Visualization Homework

2023-03-02

```
acacia <- read.csv(file = ".../data raw/ACACIA DREPANOLOBIUM SURVEY.txt",
         sep = "\t",
        na.strings = "dead")
is.numeric(acacia$HEIGHT)
## [1] TRUE
head(acacia)
    SURVEY YEAR SITE BLOCK TREATMENT
                                          PLOT
                                                 ID HEIGHT AXIS1 AXIS2 CIRC
         1 2012 SOUTH 1
                                 TOTAL S1TOTAL 581
## 1
                                                      2.25 2.75 2.15
         1 2012 SOUTH
                         1
## 2
                               TOTAL S1TOTAL 582
                                                      2.65 4.10 3.90
                                                                         28
                         1 TOTAL S1TOTAL 3111 1.50 1.70 0.85
1 TOTAL S1TOTAL 3112 2.01 1.80 1.60
1 TOTAL S1TOTAL 3113 1.75 1.84 1.42
1 TOTAL S1TOTAL 3114 1.65 1.62 0.85
## 3
         1 2012 SOUTH
                                                                         17
         1 2012 SOUTH
                                 TOTAL S1TOTAL 3112 2.01 1.80 1.60
                                                                         12
         1 2012 SOUTH
## 5
                                                                         13
                                 TOTAL S1TOTAL 3114 1.65 1.62 0.85
## 6
         1 2012 SOUTH
                                                                         15
                         1
## FLOWERS BUDS FRUITS ANT
## 1
          0
               0
                     10 CS
## 2
          0
               0
                     150 TP
## 3
         2 1
                    50 TP
## 4
                      75 CS
          0 0
                      20 CS
## 5
           0
              0
## 6
#View(acacia)
trees <- read_tsv("../data raw/TREE_SURVEYS.txt")</pre>
## Rows: 7508 Columns: 16
## -- Column specification ------
## Delimiter: "\t"
## chr (9): SITE, TREATMENT, PLOT, SPECIES, DEAD, HEIGHT, AXIS_2, MEASUREMENT, ...
## dbl (7): SURVEY, YEAR, BLOCK, ORIGINAL_TAG, NEW_TAG, AXIS_1, CIRC
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
tail(trees$HEIGHT,500)
```

[1] "2.65" "1.91" "1.75" "2.73" "2.95" "1.89" "1.7" "2.89" "2.1" "1.79"

[11] "1.75" "2.2" "2.6" "1.7" "1.55" "1.85" "2.6" "1.9" "1.6" "1.5"

##

```
[21] "1.45" "1.5" "1.57" "2.78" "2.8" "0.8" "2.6"
                                                       "2.6" "1.7" "1.7"
##
    [31] "1.78" "2.05" "2"
                             "1.6" "1.6" "1.52" NA
##
                                                               "2.17" "2.3"
                                                        NΑ
    [41] "2.13" "2.3" "2.15" "1.45" "1.35" "1.3" "0.8"
                                                       "0.9" "2.1" "2.4"
##
    [51] "2.1" "2.15" "2.13" "1.57" "1.85" "1.7" "2.05" "2.1" "2.57" "2.15"
##
                      "1.95" "3.1" "3.05" "3.57" "4"
    [61] "2.04" "1.9"
                                                        "4.75" "1.55" "1.7"
                            "1.9" "1.92" "2.07" "1.82" "1.95" "3"
##
    [71] "1.7" "1.6"
                      "2"
   [81] "3.24" "3.1"
                      "3.28" "3.38" "3.55" "3.63" "3.7" "3.39" "2.69" "2.7"
   [91] "3.05" "3"
                      "3.6" "1.65" "1.85" "1.88" "2"
                                                        "2.28" "3.55" "3.55"
##
                                                        "3.17" "3.28" "3.3"
  [101] "4.04" "3.7"
                      "4.09" "2.31" "2.25" "2.57" "1.8"
                      "4.37" "1.79" "1.8" "1.8" NA
  [111] "3.92" "4"
                                                               "2.68" "2.9"
                                                        NA
                      "2.8" "2.79" "3.37" "3.29" "2.9"
  [121] "2.7" "2.8"
                                                        "3.13" "1.99" "2.09"
## [131] "2.26" "2.1"
                      "2.23" "1.86" "2.1" "1.95" "1.8"
                                                        "1.67" "2.13" "2.24"
  [141] "2.66" "2.6"
                      "3.32" "1.75" "1.85" "2.05" "2.1"
                                                        "2.47" "1.92" "2.15"
## [151] "2.12" "2"
                                                              "2.17" "2.39"
                      "1.72" "2.63" "2.79" "2.83" "2.7"
                                                        "3"
## [161] "2.65" "3"
                      "3.45" "1.75" "1.7" "1.5" "1.75" "1.6" "1.3" "1.85"
## [171] "1.95" "1.8" "1.6" "1.98" "1.8" "2.08" "2.2"
                                                        "1.67" "1.99" "1.7"
                                                        "1.06" "1.85" "1.85"
  [181] "1.95" "2"
                      "1.87" "1.63" "1.6" "1.45" "1.2"
## [191] "1.85" "1.62" "1.68" "2.48" "1.75" "1.89" "2"
                                                        "1.82" "1.29" "1.3"
## [201] "1.4" "0.7"
                      "1.58" "1.5" "1.25" "1.4" NA
                                                               "1.65" "1.6"
                                                        NΑ
## [211] "1.52" "2.4"
                      "1.35" "1.54" "1.2" "1.4"
                                                "1.75" NA
                                                               "1.38" "1.1"
## [221] "1.9" "1.8" "1.85" "2.44" "1.6" "1.6" "1.6"
                                                        "1.7" "1.76" "1.45"
## [231] "2.45" "1.6" "1.78" "1.25" "0.76" "1.6" "1.8" "2.2" "1.4" "1.3"
               "1.5" "1.82" "1.93" "1.9" "1.93" "1.8" "2.25" "2.21" "2.3"
## [241] NA
## [251] "2.21" "2.4" "2.23" "1.85" "1.5" "1.9" "1.9" "2.33" "1.65" "1.55"
                      "2.05" "2.7" "2.65" "3"
               "2"
                                                 "2.78" "3.05" "2.4" "2.5"
## [261] NA
                                                       "3.82" "3.47" "3.55"
## [271] "2.8" "2.95" "3.05" "3.57" "3.45" "4.1" "3.8"
## [281] "4.2" "3.7"
                      "4.09" "2.41" "2.25" "2.75" "3.7"
                                                        "3.47" "2.83" "2.7"
## [291] "2.65" "2.8" "2.87" "1.7" "1.75" "1.9" "2"
                                                        "2.82" "2.38" "2.32"
## [301] "2.65" "3.1" "2.64" "2.58" "2.62" "2.8" "2.75" "2.69" "2.37" "2.5"
## [311] "2.6" "2.5" "2.84" "2.9" "3.3" "3.85" "4.1" "4.17" "3.35" "3.4"
## [321] "3.5" "5.23" "3.15" "3.2" "2.5" "2.9" "3.6" "3.35" "2.2" "2.15"
  [331] "2.1" "2.7" "2.92" "3.52" "3.85" "4"
                                                 "3.8" "4.01" "2.9" "3"
## [341] "3.65" "3.5" "4.28" "3.92" "3.5" "4.2" "4.15" "5.1" "2.91" "3.3"
## [351] "4.1" "4.8" "4.49" "3.45" "3.7" "3.7" "3.25" "3.56" "2"
## [361] "2.2" "2.35" "2.84" "2.1" "2.1" "2.95" "3.51" "3.68" "1.58" "1.62"
## [371] "1.6" "1.62" "1.76" "1.7" "1.75" "2.1" "2.62" "2.71" "2.02" "2.55"
## [381] "2.5" "2.65" "2.61" "1.7" "1.94" "2.35" "2.27" "2.26" "1.3" "2.15"
## [391] "1.95" "1.7" "1.9" "2"
                                   "2.4" "1.75" "2.5" "2.1" "1.8" "1.2"
## [401] "2.25" "2.39" "3.18" "1.4" "1.85" "1.4" NA
                                                               "1.9" "1.9"
                                                        NA
## [411] "2.2" "2.6" "2.77" "1.5" "1.45" "1.45" "1.62" "1.75" "1.75" "1.85"
               "2.15" "2.2" "1.76" "1.85" "2"
                                                 "2.05" "2.06" "1.45" "1.4"
## [421] "2"
## [431] "1.45" "1.7" "1.78" "1.8" "1.95" "1.9" "1.8" "1.96" "1.99" "2.11"
## [441] "2"
                             "2.82" "3.1" "3"
                                                 "3.1"
                                                        "2.86" "1.6" "1.6"
               NA
                     NA
## [451] "1.6" "1.72" "1.93" "1.6" "1.6" "1.6" "1.7" "2.1" "1.81" "1.92"
## [461] "1.85" "2.15" "2.33" "3.23" "3.74" "3.81" "4"
                                                        "3.91" "2.9" "3.15"
## [471] "3.85" "3.35" "3.88" "1.89" "2.49" "2.65" "2.56" "3.06" "2.65" "2.45"
## [481] "3.65" "3.35" "4.3" "3"
                                 "2.12" "2.98" NA
                                                               "2.54" "1.88"
                                                        NA
## [491] "2.3" "2"
                    "3.5" "3.15" "2"
                                        "3.4" "2.6" "2.69" NA
                                                                     "4.36"
```

spc_tbl_ [7,508 x 16] (S3: spec_tbl_df/tbl_df/tbl/data.frame)
\$ SURVEY : num [1:7508] 1 2 3 4 5 1 2 3 4 5 ...

