55000	14.80000	17.20000	10.56000	20.40000
## [6745]	19.78000	20.16000	25.00000	20.24000	8.40000	20.25000
## [6751]	35.10000	32.40000	39.00000	1.65000	6.35500	5.65500
## [6757]	45.36000	6.25000	9.80000	14.04000	25.30000	37.80000
## [6763]	30.60000	9.44000	10.20000	19.38000	23.50000	23.50000
## [6769]	16.92000	11.90000	18.24000	16.40000	25.44000	16.38000
## [6775]	26.00000	31.86000	30.00000	32.48000	5.10000	3.28000
## [6781]	5.50000	6.67000	11.88000	2.48000	1.43750	4.80000
## [6787]	12.24000	9.28000	3.15000	2.73000	4.20000	7.80000
## [6793]	5.46000	0.88000	1.92000	2.10000	5.50000	7.15500
## [6799]	0.84000	1.32000	2.38000	6.44000	5.06000	8.37000
## [6805]	9.30000	14.80000	31.36000	26.55000	2.28000	3.15000
## [6811]	5.00000	9.30000	10.64000	1.26000	1.43000	2.70000
## [6817]	7.50000	4.42000	0.63000	1.30000	1.68000	4.60000
## [6823]	10.80000	0.71250	3.78000	4.18000	13.65000	4.37000
## [6829]	3.50000	5.52000	8.37000	7.83000	8.25000	15.20000
## [6835]	8.64000	13.31250	12.60000	13.20000	3.23000	5.28000
## [6841]	7.54000	6.90000	4.40000	5.28000	4.62000	4.20000
## [6847]	6.96000	4.56000	6.16000	5.50000	5.50000	16.80000
## [6853]	7.44000	0.81000	1.10000	1.80000	3.80000	1.43000
## [6859]	8.50000	7.00000	7.80000	12.80000	10.88000	10.08000
## [6865]	7.84000	7.70000	9.60000	7.50000	4.80000	5.16000
## [6871]	5.75000	6.24000	7.54000	0.72000	1.33000	1.70000
## [6877]	3.20000	5.28000	23.00000	25.30800	24.80000	37.80000
## [6883]	37.20000	12.95000	8.96000	11.47000	16.77000	9.92000
## [6889]	13.32000	23.97000	28.80000	52.20000	23.97000	10.36000
## [6895]	15.54000	17.48000	23.97000	41.58000	61.50000	56.09000
## [6901]	79.17000	10.36000	13.60000	14.04000	15.91000	18.04000
## [6907]	16.40000	14.00000	18.86000	24.50000	16.32000	15.30000
## [6913]	22.05000	23.52000	25.65000	10.92000	12.60000	18.45000
## [6919]	21.32000	1.32000	5.53500	4.83000	5.29000	8.06000
## [6925]	7.02000	9.28000	10.56000	16.77000	12.16000	5.00000
## [6931]	5.10600	7.28000	5.00000	8.68000	7.02000	7.42500
## [6937]	7.02000	9.57000	9.80000	7.80000	6.50000	13.26000
## [6943]	15.64000	12.95000	12.95000	15.58000	14.40000	27.26000
## [6949]	28.80000	32.13000	34.72000	35.38000	24.96000	24.08000
## [6955]	30.87000	30.24000	14.35000	16.80000	20.21000	21.62000