\$ YEAR : num [1:7508] 2009 2010 2011 2012 2013 ...

str(trees)

```
: chr [1:7508] "SOUTH" "SOUTH" "SOUTH" ...
## $ SITE
                  : chr [1:7508] "TOTAL" "TOTAL" "TOTAL" "TOTAL" ...
## $ TREATMENT
## $ BLOCK
                  : num [1:7508] 2 2 2 2 2 2 2 2 2 2 ...
## $ PLOT
                  : chr [1:7508] "S2T0TAL" "S2T0TAL" "S2T0TAL" "S2T0TAL" ...
##
   $ SPECIES
                  : chr [1:7508] "Acacia_etbaica" "Acacia_etbaica" "Acacia_etbaica" "Acacia_etbaica" ...
## $ ORIGINAL TAG: num [1:7508] 1 1 1 1 1 2 2 2 2 2 ...
                 : num [1:7508] NA ...
## $ NEW TAG
                  : chr [1:7508] "N" "N" "N" "N" ...
##
   $ DEAD
##
   $ HEIGHT
                  : chr [1:7508] "3.4" "3.32" "3.65" "3.74" ...
                  : num [1:7508] 6.1 8.25 8.85 5.5 5 2.2 2.75 3.3 NA 3.7 ...
## $ AXIS_1
   $ AXIS_2
                  : chr [1:7508] "5" "8.45" "9" "7.1" ...
                  : num [1:7508] 37.8 18.8 57 60 55 14.2 18.4 25 NA 31 ...
##
   $ CIRC
   $ MEASUREMENT : chr [1:7508] "D" "D" "C" "C" ...
##
                 : chr [1:7508] "1" "1" "1" "1" ...
##
   $ STEMS
    - attr(*, "spec")=
##
##
     .. cols(
##
          SURVEY = col_double(),
          YEAR = col_double(),
##
##
         SITE = col_character(),
##
         TREATMENT = col_character(),
     . .
##
         BLOCK = col_double(),
         PLOT = col_character(),
##
##
         SPECIES = col_character(),
     . .
##
         ORIGINAL_TAG = col_double(),
     . .
         NEW_TAG = col_double(),
##
##
         DEAD = col_character(),
         HEIGHT = col_character(),
##
     . .
##
         AXIS_1 = col_double(),
         AXIS_2 = col_character(),
##
     . .
         CIRC = col_double(),
##
##
         MEASUREMENT = col_character(),
     . .
##
         STEMS = col_character()
     ..)
   - attr(*, "problems")=<externalptr>
trees$HEIGHT
```

```
[1] "3.4"
                     "3.32"
                                "3.65"
                                          "3.74"
                                                     "3.59"
                                                                "2.3"
                                                                          "2.32"
##
                               "2.86"
                                                                "3"
      [8] "2.75"
                                          "1.8"
                                                     "2.95"
##
                     NA
     [15] "3.43"
                                                     "2.7"
##
                     "2.1"
                               "2.25"
                                          "2.6"
                                                                "2.89"
                                                                          "3.35"
                                                     "2.7"
##
     [22] "3.1"
                     "3.25"
                               "3.75"
                                          "3.42"
                                                               "2.6"
                                                                          "3.02"
##
     [29] "3.35"
                     "3.86"
                               "3.45"
                                          "3.35"
                                                     "3.45"
                                                                "3.81"
                                                                          "3.3"
     [36] "1.2"
                                                     "2.05"
                     "1.1"
                               "1.6"
                                          "1.91"
                                                                "1.3"
                                                                          "1.72"
##
                                "2.73"
                                          "2.2"
##
     [43] "2.12"
                     "2.36"
                                                     "2.6"
                                                                "2.87"
                                                                          "3.31"
                     "2.4"
                               "2.4"
                                          "2.68"
                                                     "3.15"
                                                                "3.17"
                                                                          "1.3"
##
     [50] "3.44"
     [57] "1.4"
                     "1.2"
                                          "2.08"
                                                     "2"
                                                                "2.15"
                                                                          "2.2"
##
                               NA
##
     [64] "2.1"
                     "2.18"
                               "1.95"
                                          "2.1"
                                                     "2.3"
                                                                "2.32"
                                                                          "2.45"
     [71] "2.6"
                     "2.87"
                               "2.9"
                                          "3.47"
                                                     "3.49"
                                                               "1.4"
                                                                          "1.7"
##
##
     [78] "1.84"
                     "2.2"
                               "2.51"
                                          "1.55"
                                                     "1.7"
                                                               "1.9"
                                                                          "2.1"
     [85] "2.1"
                     "2.9"
                               "2.95"
                                          "3.24"
                                                     "3.75"
                                                                "4.01"
                                                                          "4.6"
##
##
     [92] "4.95"
                     "5.1"
                               "4.3"
                                          "4.4"
                                                     "2.3"
                                                                "2.5"
                                                                          "2.78"
     [99] "3"
                     "3.2"
                               "2.4"
                                                     "3.3"
##
                                          "2.64"
                                                               "3.9"
                                                                          "3.75"
    [106] "1.4"
                     "1.69"
                               "2.34"
                                          "2.7"
                                                     "2.79"
                                                                "1.1"
                                                                          "1.74"
##
    [113] "2"
                     "2.1"
                               "1.94"
                                          "2.1"
                                                     "2.25"
                                                                "2.75"
                                                                          "2.9"
##
```

##	Γ1207	"2.98"	"1.4"	"1.35"	"1.8"	"1.65"	NA	"1.15"
##		"0.9"	"1.35"	"1.8"	"2.42"	"1.9"	"2.29"	"2.9"
##		"3.4"	"3.51"	"2.85"	"3.42"	NA	"6.41"	"2.6"
##		"2.8"	"4"	"4.24"	"2.45"	"2.85"	"3.65"	"4.45"
##	Γ148]	"2.2"	"2.4"	"2.3"	"2.4"	"2.58"	"1.9"	"1.95"
##	[155]	"2.19"	"3.13"	"0.65"	"0.6"	"0.71"	"1.2"	"1.67"
##	Γ162]	"2.17"	"2.35"	"2.45"	"2.25"	"2.05"	"0.5"	NA
##	Γ169T	NA	"2.4"	"2.45"	"2.9"	"3.15"	"3.1"	"4"
##	[176]	"4"	"3"	"4.85"	"5.78"	"2.55"	"3.9"	"4.55"
##	[183]	"4"	"4.55"	"3.7"	"3.8"	"3.75"	"3.88"	"1.5"
##	[190]	"1.6"	"1.9"	"2.15"	"2.23"	"1"	"0.93"	"1.15"
##	[197]	"1.65"	"2.37"	"0.23"	"0.3"	"0.35"	"0.3"	"0.6"
##	[204]	"0.58"	"0.6"	"0.6"	"0.6"	"2.62"	"2.9"	"3.12"
##	[211]	"3.3"	"3.25"	"1.1"	"1.2"	"1.45"	"1.45"	"2.47"
##	[218]	"2.25"	"2.55"	"2.78"	"3.15"	"3.27"	"1.58"	"1.7"
##	[225]	"2.2"	"2.2"	"2.38"	"2.45"	"2.8"	"3.01"	"3"
##	[232]	"3.15"	"1.75"	"1.75"	"1.9"	"1.9"	"1.97"	"2"
##	[239]	"2.1"	"1.9"	"1.75"	"1.76"	"1.7"	"1.8"	"1.8"
##	[246]	"1.8"	"1.91"	"2.6"	"2.4"	"2.8"	"2.7"	"2.08"
##	[253]	"1.9"	"1.88"	"1.9"	"2.02"	"2.65"	"1.4"	"1.6"
##	[260]	"1.85"	"1.75"	"1.8"	"0.8"	"0.85"	"1.15"	"1.38"
##	[267]	"1.7"	"1.85"	"1.9"	"2"	"1.9"	"2.36"	"1.5"
##	[274]	"1.65"	"1.89"	"1.85"	"1.83"	"1.5"	"1.7"	"1.9"
##	[281]	"1.65"	"1.71"	"2.19"	"2.4"	"2.35"	"2.15"	"2.2"
##	[288]	"3.4"	"3.55"	"3.36"	"3.2"	"3"	"1.8"	"2"
##	[295]	"2.2"	"2.4"	"2.25"	"2"	"2.25"	"2.45"	"2.6"
##	[302]	"2.93"	"1.55"	"1.85"	"2.25"	"2.2"	"2.45"	"2.1"
##	[309]	"2.2"	"2.3"	"2.49"	"2.66"	"0.9"	"2.4"	"2.38"
##	[316]	"2.91"	"3.41"	"2"	"1.1"	"0.92"	"1.7"	"1.96"
##	[323]	"2.25"	"2.42"	"2.55"	"2.5"	"2.44"	"1.65"	"1.55"
##	[330]	"2.05"	"2.43"	"2.43"	"3.3"	"3.8"	"3.69"	"4"
##	[337]	"7.25"	"1.62"	"1.5"	"2"	"2.5"	"2.7"	"2.7"
##	[344]	"3.3"	"3.6"	"3.6"	"4"	"2.9"	"3"	"3.25"
##	[351]	"4"	"3.95"	"1.35"	"1.5"	"1.75"	"1.85"	"2.13"
##	[358]	"3.3"	"3.3"	"3.14"	"3.65"	"3.81"	"0.9"	NA
##	[365]	"0.95"	"0.74"	"0.7"	"10" "3.2"	"6"	"7.2"	"7.6"
##	[372] [379]	"4.7"	"2.44"	"2.8"		"4.1"	"4.49"	"2.3"
## ##	[386]	"2.63" "0.6"	"2.71" "2.27"	"3.34" "2.5"	"0.79" "3.31"	"1" "3.2"	"0.6" "3.82"	"0.5" "1.45"
##	[393]	"1.4"	"1.5"	"1.15"	"1.44"	"1.13"	"1.2"	"0.61"
##	[400]	"0.73"	"0.65"	"0.53"	"0.6"	"0.47"	"0.55"	"2.55"
##	[407]	"2.4"	"2.53"	"2.5"	"2.13"	"1.8"	"2.05"	"2.25"
##	[414]	"2.75"	"2.1"	"2.05"	"2.35"	"2.63"	"2.25"	"1.14"
##		"2.6"	"2.55"	"2.79"	"2.8"	"3.8"	"2.52"	"2.8"
##		"2.7"	"2.8"	"3.4"	"1"	"1.1"	"1.35"	"1.3"
##		"1.22"	"1.75"	"1.8"	"1.85"	"1.55"	NA	"1.1"
##	[442]	"1"	"1.2"	"1.3"	"1.25"	"1.35"	"1.5"	"1.24"
##	[449]	NA	"1.4"	"1.45"	"1.55"	"1.5"	"1.62"	"1.6"
##	[456]	"1.7"	"1.75"	"1.65"	"1.75"	"2.16"	"2.3"	"2.16"
##		"2.17"	"2.43"	"1.3"	"1.28"	"1.45"	"1.28"	"1.25"
##		"1"	"1.1"	"1.4"	"1.07"	"1.1"	"0.75"	"0.63"
##	[477]	"0.82"	"0.67"	"0.7"	"0.5"	"0.45"	"0.62"	"0.68"
##	[484]	"0.9"	"2.15"	"2.15"	"2.25"	NA	NA	"3.74"
##	[491]	"3.75"	"4.35"	"4.1"	"5.9"	"2.45"	"2.37"	"2.75"