## [6961]	7.80000	12.60000	17.63000	17.60000	15.60000	27.56000
## [6967]	21.46000	50.32000	51.03000	8.12000	12.58000	10.24000
## [6973]	20.50000	6.63000	4.20000	6.50000	11.55000	5.88000
## [6979]	7.56000	10.50000	11.56000	0.72000	1.56000	2.70000
## [6985]	NA	1.23500	1.56000	11.90000	NA	3.80000
## [6991]	1.03500	8.99000	NA	2.40000	1.32000	3.78000
## [6997]	4.40000	0.42000	1.18750	9.60000	22.08000	1.95000
## [7003]	0.32500	8.25000	1.10000	2.09000	3.15000	2.43000
## [7009]	4.32000	2.60000	1.87500	6.00000	6.96000	0.82500
## [7015]	0.72000	5.52000	1.80000	0.85500	1.08000	1.56000
## [7021]	4.60000	4.30500	4.40000	5.04000	6.75000	8.06000
## [7027]	2.72000	2.62500	3.04000	4.41000	4.37000	8.10000
## [7033]	2.97000	0.45000	14.70000	6.93000	0.88000	2.10000
## [7039]	2.10000	2.10000	4.64000	1.56000	1.30000	2.25000
## [7045]	NA	NA	3.06000	2.16000	4.20000	3.60000
## [7051]	4.83000	0.72000	3.23000	0.90000	0.25000	0.24000
## [7057]	4.60000	3.80000	3.00000	3.57000	3.57000	3.61000
## [7063]	7.29000	6.25000	7.13000	5.29000	3.80000	2.72000
## [7069]	3.00000	1.96000	4.41000	14.06000	16.00000	25.50000
## [7075]	27.00000	28.05000	3.23000	3.23000	6.75000	10.44000
## [7081]	8.84000	3.30000	3.78000	5.04000	4.20000	5.50000
## [7087]	21.93000	24.48000	31.90000	28.60000	20.24000	33.04000
## [7093]	28.56000	41.54000	38.28000	28.50000	16.17000	8.64000
## [7099]	18.06000	21.78000	21.56000	5.40000	5.72000	6.00000
## [7105]	6.00000	4.56000	17.55000	19.80000	25.97000	22.88000
## [7111]	14.76000	14.40000	11.16000	19.80000	19.20000	20.24000
## [7117]	14.04000	12.21000	NA	21.12000	24.50000	5.94000
## [7123]	5.32000	6.96000	NA	NA	16.56000	16.78900
## [7129]	21.62000	21.50000	18.00000	19.50000	40.56000	29.58000
## [7135]	21.93000	27.50000	8.10000	24.42000	12.09000	14.00000
## [7141]	11.88000	5.04000	6.75000	6.16000	8.70000	6.76000
## [7147]	8.68000	10.88000	14.28000	19.78000	16.40000	3.80000
## [7153]	7.54000	10.08000	14.70000	22.50000	6.75000	7.83000
## [7159]	7.54000	7.20000	5.29000	24.36000	20.80000	33.00000
## [7165]	35.64000	33.63000	8.23500	14.63000	16.40000	20.64000
## [7171]	30.60000	1.44000	1.56000	1.20000	0.72000	0.48000
## [7177]	0.63000	1.82000	0.56000	1.56000	1.17000	4.83000
## [7183]	1.62500	3.60000	6.21000	1.43000	3.89500	1.56000
## [7189]	2.21000	2.89000	1.68000	3.23000	0.56000	1.12500
## [7195]	1.43000	0.40000	1.82000	1.72500	1.56000	1.56000
## [7201]	1.10000	4.93500	3.80000	5.28000	3.42000	6.24000
## [7207]	0.31500	0.39000	0.35750	0.54000	1.21000	1.80000
## [7213]	0.28750	1.15500	NA	NA	1.56000	4.93500
## [7219]	1.82000	4.20000	0.77000	1.68000	0.95000	1.32000
## [7225]	3.20000	NA	1.80000	0.68000	6.50000	5.52000
## [7231]	7.00000	4.62000	1.56000	1.54000	2.60000	2.60000
## [7237]	2.38000	2.10000	7.36000	3.60000	3.99000	0.72000
## [7243]	0.18000	2.72000	5.98000	12.48000	0.80000	0.22500
## [7249]	NA	0.90000	2.52000	2.59000	3.15000	3.57000
## [7255]	4.68000	3.00000	4.27500	5.04000	5.04000	5.52000
## [7261]	2.88000	4.80000	5.28000	3.80000	6.50000	4.20000
## [7267]	1.56000	0.59500	NA	6.51000	5.00000	18.50000
## [7273]	19.80000	23.00000	36.60000	31.92000	14.06000	17.02000
## [7279]	18.48000	18.72000	27.44000	19.74000	20.80000	34.30000



## [7285]	28.00000	28.56000	14.19000	21.60000	21.42000	31.62000
## [7291]	41.58000	11.90000	12.54000	13.44000	19.68000	14.80000
## [7297]	15.96000	18.04000	23.50000	10.54000	24.99000	8.00000
## [7303]	10.88000	18.13000	14.40000	9.92000	6.40000	4.20000
## [7309]	5.29000	22.08000	23.10000	10.23000	12.92000	23.00000
## [7315]	16.40000	24.20000	13.94000	12.21000	13.30000	20.21000
## [7321]	20.58000	22.08000	24.44000	25.50000	35.51000	38.43000
## [7327]	26.00000	14.06000	12.88000	23.10000	26.88000	19.00000
## [7333]	14.06000	26.79000	12.90000	17.22000	8.00000	4.50000
## [7339]	8.91000	11.88000	11.55000	18.40000	22.05000	31.20000
## [7345]	26.50000	23.76000	6.00000	6.72000	12.60000	17.10000
## [7351]	19.32000	19.80000	24.00000	30.68000	23.00000	33.60000
## [7357]	17.22000	20.14000	28.02500	36.60000	42.88000	25.97000
## [7363]	25.37000	28.32000	29.68000	27.56000	10.56000	6.75000
## [7369]	9.80000	20.58000	27.00000	2.52000	10.08000	19.78000
## [7375]	18.06000	21.32000	1.35000	0.88000	2.38000	1.50000
## [7381]	2.08000	1.82000	2.55000	3.15000	4.83000	4.40000
## [7387]	6.24000	18.00000	11.34000	21.50000	16.77000	8.64000
## [7393]	10.54000	11.48000	27.50000	28.32000	0.63000	4.10000
## [7399]	1.25000	1.82000	1.56000	3.80000	7.00000	4.32000
## [7405]	6.25000	1.68000	2.94000	2.31000	4.50000	7.50000
## [7411]	15.17000	0.96000	1.10500	1.08000	NA	NA
## [7417]	2.40000	1.43000	2.94000	5.75000	5.40500	1.80000
## [7423]	1.82000	1.81250	1.92000	5.52000	2.47000	4.83000
## [7429]	6.11000	7.83000	6.30000	3.89500	6.50000	4.00000
## [7435]	6.48000	6.48000	2.10000	2.21000	2.94500	4.20000
## [7441]	4.41000	3.80000	3.51500	5.50000	6.44000	7.50000
## [7447]	3.84000	4.00000	3.80000	NA	NA	6.00000
## [7453]	13.68000	12.92000	12.71000	13.32000	3.04000	3.60000
## [7459]	3.60000	2.75200	4.14000	1.32000	2.03000	2.52000
## [7465]	2.89000	5.80000	1.08000	1.89000	1.43000	3.44000
## [7471]	2.99000	29.50000	33.48000	43.12000	55.20000	30.49800
## [7477]	5.13000	12.54000	25.80000	14.80000	19.08000	5.89000
## [7483]	6.00000	5.06000	12.30000	10.08000	31.32000	4.62000
## [7489]	23.80000	21.35000	31.90000	6.44000	1.80000	39.06000
## [7495]	NA	NA	2.73000	6.24000	18.48000	3.80000
## [7501]	26.40000	27.36000	10.85000	24.48000	15.17000	18.48000
## [7507]	NA	62.48000				

Had to add the canopy\_area as a column to the trees data frame

```
trees$canopy_area <- canopy_area
```

Can view if the canopy was added with bottom code

```
View(trees)
```

Finally after about 30mins of attempting to subset I finally managed to. Turns out I tried subsetting by names, but for this format it required numbers representing the columns.

```
subset(trees[c(1, 2, 3, 17)])
```

```
## # A tibble: 7,508 x 4
##   SURVEY YEAR SITE canopy_area
##   <dbl> <dbl> <chr>    <dbl>
## 1     1     1 2009 SOUTH     30.5
## 2     2     2 2010 SOUTH     69.7
## 3     3     3 2011 SOUTH     79.6
## 4     4     4 2012 SOUTH     39.0
## 5     5     5 2013 SOUTH     40.8
## 6     1     1 2009 SOUTH      6.16
## 7     2     2 2010 SOUTH      7.29
## 8     3     3 2011 SOUTH     12.5
## 9     4     4 2012 SOUTH      NA
## 10    5     5 2013 SOUTH      9.62
## # i 7,498 more rows
```

Needed to create dataframe subset of trees

```
trees_subset <- subset(trees[c(1, 2, 3, 17)])
```

Can view the subset produced with View() function

```
View(trees_subset)
```

Plot(*trees**canopy\_area*, *trees**HEIGHT*, pch=2, col=*trees**TREATMENT*) had issues

Kept getting error, Error in plot.xy(xy, type, ...) : invalid color name 'TOTAL', to fix issue I found that I needed to change the TREATMENT from a character to a factor type.