##	[498] "0.	.3"	NA	"2.7"	"3"	"3.25"	"2.9"	"4"
##	[505] "2.	.59"	"2.8"	"3.2"	"2.95"	"3.8"	"2.75"	"3.15"
##	[512] "3.	.3"	"2.95"	"3.66"	"2.72"	"2.65"	NA	NA
##	[519] NA		"2.64"	"2.84"	"3.1"	"3.15"	"3.45"	"3.94"
##	[526] "4"	1	"4"	"4.1"	"4.1"	"3.06"	"3.05"	"3.65"
##	[533] "3.	.57"	"3.6"	"1.95"	"2.05"	"2.55"	"2.3"	"2.87"
##	[540] "1'	1	"1.5"	"1.85"	"2.75"	"2.72"	"2.52"	"2.35"
##	[547] "2.	.5"	"2.4"	"2.92"	"2.2"	"2.8"	"2.65"	"2.9"
##	[554] "2.		"2.1"	"2.1"	"2.5"	"2.35"	"2.7"	"2.05"
##	[561] "2"	1	"2.25"	"1.4"	"1.9"	"1.6"	"2"	"2.2"
##	[568] "2.	.1"	"2.4"	"2.74"	"2.79"	"2.95"	"3"	"3.38"
##		.62"	NA	"3.59"	"3.2"	"2.8"	NA	NA
##	[582] "2.		"2"	"2.07"	"2.15"	"1.64"	"2.09"	"2"
##	[589] "2.		"1.9"	"1.85"	"2.85"	"2.45"	"2.95"	"2.8"
##		.61"	"3.31"	"2.5"	"2.4"	"1.8"	"1.71"	"2.08"
##	[603] NA		NA	NA	NA	"2.75"	"2.3"	"2.5"
##		.95"	"3.63"	"1.25"	"0.78"	"1.5"	"2.05"	"2.38"
##	[617] "1.		"2.3"	"2.5"	"2.28"	"1.7"	"1.68"	"1.3"
##	[624] "1.		"1.47"	"1.72"	"1.65"	"1.5"	"1.4"	"1.25"
##	[631] "1.		"1.72"	"1.55"	"2.3"	"2.02"	"1.9"	"2.76"
##		.17"	"2.95"	"2.65"	"3.18"	"1.25"	"1.25"	"1.5"
##		.35"	"1.55"	"1.75"	"1.2"	"1.5"	"1.8"	"1.82"
##		.76"	NA	NA	NA	NA	"1.8"	"1.75"
##	[659] "1.		"1.8"	"1.8"	"1.3"	NA	"1.75"	"2.88"
##	[666] NA		"2.07"	"2.05"	"2.2"	"1.3"	NA	"1.45"
##		.25"	"1.6"	"1.3"	"1.46"	"2.58"	"2.65"	"2.7"
##	[680] "2.		"2.44"	"2.58"	"2.1"	NA	NA	NA
##	[687] "2.	.9"	"2.95"	"3.05"	"3.05"	"3.34"	"2.69"	"2.55"
##	[694] "2.	.65"	"2.6"	"2.99"	"2.75"	"3.05"	"2.87"	"2.87"
##	[701] "3.	.38"	"1.9"	"2.7"	"2.05"	"1.85"	"1.95"	"2.55"
##	[708] "2.	.55"	"2.76"	"2.3"	"2.45"	"1.89"	"2.04"	"2.02"
##	[715] NA		NA	"1.9"	"2.1"	"2.24"	"2.5"	"2.42"
##	[722] "2.	.34"	"2.32"	"2.6"	"2.35"	"2.69"	"1.3"	"1.35"
##	[729] "1.	.6"	"1.5"	"1.85"	"2.93"	"3"	"3.72"	"4.2"
##	[736] "4.	.56"	"1.94"	"1.9"	"2.4"	"2.35"	"2.85"	"2.05"
##	[743] "2.	.75"	"2.9"	"3.2"	"3.24"	"2.1"	"1.75"	"2.5"
##	[750] "4.	.5"	"2.49"	"2.45"	"2.45"	"2.8"	"3"	"3.8"
##	[757] "1.	.4"	"1.8"	"1.75"	"2.15"	"2.34"	"1.5"	"1.75"
##	[764] "2.		"2"	"2.3"	"3.5"	"3.9"	"3.92"	"3.9"
##	[771] "3.	.88"	"1.2"	"1.2"	"1.6"	"2.2"	"2.4"	"1.3"
##	[778] "1.	.45"	"1.8"	"2.15"	"2.09"	"2.9"	"2.9"	"3.15"
##	[785] "3.	.5"	NA	"2"	"2.5"	"2.9"	"2.83"	"2.74"
##	[792] "1.	.4"	"1.65"	"2.75"	"4.5"	"3.2"	"2.7"	"2.85"
##	[799] "3.	.05"	"3"	"2.35"	"1.3"	"1.4"	"1.91"	"2.2"
##	[806] "1.	.66"	"1.9"	"2.1"	"2.31"	"2.25"	"2.77"	"2.35"
##	[813] "2.	.4"	"2.11"	"3.15"	"3.36"	"3.44"	"2.4"	"2.48"
##	[820] "2.	.4"	"2.5"	"2.25"	"2.67"	"4"	"3.9"	"4.2"
##	[827] "3.	.37"	"3.59"	"4.5"	"4"	"3.55"	"2.64"	"2.65"
##	[834] "3.	.55"	"2.84"	"3.05"	"1.1"	"1.3"	"1.6"	"1.64"
##	[841] "2.	.08"	"2.8"	"3.03"	"2.64"	"2.4"	"2.7"	"2.6"
##	[848] "2.	.79"	"2.96"	"2.8"	"2.95"	"2.4"	"2.15"	"2.04"
##	[855] "2.	.22"	"2.15"	"3.25"	"3.1"	"3.24"	"2.9"	"3.14"
##	[862] "1.	.97"	"2.95"	"2.1"	"2.05"	"2"	"2.41"	"2.51"
##	[869] "2.	.73"	"2.6"	"2.98"	"3.45"	"3.27"	"3.33"	"2.2"

##	[876]	"3.15"	"1.8"	"1.7"	"2.13"	"2.78"	"2.59"	"1.9"
##	[883]	"1.7"	"1.91"	"2.55"	"2.24"	"4.51"	"5.4"	"5.9"
##	[890]	"6.83"	"2.77"	NA	NA	"2.42"	"2.5"	"2.49"
##	[897]	"2.88"	"2.95"	"2.05"	"2.28"	"2.17"	"1.75"	"2.15"
##	[904]	"1.18"	"1.45"	"1.2"	"1.64"	"1.8"	NA	"2.55"
##	[911]	"2.7"	"3.05"	"3.35"	"3.59"	"2.42"	"2.73"	"2.85"
##	[918]	"3.15"	"2.9"	"3.25"	"3.31"	"3.55"	"3.82"	"4.23"
##	[925]	"2.7"	"2.85"	"3.3"	"3.5"	"3.72"	"1.45"	"1.55"
##	[932]	"2.45"	"2.9"	"4.79"	"3.15"	"3.35"	"3.95"	"4.5"
##	[939]	"4.3"	"3.14"	"3.05"	"3.6"	"3.3"	"3.95"	"2.8"
##	[946]	"2.9"	"2.95"	"3.4"	"2.98"	"2.52"	"2.25"	"2.8"
##	[953]	"3"	"3.15"	"1.85"	"1.9"	"1.9"	"2"	"2.1"
##	[960]	"2.65"	"3.19"	"3.1"	"3.6"	"3.9"	"3.9"	"4.02"
##	[967]	"4.27"	"5"	"4.63"	"1.2"	"1.65"	"1.9"	"2.2"
##	[974]	"2.5"	"5.2"	"5.85"	"5.75"	"7"	"6.27"	"3.3"
##	[981]	"4.3"	"3.6"	"4.5"	"4.7"	"5.9"	"6.57"	"6.42"
##	[988]	"6.3"	"6.6"	"1.85"	"2.2"	"2.45"	"2.8"	"3.21"
##	[995]	"1.1"	"1.45"	"1.7"	"1.7"	"1.9"	"2.45"	"2.95"
	[1002]	"3.05"	"2.8"	"3.85"	"1.02"	"1.6"	"4"	"2.6"
	[1002]	"2.78"	"4"	"4"	"4.45"	"4.2"	"5.23"	"1.8"
	[1016]	"1.8"	"2.8"	"2.2"	"2.44"	"1.5"	"2.65"	"3.4"
	[1023]	"4.7"	"4"	"1.5"	"2.3"	"4"	"3.6"	"4.29"
	[1020]	"1.5"	"1.23"	"2.1"	"2.6"	"2.71"	"2.6"	"2.6"
	[1037]	"2.6"	"3"	"3.2"	"2.45"	"2.55"	"2.8"	"2.4"
	[1037]	"2.8"	"2.9"	"2.4"	"2.75"	"3.1"	"2.89"	"2.72"
	[1051]		"2.25"	"2.5"	"2.6"	"1"	"1.1"	"1.4"
	[1051]	"1.3"	"1.1"	"6.35"	"6.74"	"6.1"	"6.7"	"6.1"
	[1065]	"3.2"	"3.35"	"4.6"	"4.2"	"5.19"	"1.72"	"2.05"
	[1003]	"2.3"	"2.3"	"2.47"	"1.05"	"1.12"	"1.2"	"1.4"
	[1072]	"1.64"	"1.41"	"1.55"	"1.85"	"2.25"	"2.49"	"2.63"
	[1073]	"2.5"	"2.75"	"2.65"	"2.74"	"1.35"	"1.6"	"1.8"
	[1000]	"2"	"2.15"	"2.55"	"1.83"	"2.8"	"2.5"	"2.6"
	[1100]	"2"	"2.3"	"2.15"	"2.5"	"2.65"	"2.65"	"2"
	[1100]	"3.15"	"3.2"	"3.35"	"1.5"	"1.75"	"1.8"	"1.85"
	[1114]	"1.95"	"2.05"	"1.65"	"2.3"	"2.7"	"2.6"	"2.2"
	[1114]	"1.6"	"2.4"	"2.4"	"2.45"	"2.6"	"1.87"	"2.85"
		"2.9"	"3"	"1.85"	"1.95"	"2.3"	"2.9"	"3.82"
		"1.4"	"1.7"	"1.8"	"1.85"		"2.7"	
	[1142]	"3"	"2.95"	"3.44"	"1.4"	"2.05" "2.22"	"3.1"	"2.5" "3.25"
	[1142]	"3.55"	2.95 "1.85"	"3.25"	"2.04"	"2.3"	"2.9"	"2.32"
	[1156]	"2.69"	"3.7"	"3.8"	"3.9"	"2.52"	"1.8"	"3.65"
	[1163]	"3.85"	"4.5"	"2"	"2.1"	"2.65"	"2.6"	"2.66"
	[1170]	"1.9"	"1.55"	"2.1"	"2.7"	"2.6"	"2.5"	"2.35"
	[1177]	"2.57"	NA	"2.73"	"1.4"	"1.5"	"1.8"	"1.9"
	[1177]	"2.23"	"1.9"	"2.1"	"2.6"	"2.6"	"2.77"	"2.5"
	[1191]	"2.4"	"3.4"	"3.85"	"3.2"	"2.92"	"1.95"	"4"
	[1191]	"3.55"	"3.85"	"2.24"	"1.73"	"3.1"	"3.7"	"3.73"
	[1205]	"2"	"1.69"	"2.35"	"2.2"	"2.37"	"3.35"	"3.6"
		"3.8"	"2.6"	"2.57"	"1.4"	"1.7"	"2.45"	"2.95"
	[1212] [1219]	"3.8" "2.85"	"2.6" "1.4"	"2.57" "1.7"	"1.4" "2.15"	"1.7"	"2.45"	"2.4"
		"2.85"	"1.4" "3.1"	"1.7" "2.7"	"3.3"	"2.5"	"2.64"	"2.4"
	[1226] [1233]	"2.2" "4.8"	"3.1" "4.5"	"2. <i>1</i> " "1.8"	"3.3" "2"	"2.6"	"3.3"	"3.55"
	[1233]	"4.8"	"4.5" "2.85"	"1.8" "3.5"	"3.65"	"3.63"	"3.3"	"3.55"
	[1240]		"2.85" "2.95"	"3.5" "4.6"	"3.65"	"0.85"	"1.1"	"3.9" "1"
##	[124/]	2.1"	2.95	4.0	1.2	0.85"	1.1"	Ι

##	Г12547	"0.9"	"3.95"	"3.92"	"4.3"	"4.3"	"4.61"	"2.34"
	[1261]	"3.05"	"3.5"	"3.8"	"4.05"	"2.91"	"1.75"	"2.9"
	[1268]	"3.1"	"2.9"	"2"	"2.6"	"2.4"	"2.45"	"2.4"
	[1275]	"4.3"	"4.25"	"4.25"	"4.3"	"4.38"	"3.9"	"3.65"
	[1282]	"5.1"	"4.1"	"3.95"	"2.49"	"2.55"	"3.4"	"3"
	[1289]	"3.85"	"2.5"	"2.45"	"2.8"	"2.9"	"2.97"	"2.15"
	[1203]	"1.95"	"1.85"	"2.2"	"2.29"	"2"	"2.08"	"2.15"
	[1303]	"2.54"	"2.55"	"2.35"	"2.2"	"2.57"	"1.8"	"2.98"
	[1303]	"2.75"	"2.8"	"2.95"	"2.85"		"2.4"	"2.42"
				"3.1"		"3.27"		
	[1317]	"2.4"	"3.1"		"2.6"	"1.95"	NA	NA
	[1324]		"1.55"	"1.5"	"0.85"	"3.9"	"4.1"	"2.45"
	[1331]	"2.2"	"2.3"	"1.6"	"2.65"	"1.85"	"9.9"	"2.45"
		"3"	"3.18"	"2.19"	"1.5"	"1.9"	"2.2"	"2.32"
		"3.35"	"3.5"	"2.45"	"1.8"	"1.5"	"1.4"	"1.51"
	[1352]	"1.9"	"1.75"	"2.14"	"1.33"	"1.16"	"1.5"	"1.6"
	[1359]	"1.45"	"1.4"	"1.15"	"0.9"	NA	"0.84"	"1.2"
	[1366]	"1.75"	"1.5"	"1.9"	"2.23"	"1.35"	"0.81"	"1.4"
	[1373]	"1.7"	"1.91"	"1.3"	"1.1"	"1.5"	"1.6"	"1.75"
	[1380]	"1.3"	"0.96"	"1"	"1.2"	"1.47"	"1.8"	"1.48"
	[1387]	"1.85"	"1.55"	"1.7"	"1.45"	"1.5"	"1.6"	"2.5"
##	[1394]	"1.35"	"1.92"	"1.85"	"1.9"	"1.85"	"1.82"	"2.15"
##	[1401]	"2.2"	"3"	"2.7"	"2.45"	"2.3"	"1.75"	"2"
##	[1408]	"1.75"	"1.75"	"1.55"	"2.15"	"1.8"	"1.7"	"1.12"
##	[1415]	"2.45"	"2.7"	"2.5"	"2.5"	"2.42"	"1.4"	"1.4"
##	[1422]	"1.4"	"1.45"	"1.3"	"3.1"	"3.15"	"2.95"	"2.9"
##	[1429]	"3.05"	"2.05"	"2.25"	"3.75"	"2.2"	"2.57"	"2.25"
##	[1436]	"2.1"	"1.9"	"2.7"	"2.2"	"1.2"	"1.25"	"1.7"
##	[1443]	"1.9"	"2.25"	"2.11"	"2.05"	"2.55"	"2.2"	"2.58"
##	[1450]	"1.6"	"1.8"	"1.95"	"2"	"1.95"	"2.29"	"2.45"
##	[1457]	"0.8"	"1.7"	"1.85"	"2.6"	"2.55"	"2.6"	"2.6"
##	[1464]	"2.35"	"1.68"	"1.52"	"1.2"	"2.2"	"1.35"	"2.16"
##	[1471]	"1.95"	"1.8"	"1.8"	"1.85"	"0.98"	"1.15"	"1.7"
##	[1478]	"1.5"	"1.55"	"2.66"	"2.8"	"2.9"	"2.5"	"2.8"
##	[1485]	"1.08"	"1.15"	"1.3"	"1.6"	"1.64"	"1.44"	NA
##	[1492]	"0.5"	NA	"0.73"	"2.8"	"3.75"	"3.35"	"3.5"
##	[1499]	"3.45"	"2.82"	"2.75"	"3.25"	"3.45"	"3.68"	"2.7"
##	[1506]	"2.75"	"3.2"	"3.14"	"3.6"	"1.9"	"1.7"	"2.3"
##		"2.85"	"2.71"	"2.64"	"2.75"	"3.15"	"3.2"	"3.61"
##	[1520]	"2.35"	"2.4"	"2.55"	"2.9"	"3.24"	"2.34"	"3"
	[1527]	"3.44"	"3.35"	"3.63"	"2.25"	"2.45"	"2.65"	"2.9"
	[1534]	"2.92"	"2.05"	"1.75"	"2.05"	"2.35"	"2.78"	"2.1"
	[1541]	"2.05"	"2.6"	"2.65"	"2.76"	"1.8"	"2"	"2.3"
	[1548]	"2.5"	"2.61"	"3.3"	"3.67"	"4.2"	"4.2"	"5.08"
	[1555]	"1.95"	"2.05"	"2.35"	"2.64"	"3.15"	"2.5"	"3.4"
	[1562]	"3.3"	"3.7"	"4.73"	"1.25"	"1.65"	"1.95"	"2.74"
	[1569]	"2.26"	"2.2"	"2.8"	"2.6"	"2.95"	"3.18"	"2.22"
	[1576]	"2.2"	"2.8"	"3"	"3.1"	"2.8"	"2.8"	"3.25"
	[1570]	"3.3"	"3.75"	"1.8"	"2"	"2.7"	"2.85"	"3.05"
	[1590]	"2.4"	"2.29"	"3.2"	"3.35"	"3.69"	"2.42"	"2.4"
		"2.4"	"2.29"	"3.2" "2.89"	"3.35"	"3.69"	"2.42"	"2.4"
	[1597]							
	[1604]	"4.09"	"2.8"	"2.85"	"2.8"	"2.4"	"2.63" "3.82"	"2.35" "3.97"
	[1611]	"2.45"	"2.95"	"2.8"	"3.14"	"3.25"		
	[1618]	"3.8"	"4.22"	"1.4"	"1.2"	"2.15"	"2.44"	"2.73"
##	[1625]	"2.95"	"2.95"	"3.2"	"3.6"	"4.14"	"1.2"	"1.2"