Issue was fixed with code: *trees**TREATMENT* = *as.factor(trees**TREATMENT)*

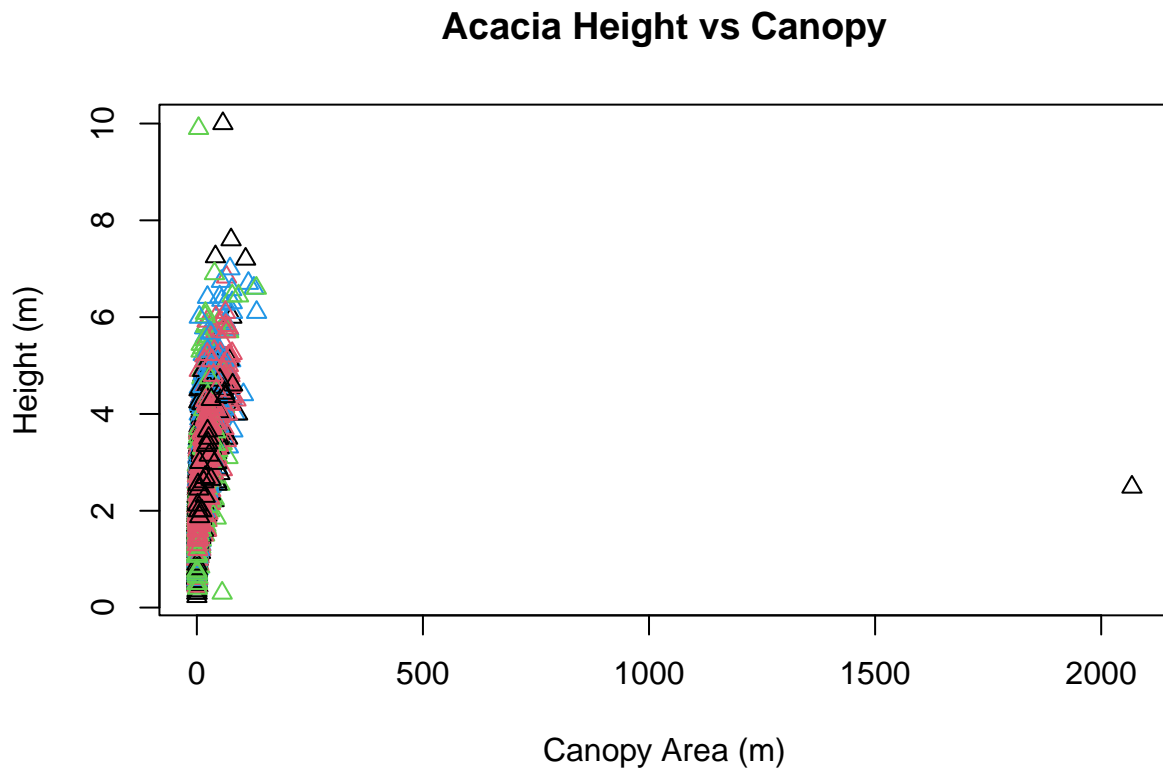
```
trees$TREATMENT = as.factor(trees$TREATMENT)
```

Had to set color with code:

```
col=rgb(100,0,0,50,maxColorValue=255)
```

This code functions as `plot(x axis, y axis, pch(which is point size), col(defined color) = (set variable for distinguishing data))`

```
plot(trees$canopy_area, trees$HEIGHT, pch=2, col=trees$TREATMENT, xlab = "Canopy Area (m)", ylab = "Height (m)")
```