##	Г1632]	"1.85"	"1.9"	"1.5"	"2.05"	"2.05"	"2.2"	"2.1"
	[1639]	"2.13"	"1.8"	"1.9"	"2.74"	"3.1"	"2.82"	"0.81"
	[1646]	"1.2"	"1.6"	"1.74"	"1.95"	"2.5"	"1.85"	"3.1"
	[1653]	"3.1"	"3.08"	"1.58"	"1.6"	"2"	"2.05"	"2.22"
	[1660]	"1.35"	"1.45"	"1.87"	"2.2"	"2.34"	"1.49"	"2.3"
	[1667]	"1.8"	"1.95"	"2.2"	"2.45"	"1.95"	"2.65"	"2.5"
	[1674]	"2.56"	"2.1"	"1.9"	"2.5"	"2.6"	"2.75"	"1.9"
	[1674]	"2.4"	"2.7"	"2.7"	"3.09"	"1.95"	"2.31"	"3.05"
	[1688]	"3.05"	"2.95"	"4.09"	"4.35"	"5.14"	"4.95"	"4.39"
	[1695]	"3.14"	"3.25"	"3.6"	"2.9"	"2.59"	"1.41"	"1.7"
	[1702]	"2.8"						
			"3.3"	"3.66"	"2.08"	"2"	"2.2"	"2.05"
	[1709]	"1.97"	"1.17"	"1.9"	"2.05"	"3.35"	"3.11"	"2.33"
	[1716]	"2.4"	"2.05"	"2.65"	"3.23"	"3.2"	"3.15"	"3.8"
		"3.5"	"3.25"	"0.88"	"0.81"	"1"	"3.6"	"1.1"
	[1730]	"1.51"	"1.3"	"1.8"	"1.87"	"2.05"	"2.25"	"2.35"
	[1737]	"2.6"	"2.38"	"2.65"	"1.37"	"1.1"	"2.35"	"2.58"
	[1744]	"2.35"	"2.03"	"2.7"	"2.2"	"2.65"	"2.5"	"1.47"
	[1751]	"1.5"	NA	NA	NA	"2.94"	"2"	"2.3"
	[1758]	"2.35"	"2.35"	"1.95"	"2.05"	"1.95"	"1.88"	"2.21"
	[1765]	"2.45"	"2.3"	"2.6"	"3.1"	"3.63"	"3.8"	"2.65"
	[1772]	"4.1"	"4.35"	"4.72"	"2.8"	"2.9"	"2.9"	"2.3"
	[1779]	"3.35"	"2.45"	"2.24"	"3.1"	"3.7"	"3.97"	"2.6"
##	[1786]	"2.45"	"2.8"	"3.6"	"3.32"	"2.7"	"2.7"	"3.1"
##	[1793]	"3.35"	"3.08"	"1.9"	"1.8"	"2.2"	"2.5"	"2.1"
##	[1800]	"2.35"	"2.4"	"2.9"	"2.97"	"3.1"	"2.5"	"2"
##	[1807]	"2.7"	"2.9"	"2.68"	"2.35"	"2.25"	"2.65"	"3"
##	[1814]	"2.7"	"1.4"	"1.45"	"1.9"	"2.2"	"2.58"	"1.5"
##	[1821]	"1.51"	"1.9"	"2"	"2.39"	"2.5"	"2.3"	"2.8"
##	[1828]	"3.5"	"3.34"	"1.8"	"1.8"	"2.2"	"3"	"3.09"
##	[1835]	"1.8"	"1.89"	"2.2"	"2.8"	"3.16"	"1.85"	"1.85"
##	[1842]	"2.05"	"3.3"	"2.8"	"1.35"	"1.45"	"1.7"	"2.1"
##	[1849]	"2.29"	"2.5"	"2.8"	"2.8"	"3.05"	"3"	"1.45"
##	[1856]	"1.51"	"2.35"	"1.75"	"2.58"	"1.3"	"1.5"	"1.75"
##	[1863]	"2.8"	"2.1"	"1.59"	"1.75"	"1.9"	"2"	"2.06"
##	[1870]	"2.22"	"2.45"	"2.9"	"3"	"3.04"	"2.05"	"2"
##	[1877]	"2.15"	"2.05"	"2.3"	"2.37"	"2.4"	"2.75"	"2.94"
##	[1884]	"3.31"	"2.65"	"2.77"	"2.75"	"3.2"	"missing"	"1.63"
	[1891]	"1.5"	"1.85"	"1.8"	"1.8"	"3.24"	"3.28"	"3.9"
	[1898]	"3.8"	"3.9"	"2.08"	"1.14"	"2.55"	"3.48"	"4.34"
	Γ1905]	"1.36"	"1.45"	"2.45"	"2.4"	"2.05"	"2.4"	"2.45"
##	[1912]	"2.7"	"2.5"	"2.79"	"1.28"	"1.3"	"1.6"	"1.9"
	[1919]	"1.69"	"2.17"	"2"	"2.2"	"2"	"2.12"	"1.05"
	[1926]	"1.2"	"1.4"	"1.35"	"1.25"	"1.48"	"1.5"	"1.8"
	[1933]	"1.9"	"2"	"1.82"	"1.9"	"2.35"	"1.8"	"1.85"
		"3.12"	"2.5"	"2.9"	"2.8"	"2.62"	"1.57"	"1.5"
	[1947]	"1.7"	"2"	"1.97"	"1.18"	"1.2"	"1.8"	"1.9"
	[1954]	"1.75"	"2.16"	"2.04"	"2.12"	"2.45"	"2.38"	"3.64"
	[1961]	"2.24"	"3.75"	"3.7"	"3.6"	"1.69"	"1.8"	"2.05"
	[1961]	"2.25"	"2.4"	"2.15"	"2.75"	"3"	"3.1"	"3.4"
	[1968]	"2.25"	"2.4"	"2.15" "2.75"	"2.75"	"3" "3.05"	"3.1"	"3.4"
						"3.05"		
	[1982]	"2.65" "2.7"	"2.55" "2.15"	"2.62"	"1.99"	"2.2"	"2.5" "3.21"	"2.35" "4.15"
	[1989]			"2.6"	"2.85"			
	[1996]	"4.09"	"4.1"	"3.84"	"4.24"	"4.24"	"4.36"	"4.4"
##	[2003]	"3.92"	"4.52"	"1.55"	"2.87"	"2.65"	"2.9"	"3.32"

##	[2010]	"4.55"	"4.45"	"5.1"	"4.4"	"5.6"	"2.1"	"2.04"
	[2017]		NA	NA	"1.85"	"1.78"	"1.75"	"1.8"
	[2024]	"1.72"	"1.85"	"1.7"	"2.1"	"2.47"	"2.55"	"1.94"
		"1.8"	"1.92"	"2.15"	"2.1"	"1.8"	"1.75"	"1.75"
	[2031]	"1.9"	"1.95"	"1.62"	"1.7"	"1.9"	"1.7"	"1.77"
	[2045]	"1.1"	"1.1"	"1.5"	"1.95"	"2.23"	"1.4"	"1.35"
								"1.4"
	[2052]	"1.65"	"1.8"	"2"	"1.14"	"0.8"	"1.3"	
	[2059]	"1.68"	"1.09"	"1.1"	"1.35"	"1"	"0.95"	"1.3"
	[2066]	"1.35"	"1.8"	"1.75"	"2.12"	"2.45"	"2.7"	"2.7"
		"3.1"	"3.65"	"2.75"	"2.9"	"3.3"	"2.84"	"3.3"
		"1.35"	"1.5"	"1.84"	"2.12"	"2.33"	"2.55"	"2.45"
	[2087]	"2.8"	"3"	"3.35"	"2.17"	"2.04"	"2.9"	"2.6"
	[2094]	"3.15"	"2.35"	"3.32"	"2.7"	"3.05"	"3.28"	"2.3"
	[2101]	"2"	"2.5"	"2.4"	"2.65"	"2.15"	"2.05"	"2.3"
##	[2108]	"1.95"	"2.26"	"2.45"	"2.54"	"2.8"	"2.35"	"2.52"
##	[2115]	"2.4"	"2.61"	"2.9"	"3.1"	"3.39"	"2"	"2.08"
##	[2122]	"2.4"	"2.35"	"2.36"	"2.9"	"3.15"	"3.3"	"2.4"
##	[2129]	"3.35"	"1.8"	"1.8"	"2.35"	"2.4"	"2.63"	"2.6"
##	[2136]	"2.7"	"2.9"	"2.65"	"2.95"	"2.5"	"2.91"	"3.1"
##	[2143]	"2.86"	"3.38"	"1.2"	"1.2"	"1.3"	"1.45"	"1.66"
##	[2150]	"2.2"	"2.3"	"2.25"	NA	NA	"1.4"	"1.5"
##	[2157]	"1.8"	"1.83"	"1.84"	"2.7"	"2.7"	"3.25"	"2.8"
##	[2164]	"3.47"	"2.15"	"2.18"	"2.75"	"2.8"	"2.89"	"2.3"
##	[2171]	"2.47"	"2.9"	"3.55"	"3.05"	"1.9"	"2.44"	"2.7"
##	[2178]	"2.42"	"2.63"	"1.85"	"1.9"	"3.1"	"2.6"	"2.25"
##	[2185]	"1.75"	"1.8"	"2.8"	"2.82"	"3.27"	"2.15"	"2.22"
##	[2192]	"2.5"	"1.15"	"1.05"	"2.1"	"2.15"	"2.9"	"2.72"
##	[2199]	"2.76"	"2.6"	"2.55"	"3.6"	"3.8"	"4.2"	"2.24"
##	[2206]	"2.5"	"2.9"	"2.48"	"2.33"	"2.2"	"2.35"	"2.35"
##	[2213]	"2.55"	"2.64"	"1.12"	"1.15"	"1.5"	"1.44"	"1.78"
##	[2220]	"2.44"	"2.1"	"2.2"	"2.1"	"2.08"	"2.3"	"2.5"
##	[2227]	"2.17"	"1.3"	"1.85"	"2.52"	"2.34"	"2.5"	"2.25"
##	[2234]	"2.44"	"1.85"	"1.88"	"1.9"	"1.55"	"1.79"	"1.25"
##	[2241]	"1.2"	"1.6"	"1.45"	"1.76"	"1.29"	"1.4"	"1.8"
##	[2248]	"1.84"	"1.95"	"1.96"	"2.2"	"1.85"	"2.15"	"2.23"
##	[2255]	"1.84"	"1.7"	"1.9"	"1.97"	"2.89"	"1.6"	"1.8"
##	[2262]	"2"	"1.9"	"1.81"	"3.44"	"3.1"	"3.6"	"3.34"
##		"3.5"	"2.15"	"2.1"	"2.65"	"2.85"	"3.35"	"5.09"
##	[2276]	"5.1"	"5.45"	"5.1"	"4.99"	"4.72"	"4.75"	"4.6"
##	[2283]	"4.45"	"4.9"	"3.99"	"3.9"	"4.1"	"3.75"	"3.95"
##	[2290]	"3.7"	"3.4"	"4.2"	"3.55"	"3.98"	"3.72"	"3.9"
	[2297]	"4.4"	"4.1"	"4.39"	"2.44"	"2.4"	"2.45"	"2.4"
	[2304]	"2.47"	"2.3"	"2.15"	"2.35"	"2.45"	"2.85"	"1.84"
	[2311]	"1.85"	"1.8"	NA	NA	"1.95"	"2"	NA
##	[2318]	"1.8"	NA	"3.96"	"3.95"	"1.6"	"2.8"	"3.1"
##	[2325]	"3.62"	"3.34"	"3.6"	"3.7"	"3.73"	"2.05"	"2.2"
##	[2332]	"2.35"	"2.6"	"2.79"	"2.44"	"2.75"	"2.9"	"3.45"
##	[2339]	"3.39"	"3.95"	"3.85"	"4.75"	NA	"4.63"	"3.19"
##	[2346]	"3.35"	"2.4"	NA	NA	"1.4"	"1.3"	"1.9"
##	[2353]	"1.65"	"1.79"	"1.35"	"1.35"	"1.5"	"1.8"	"1.13"
##	[2360]	"1.94"	"1.96"	"2.2"	"2.3"	"2.87"	"2.1"	"2.16"
##	[2367]	"3"	"2.7"	"3.12"	"1.25"	"1.15"	"1.7"	"2"
##		"2.05"	"2.17"	"2.25"	"2.65"	"1.15	"2.23"	"2.47"
	[2381]		"3.1"	"2.4"	"2.83"	"2.95"	"2.79"	"3.25"
##	[2001]	2.0	3.1	2.4	2.03	2.30	2.13	3.25

##	Г23881	"3"	"2.86"	"2"	"2.21"	"2.4"	"1.15"	NA
##		"2.3"	"2.46"	"2.07"	"2.95"	"3.45"	"2.3"	"2.4"
##		"2.25"	"2.45"	"2.23"	"2.72"	"2.75"	"2.6"	"3.22"
##	[2409]	"3.44"	"2.62"	"2.62"	"2.7"	"2.9"	"2.23"	"2.89"
##		"3.15"	"2.9"	"2.8"	"2.7"	"2.54"	"2.75"	"2.35"
##		"2.2"	"2.59"	"2.82"	"2.75"	"3.2"	"3"	"3.21"
##	[2430]	"2.1"	"1.9"	"1.85"	"1.6"	"1.75"	"2.15"	"1.8"
##	[2437]	"2.1"	"1.97"	"1.92"	"1.89"	"1.6"	"1.82"	"1.8"
##	[2444]	"2"	"2.85"	"1.85"	"2.65"	"2.75"	"2.78"	"1.15"
##	[2451]	"1.05"	"1.6"	"1.6"	"1.4"	"2.38"	"2.22"	"2.4"
##	[2458]	"2.12"	"2.23"	"2.12"	"1.25"	"2.2"	"1.55"	"2.12"
##	[2465]	"2.34"	"2.23"	"2.35"	"2.1"	"2.5"	"1.5"	"1.45"
##	[2472]	"1.7"	"1.3"	"1.5"	"2.7"	"2.85"	"3"	"2.5"
##	[2479]	"3.35"	"1.43"	"1.45"	"2"	"1.75"	"2.55"	"1.7"
##	[2486]	"1.7"	"1.8"	"0.85"	"1.35"	"2.33"	"1.6"	"1.9"
##	[2493]	"2.05"	"1.83"	"1.15"	"1.16"	"1.2"	NA	NA
##	[2500]	"1.9"	"1.91"	"1.55"	"1.7"	"1.78"	"5.81"	"5.85"
##	[2507]	"5.2"	"5.37"	"5.28"	"5.34"	"5.6"	"6.9"	"4.9"
##	[2514]	"5.05"	"1.25"	"1.35"	"1.6"	NA	NA	"1.2"
##	[2521]	"1.4"	"1.4"	"0.9"	NA	"1.94"	"2"	"1.9"
##	[2528]	"1.9"	"1.9"	"1.65"	"1.8"	"1.6"	"1.5"	"1.52"
##	[2535]	"2.59"	"2.3"	"2.7"	"2.5"	"2.77"	"3.17"	"3.15"
##	[2542]	"3.15"	"3"	"3"	"2.76"	"2.65"	"3.3"	"3.7"
##	[2549]	"3.55"	"2.64"	"2.55"	"2.8"	"3.5"	"3.55"	"2.39"
##	[2556]	"2.2"	"2.7"	"3"	"2.95"	"3.16"	"2.9"	"3.3"
##	[2563]	"3.4"	"3.21"	"2.3"	"2.35"	"2.35"	"2.2"	"2.35"
##	[2570]	"4.65"	"4.7"	"5.1"	"4.9"	"4.56"	"2.8"	"3.06"
##	[2577]	"3"	"3.3"	"3.65"	"2.65"	"2.75"	"3.2"	"3.5"
##	[2584]	"3.95"	"3.1"	"3.35"	"3.25"	"3.3"	"3.75"	"2.2"
##	[2591]	"2.36"	"2.75"	"2.6"	"2.9"	"2"	"2.15"	"2.35"
##	[2598]	"2.5"	"2.8"	"3"	"3.7"	"3.8"	"3.2"	"3.75"
##	[2605]	"3.2"	"3.35"	"3.7"	"4.6"	"4.29"	"1.77"	"1.3"
##	[2612]	"2.35"	"3.6"	"2.7"	"3.21"	"3.05"	"3.6"	"3.5"
##	[2619]	"3.4"	"2.4"	"2.37"	"3"	"3.25"	"3.15"	"3.25"
##	[2626]	"3.45"	"4.9"	"3.2"	"4.87"	"3.54"	"2.7"	"3.35"
##	[2633]	"3.6"	"3.65"	"2.3"	"2.9"	"3.47"	"3.65"	"3.76"
##	[2640]	"3.6"	"3.55"	"4"	"3.4"	"3.85"	"2.17"	"2.2"
##		"3"	"3.3"	"3.49"	"3.15"	"3"	"3.2"	"3.1"
##		"3.35"	"3.12"	"3.2"	"3.45"	"3.45"	"3.4"	"2.6"
		"2.9"	"3"	"3"	"3.35"	"2.3"	"2.7"	"2.9"
		"2.8"	"2.95"	"2.45"	"2.85"	"2.55"	"2.6"	"2.8"
		"1.94"	"1.9"	"1.9"	"1.7"	"1.92"	"1.44"	"1.42"
##		"1.5"	"1.4"	"1.45"	"2.06"	"2.04"	"2"	"2"
		"2.1"	"2.38"	"2.1"	"2.45"	"2.2"	"2.32"	"1.77"
		"2.1"	"2.3" "2.87"	"2.2" "2.17"	"2.3"	"2.58"	"2.34"	"2.65"
		"2.6" "1.62"	"2.87"	"2.17" "2.1"	"2.3" "2.1"	"2.7" "2.45"	"2.5" "2.49"	"3.09" "2.15"
		"2.7"	"2.6"	"2.1"	"1.59"	"2.45"	"2.49"	"2.15"
		"2.55"	"4.45"	"4.1"	"4.6"	"3.9"	"4.41"	"3.37"
		"3.3"	"5"	"3.3"	"4.5"	"1.8"	"1.8"	"2.8"
		NA	"3.85"	"1.25"	"1.4"	"1.6"	"1.95"	"2.19"
	[2745]	"0.44"	NA	NA	NA	NA	"2.45"	"2.4"
##		"2.3"	"2.5"	"2.37"	"3.22"	"3.19"	"2.95"	"3.25"
		"3.82"	"2.95"	"3"	"2.45"	"3.1"	"3.49"	"3.34"
	[2.00]	0.02	2.00	•	2.10	J. 1	0.10	0.01

##	[2766]	"3.32"	"3.55"	"3.8"	"4.76"	"4.46"	"4.2"	"3.1"
	[2773]	"4.2"	"4.12"	"2.24"	"2.25"	"2.5"	"2.8"	"2.36"
	[2780]	"2.64"	"2.57"	"2.9"	"2.5"	"3.38"	"3.55"	"3.34"
	[2787]	"3.3"	"3.7"	"4.03"	"3.65"	"3.45"	"3.85"	"4"
	[2794]	"3.77"	"1.77"	"1.74"	"2.15"	"2.3"	"2.79"	"1.52"
	[2801]	"1.9"	"2.35"	"3.37"	"2.73"	"2.99"	"3.25"	"2.35"
	[2808]	"3.84"	"4.15"	"3.03"	"3.3"	"3.85"	"3.75"	"4.46"
	[2815]	"1.85"	"2.1"	"2.34"	"2.9"	"3.02"	"1.43"	"1.5"
	[2822]	"1.5"	"1.55"	"1.63"	"2.15"	"2.2"	"2.3"	"2.15"
	[2829]	"2.4"	"4.23"	"4.8"	"4.05"	"4.3"	"4.48"	"2.21"
	[2836]	"2.14"	"2.35"	"2.35"	"2.73"	"2.25"	"2.4"	"2.8"
##	[2843]	"2.8"	"3.02"	"2.02"	"2.4"	"2.65"	"2.9"	"3.13"
##	[2850]	"1.95"	"2.34"	"2.04"	"2"	"2"	"2.7"	"2.92"
##	[2857]	"3.34"	"3"	"2.94"	"2.24"	"2.9"	"2.87"	"2.5"
##	[2864]	"2.95"	"2.1"	"2.35"	"2.25"	"2.35"	"2.77"	"3.2"
##	[2871]	"3.54"	"3.65"	"3.65"	"3.64"	"1.7"	"1.5"	"1.75"
##	[2878]	"1.95"	"2.89"	"2.16"	"2.15"	"2.5"	"2.55"	"2.23"
##	[2885]	"3.02"	"3.35"	"3.15"	"3.25"	"3.29"	"2.95"	"3.24"
##	[2892]	"3.15"	"3.45"	"3.84"	"2.9"	"2.92"	"3.05"	"3.15"
##	[2899]	"3.77"	"1.79"	"2.1"	"2.2"	"2.6"	"2.55"	"1"
##	[2906]	"1.2"	"1.6"	"1.8"	"1.92"	"1.2"	"0.95"	"1.2"
##	[2913]	"1.5"	"1.75"	"1.5"	"1.6"	"2.15"	"2.5"	"2.85"
##	[2920]	"1.94"	"2.3"	"2.34"	"2.5"	"2.39"	"2.67"	"2.95"
##	[2927]	"2.84"	"2.7"	"2.96"	"2.7"	"2.55"	"2.82"	"2.8"
##	[2934]	"2.92"	"2.89"	"2"	"2.45"	"2.65"	"2.8"	"1.89"
##	[2941]	"2.4"	"2.75"	"2.8"	"2.83"	"2.88"	"2.95"	"3"
##	[2948]	"3.1"	"3.14"	"2.89"	"3.3"	"3.25"	"2.95"	"2.72"
##	[2955]	"0.58"	"1.05"	"1.75"	"1.7"	"1.87"	"3.46"	"3.55"
##	[2962]	"3.4"	"4.1"	"4.89"	"2.85"	"3.12"	"3.55"	"3.65"
##	[2969]	"4.2"	"1.6"	"1.7"	"1.85"	"1.62"	"2.84"	"4.35"
##	[2976]	"4.15"	"4.22"	"4.15"	"4.45"	"2.1"	"2.25"	"2.25"
##	[2983]	"2.15"	"2.55"	"2.65"	"2.8"	"2.6"	"2.24"	"2.69"
##	[2990]	"1.4"	"1.4"	"1.6"	"1.46"	"1.6"	"2.8"	"2.9"
##	[2997]	"3.03"	"2.9"	"2.8"	"2.5"	"2.55"	"2.6"	"2.45"
##	[3004]	"2.9"	"2.15"	"2.22"	"2.15"	"2.2"	"2.28"	"2.21"
##	[3011]	"2.8"	"3"	"3.12"	"4.2"	"1.91"	"2"	"2.1"
##	[3018]	"2"	"2.95"	"1.96"	"2.95"	"2.11"	"2.25"	"3"
		"1.87"	"1.9"	"2.05"	"2.2"	"2.5"	"2.7"	"2.48"
	[3032]	"2.7"	NA	NA	"1.74"	"1.75"	"2.02"	"1.98"
##	[3039]	"2.58"	"4.46"	"3.84"	"4.6"	"4.1"	"4.5"	"4.05"
##	[3046]	"3.8"	"4.3"	"3.9"	"4.35"	"2.6"	"2.35"	"2.95"
	[3053]	"2.9"	"3.55"	"1.18"	"1.45"	"1.7"	"2.05"	"2.3"
	[3060]	"1.87"	"1.9"	"2.15"	"2.3"	"2.93"	"3.23"	"3.25"
	[3067]	"3.65"	"3.35"	"3.55"	"1.45"	"1.5"	"1.5"	"1.45"
	[3074]	"2.23"	"1.65"	"1.75"	"2"	"1.75"	"3.27"	"1.85"
	[3081]	"1.7"	"2.85"	"2.1"	NA	"2.24"	"1.85"	"2.3"
	[3088]	"2.1"	"2.2"	"2.57"	"2.1"	"2.43"	"2"	"2.23"
	[3095]	"2.5"	"2.54"	"2.6"	"2.6"	"2.75"	"1.85"	"2.15"
		"2.34"	"2.2"	"2.2"	"1.69"	"1.4"	"1.4"	"1.25"
		"1.8"	"1.85"	"2.05"	"1.96"	"1.9"	"1.95"	"1.4"
	[3116]	"1.2"	"1.6"	"1.8"	"2.15"	"1.15"	"1.3"	"1.5"
	[3110]	"1.55"	"1.82"	"1"	"1.4"	"1.6"	"1.52"	"1.65"
	[3130]	"1.65"	"1.7"	"1.65"	"1.6"	"1.6"	"2.25"	"2.5"
	[3137]		"2.5"	"2.7"	"2.64"	"2.65"	"3.3"	"3.18"
π#	[0101]	4.7	2.0	۷.1	∠.∪±	2.00	0.0	5.10