Read in ggplot2

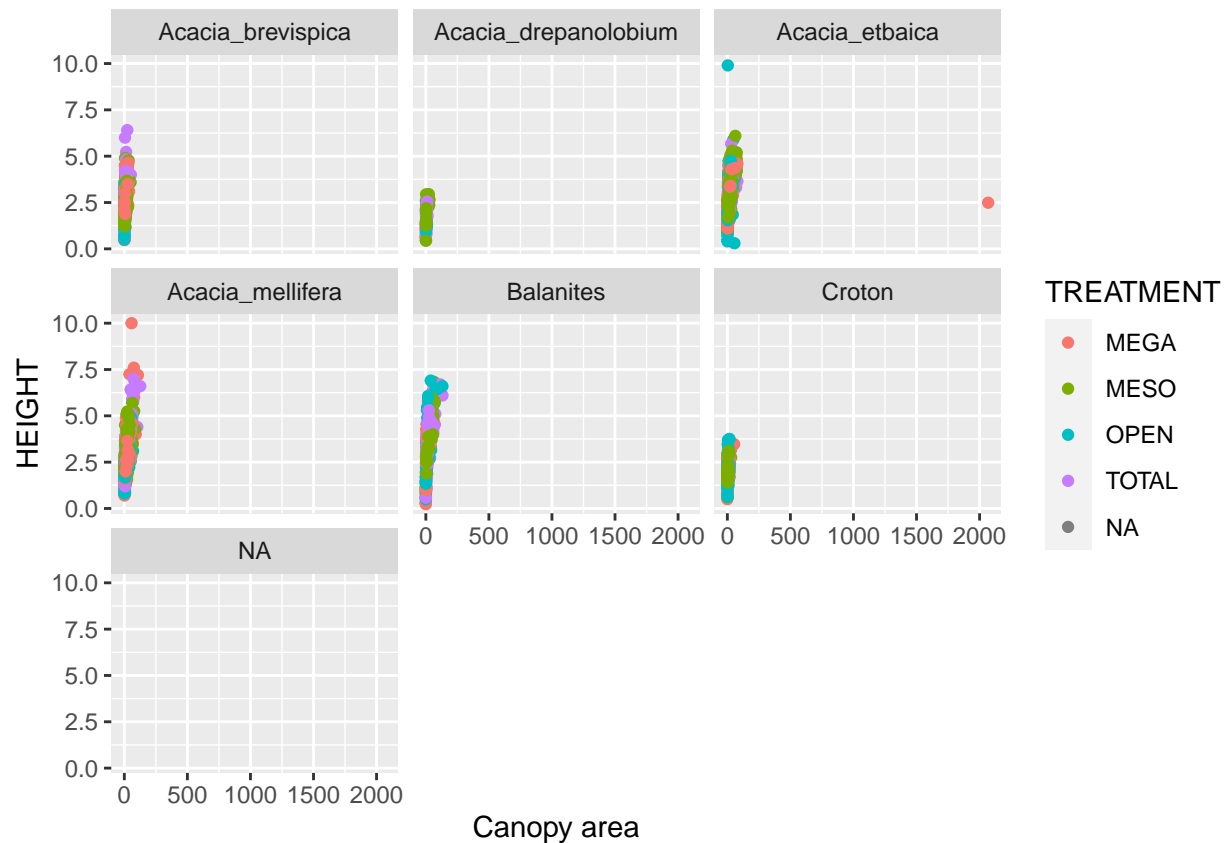
```
library(ggplot2)
```

```
## Warning: package 'ggplot2' was built under R version 4.2.3
```

Now use the code below to make subplots

```
ggplot(data = trees, mapping = aes(x = canopy_area, y = HEIGHT, color = TREATMENT)) + geom_point() +  
labs(x = "Canopy area") +  
facet_wrap(~SPECIES)
```

```
## Warning: Removed 215 rows containing missing values ('geom_point()').
```



## Exercise 4

### Load in txt file

```
acacia <- read.csv(file = "/Users/sanch/Documents/Schooldownloads/BI0197/Rstudio/Homeworks/Homeworks/da",
                  sep = "\t",
                  na.strings = "dead")
is.numeric(acacia$HEIGHT)
```

```
## [1] TRUE
```

```
ggplot() +
  geom_point(data = trees, mapping = aes(x= CIRC, y= HEIGHT), color = "gray", alpha = 0.5) +
  geom_point(data = acacia, mapping =aes (x = AXIS1, y=AXIS2), color = "red", alpha = 0.6)
```

```
## Warning: Removed 414 rows containing missing values ('geom_point()').
```

```
## Warning: Removed 4 rows containing missing values ('geom_point()').
```