##	Г31447	"3.47"	"1.79"	"1.75"	"1.95"	"2.25"	"2.65"	"0.77"
	[3151]	"0.8"	"0.8"	NA	NA	"1.1"	"1"	"1.2"
	[3158]	"1.4"	"1.48"	"4.25"	"4"	"4.65"	"4.2"	"5.17"
	[3165]	"4.69"	"4.8"	"4.65"	"4.3"	"4.7"	"4.16"	"4.54"
	[3172]	"4.86"	"4.9"	"5.1"	"2.56"	"2.7"	"2.66"	"2.71"
##	[3179]	"2.63"	"2.16"	"1.95"	"2.1"	"2.23"	"2.65"	"2.98"
##	[3186]	"1.65"	"2.9"	"2.9"	"3.27"	"3"	"2.9"	"3"
##	[3193]	"3.25"	"2.82"	"2.36"	"2.4"	"2.68"	"3.1"	"3.16"
##	[3200]	"3.53"	"3.4"	"3.49"	"3.83"	"3.28"	"3.43"	"3.3"
##	[3207]	"3.1"	"3.5"	"3"	"1.48"	"1.6"	"1.6"	"1.6"
##	[3214]	"1.73"	"1.14"	"0.95"	"1.45"	"1.3"	"1.64"	"1.9"
##	[3221]	"1.94"	"1.94"	"1.9"	NA	"2.77"	"2.85"	NA
##	[3228]	"3.1"	NA	"1.4"	"1.6"	"1.5"	NA	NA
##	[3235]	"2.04"	NA	"2.55"	"2.85"	"3.1"	"3.09"	"2.5"
##	[3242]	"2.8"	NA	"2.99"	"1.45"	"1.65"	"1.6"	"1.6"
##	[3249]	"1.83"	"1.65"	"1.8"	"0.84"	"1.7"	"1.76"	"2.05"
##	[3256]	"1.9"	"2.1"	"2.3"	NA	"2.51"	"2.4"	"2.6"
##	[3263]	"2.83"	"2.65"	"2"	"1.8"	"1.85"	"2"	"1.85"
##	[3270]	"1.19"	"1.35"	"1.35"	"1.1"	"1.35"	"1.87"	"1.9"
##	[3277]	"1.79"	"1.95"	"1.91"	"2.05"	"2.1"	"2"	"1.95"
##	[3284]	"1.77"	"2"	"1.25"	"0.65"	"2.05"	NA	"2.47"
##	[3291]	"2"	"1.8"	"2.6"	"1.2"	"2.2"	"2.52"	"3.41"
##	[3298]	"2.8"	"2.05"	"1.46"	"1.55"	"1.6"	"1.6"	"1.4"
##	[3305]	"1.63"	"1.7"	"1.7"	"1.75"	"1.7"	"1.95"	"2.05"
##	[3312]	"1.8"	"1.9"	"1.85"	"2.65"	"2.74"	"2.49"	"2.1"
##	[3319]	"1.93"	"2.6"	"2.24"	"2.25"	"2.61"	"1.98"	"1.55"
##	[3326]	"1.1"	"1.45"	"1.65"	"1.67"	"2.82"	"2.52"	"2.65"
##	[3333]	"2.65"	"2.45"	"1.32"	"1.4"	"1.4"	"1.5"	"1.57"
##	[3340]	"1.4"	"1.5"	"1.45"	"1.6"	"1.35"	"1.3"	"1.3"
##	[3347]	"1.4"	"1.35"	"1.3"	"1.85"	"1.8"	"1.8"	"1.9"
##	[3354]	"1.79"	"1.8"	"1.85"	"2.15"	"1.25"	"1.3"	"1.7"
##	[3361]	"1.85"	"1.9"	"1.85"	"1.98"	"1"	"1.3"	"1.45"
##	[3368]	"1.5"	"1.65"	"0.95"	NA	"1.2"	NA	NA
##	[3375]	"4.12"	"4.48"	"4.2"	"4.2"	"3.77"	"2.95"	"3.14"
##	[3382]	"3.25"	"3.05"	"3.1"	"5.44"	"3.8"	"5.24"	"5.45"
##	[3389]	"4.35"	"5.7"	"6.6"	"6.44"	"5.7"	"6.44"	"4.75"
##	[3396]	"4.9"	"4.17"	"3.95"	"3.87"	"2.4"	"2.57"	"2.8"
##	[3403]	"2.55"	"3.4"	"2.05"	"2.25"	"2"	"1.9"	"2.2"
##	[3410]	"2.34"	"2.7"	"3"	"3.15"	"2.85"	"1.9"	"2.15"
	[3417]	"2.1"	"2.45"	"3.2"	"3.75"	"3.37"	"3.15"	"2.75"
	[3424]	"3.38"	"2.15"	"2.25"	"2.65"	"2.42"	"3.15"	"2.25"
	[3431]	"2.25"	"2.35"	"2.12"	"2.8"	"2.45"	"2.65"	"2.95"
	[3438]	"2.52"	"3" "2.4"	"2.94"	"2.95"	"2.9"	"2.95"	"2.55" "2.74"
##	[3445]	"2.05"		"2.6"	"2.6"	"3.15"	"2.55"	
##	[3452]	"2.8" "3.39"	"2.7"	"3.27" "2.5"	"2.44" "3.8"	"2.2"	"2.55"	"2.5"
##	[3459]		"2.62"			"2.8"	"3.55"	"2.4"
##	[3466]	"2.55"	"2.8"	"2.65"	"3.39"	"1.8" "2.1"	"1.7"	"1.85" "2.3"
##	[3473]	"1.8"	"2.3"	"2.15"	"2.08" "3.45"		"1.85"	
## ##	[3480] [3487]	"2.3" "2.79"	"2.74" "3.3"	"2.95" "4.06"	"3.45" "1.6"	"3.15" "1.6"	"2.84" "1.6"	"1.9" "1.55"
##	[3494]	"2.79"	"3.3" "2.15"	"2.22"	"2.2"	"1.6"	"2.47"	"2.65"
##	[3501]	"2.95"	"3.1"	"2.6"	"3"	"2.95"	"2.5"	"3.14"
##	[3501]	"1.9"	"2"	"2.74"	"3.4"	"3.3"	"3.2"	"3.45"
	[3515]	"2.82"	"3.15"	"3.74"	"3.6"	"4.3"	"2.45"	"2.54"
ππ	[0010]	2.02	0.10	U.1.T	0.0	4.0	2.40	2.01

	[0500]			"0 05"	"4 04"	"0 45"	"0 05"	45.11
	[3522]		"2.4"	"2.95"	"1.94"	"2.15"	"2.25"	"2.45"
	[3529]		"2.8"	"2.95"	"3.55"	"3.15"	"4.25"	"3.2"
##	[3536]	"3.6"	"3.7"	"3.8"	"3.6"	"2.62"	"2.84"	"2.8"
	[3543]		"3.18"	"2.05"	"2.1"	"2.1"	"1.98"	"2.45"
##	[3550]	"1.62"	"1.7"	"2"	"2.2"	"2.35"	"1.25"	"1.4"
##	[3557]	"1.6"	"1.7"	"2.35"	"2.79"	"2.85"	"2.8"	"2.6"
##	[3564]	"2.5"	"1.44"	"1.4"	"1.3"	"1.45"	"1.49"	"1.3"
##	[3571]	"1.6"	"1.7"	"1.55"	"1.45"	"0.95"	"1.05"	"1.1"
	[3578]		"1.07"	"1.53"	"1.5"	"1.7"	"1.85"	"2.2"
	[3585]	"2.59"	"2.6"	"2.65"	"2.75"	"2.15"	"2.17"	"2.15"
	[3592]	"2.5"	"2.2"	"2.64"	"2.27"	"2.5"	"2.8"	"1.9"
	[3599]	"2.49"	"5.44"	"5.14"	"5.55"	"5.5"	"5.78"	"4.16"
		"5.2"	"5.07"	"4.8"	"5.39"	"2.74"	"2.74"	"3"
			"3.6"	"1.42"	"1.6"		"1.8"	"1.9"
	[3613]	"3.1"				"1.8"		
##	[3620]	"3.1"	"3.25"	"3.25"	"2.82"	"3"	"2.5"	"2.7"
##	[3627]	"3"	"2.55"	"2.9"	"1.8"	"2.04"	"2.25"	"2.2"
	[3634]	"2.9"	"2.25"	"2.45"	"2.35"	"2.2"	"2.53"	"2"
	[3641]	"2.1"	"2.35"	"2.3"	"2.7"	"1.9"	"1.92"	"2.4"
##	[3648]	"2.65"	"2.86"	"2.25"	"2.3"	"2.5"	"2.55"	"3.3"
##	[3655]	"2.94"	"3.1"	"3.37"	"3.4"	"3.6"	"2.45"	NA
##	[3662]	"2.6"	"2.5"	"3"	"2.55"	NA	"3.1"	"2.72"
##	[3669]	"3.36"	"1.8"	NA	"2.12"	"2.3"	"2.8"	"1.85"
##	[3676]	NA	"2.25"	"2.7"	"3.37"	"3.45"	NA	"3.9"
##	[3683]	"4.05"	"4.45"	"3.1"	NA	"3.9"	"3.75"	"3.95"
##	[3690]	"3.1"	NA	"3.55"	"4.25"	"4.3"	"1.95"	NA
##	[3697]	"2.62"	"4.5"	"3.3"	"1.9"	NA	"2.2"	"3"
	[3704]	"2.9"	"2.8"	NA	"3.25"	"3.5"	"3.3"	"2.6"
	[3711]	"2.85"	"3.6"	"3.35"	"3.6"	"1.6"	"1.75"	"2.1"
	[3718]	"2"	"1.95"	"1.7"	"1.7"	"2.8"	"1.47"	"1.8"
	[3725]	"2.8"	"2.54"	"2.65"	"2.45"	"2.4"	"2.62"	"2.7"
			"2.85"		"1.8"	"1.75"		"1.8"
	[3732]	"3.15"		"3"			"1.85"	
	[3739]	"2.25"	"2.42"	"2.35"	"2.6"	"1.79"	"1.93"	"2.37"
	[3746]	"2.54"	"2.95"	"3"	"2.92"	"2.45"	"2.7"	"2.45"
##	[3753]	"2.7"	NA	"2.52"	"2.15"	"2.6"	"2.55"	"1.5"
	[3760]	"1.3"	"1.4"	"1.6"	"1.5"	"1.55"	"1.92"	"1.95"
	[3767]	"2.1"	"1.85"	"1.99"	"2.05"	"2.94"	"1.95"	"1.8"
##	[3774]	"2.07"	"2.2"	"2.3"	"2.3"	"2.05"	"2.2"	"1.96"
##	[3781]	"2"	"2.65"	"2.8"	"3"	"1.61"	"1.74"	"2.05"
##	[3788]	"2.3"	"2.7"	"2.46"	"2.23"	"2.05"	"2.7"	"2.9"
##	[3795]	"2.19"	"2.05"	"2.4"	"2.3"	"2.8"	"1.99"	"2"
##	[3802]	"2.5"	"2.3"	"2.6"	"2.34"	"2.3"	"2.42"	"2.4"
##	[3809]	"2.6"	"4.16"	NA	"5"	"4.35"	"5"	"3.2"
	[3816]	NA	"4.1"	"4.32"	"5"	"3.15"	NA	"4"
	[3823]	"3.65"	"4"	"4.94"	NA	"4.92"	"5.3"	"5"
	[3830]	"5.18"	NA	"5.7"	"5.32"	"4.2"	"2.15"	"2.1"
	[3837]	"2.54"	"2.33"	"2.49"	"2.17"	"2.24"	"2.55"	"2.55"
	[3844]	"3.5"	"2.75"	"2.7"	"2.8"	"2.75"	"3.8"	"2.68"
##	[3851]	"2.48"	"2.7"	"2.75"	"2.7"	"2.75"	"2.35"	"2.6"
		"2.46"				"2.65"		"2.65"
##	[3858]		"2.85"	"2.75"	"2.8"		"2.35"	
##	[3865]	"3.45"	"3.34"	"3.3"	"3.3"	"3.9"	"1.37"	"1.35"
##	[3872]	"1.55"	"1.25"	"1.1"	"3.4"	"3.08"	"3.05"	"3.1"
	[3879]	"3.5"	"1.37"	"1.3"	"1.5"	"1.22"	"1.53"	"3.15"
	[3886]	"3.1"	"3.5"	"3.6"	"4.3"	"2.82"	"2.95"	"2.9"
##	[3893]	"3"	"3"	"2.72"	"2.21"	"2.6"	"2.55"	"3.3"

##	[3900]	"2.7"	"2.95"	"3.04"	"2.87"	"3.6"	"3.65"	"3.65"
		"3.4"	"3.5"	"4"	"2.65"	"2.41"	"2.8"	"3.1"
	[3914]	"3.88"	"2.3"	"2.23"	"2.4"	"2.4"	"2.4"	"1.95"
	[3921]	"1.9"	"2"	"2"	"2.15"	"2.3"	"2.22"	"2.57"
	[3921]	"2.64"	"3"	"1.85"	"1.84"	"1.94"	"1.6"	"1.9"
	[3935]	"3.2"			"2.95"	"2.6"	"1.55"	"1.6"
			"2.7"	"2.94" "3.35"				
	[3942]	"1.85"	"1.55"		"2.26"	"2.3"	"2.2"	"2.1"
	[3949]	"1.78"	"2.47"	"2.54"	"2.75"	"2.4"	"2.48"	"2.35"
	[3956]	"2.34"	"2.15"	"1.5"	"2.25"	"2.2"	"2.3"	"2.4"
	[3963]	"2.35"	"2.57"	"1.94"	"1.8"	"1.3"	"1.47"	"1.48"
	[3970]	"1.42"	"1.35"	"1.95"	"2.3"	"2.35"	"2.65"	"2.74"
	[3977]	"3"	"2.94"	"3"	"2.15"	"2.18"	"2.04"	"2.15"
	[3984]	"2"	"1.44"	"1"	"1.9"	"2.3"	"3.05"	"2.35"
	[3991]	"2.2"	"2.3"	"2.14"	"3.05"	"3.7"	"1.85"	"3"
##	[3998]	"3.1"	"4.05"	"2.25"	"2.24"	"2.2"	"2.4"	"2.9"
##	[4005]	"1.35"	"1.3"	"1.4"	"1.64"	"1.95"	"2.8"	"2.8"
##	[4012]	"2.9"	"2.7"	"2.72"	"1.51"	"1.4"	"1.65"	"1.55"
##	[4019]	"1.75"	"3.6"	"3.24"	"3.87"	"3.7"	"4.15"	"1.95"
##	[4026]	"1.7"	"1.95"	"1.82"	"2.6"	"1.46"	"1.45"	"1.55"
##	[4033]	"1.55"	"1.85"	"3.9"	"3.6"	"3.95"	"3.65"	"3.85"
##	[4040]	"2.8"	"2.76"	"2.9"	"2.38"	"3.05"	"2.5"	"2.59"
##	[4047]	"2.55"	"2.25"	"3.39"	"2.4"	"2.9"	"2.85"	"2.54"
##	[4054]	"2.95"	"2.12"	"1.73"	"1.95"	"1.9"	"2.49"	"1.55"
##	[4061]	NA	NA	NA	NA	"2.2"	"2.05"	"2.3"
##	[4068]	"2.15"	"2.7"	"2.5"	"2.51"	"2.3"	"2.1"	"1.78"
##	[4075]	"2.6"	"3"	"3"	"2.75"	"2.75"	"2.7"	"2.54"
##	[4082]	"2.3"	"2.2"	"3.06"	"2.2"	"1.9"	"1.95"	"2.1"
##	[4089]	"2.55"	"1.45"	"2.15"	"2.14"	"1.67"	"1.96"	"1.9"
##	[4096]	"1.75"	NA	NA	NA	"2"	"2.15"	"2.45"
	[4096] [4103]	"1.75" "2.87"	NA "2.23"	NA "1.6"				
##					NA	"2"	"2.15"	"2.45" "1.6"
## ##	[4103]	"2.87"	"2.23"	"1.6"	NA "1.64"	"2" "1.85"	"2.15" "1.5" "1.87"	"2.45"
## ## ##	[4103] [4110]	"2.87" "1.9"	"2.23" "1.8"	"1.6" "3.2"	NA "1.64" "2.85"	"2" "1.85" "3.58"	"2.15" "1.5"	"2.45" "1.6" "1.85"
## ## ## ##	[4103] [4110] [4117]	"2.87" "1.9" "1.9"	"2.23" "1.8" "2.7"	"1.6" "3.2" "1.78"	NA "1.64" "2.85" "2.95"	"2" "1.85" "3.58" "2.7" "2.4"	"2.15" "1.5" "1.87" "2.3"	"2.45" "1.6" "1.85" "2.42"
## ## ## ##	[4103] [4110] [4117] [4124] [4131]	"2.87" "1.9" "1.9" "2.35" "1.64"	"2.23" "1.8" "2.7" "2.25" "1.8"	"1.6" "3.2" "1.78" "2.08" "0.5"	NA "1.64" "2.85" "2.95" "2.05" "1.21"	"2" "1.85" "3.58" "2.7" "2.4" "1.68"	"2.15" "1.5" "1.87" "2.3" "2" "1.72"	"2.45" "1.6" "1.85" "2.42" "1.9"
## ## ## ## ##	[4103] [4110] [4117] [4124] [4131] [4138]	"2.87" "1.9" "1.9" "2.35" "1.64" "2.2"	"2.23" "1.8" "2.7" "2.25"	"1.6" "3.2" "1.78" "2.08" "0.5" "1.54"	NA "1.64" "2.85" "2.95" "2.05" "1.21" "1.6"	"2" "1.85" "3.58" "2.7" "2.4" "1.68" "1.7"	"2.15" "1.5" "1.87" "2.3" "2" "1.72" NA	"2.45" "1.6" "1.85" "2.42" "1.9" "1.9" NA
## ## ## ## ## ##	[4103] [4110] [4117] [4124] [4131] [4138] [4145]	"2.87" "1.9" "1.9" "2.35" "1.64" "2.2" "2.56"	"2.23" "1.8" "2.7" "2.25" "1.8" "2.4" "1.97"	"1.6" "3.2" "1.78" "2.08" "0.5" "1.54" "2.05"	NA "1.64" "2.85" "2.95" "2.05" "1.21" "1.6" "2.35"	"2" "1.85" "3.58" "2.7" "2.4" "1.68" "1.7" "2.22"	"2.15" "1.5" "1.87" "2.3" "2" "1.72" NA "1.52"	"2.45" "1.6" "1.85" "2.42" "1.9" "1.9" NA "1.48"
## ## ## ## ## ##	[4103] [4110] [4117] [4124] [4131] [4138] [4145] [4152]	"2.87" "1.9" "1.9" "2.35" "1.64" "2.2" "2.56" "1.3"	"2.23" "1.8" "2.7" "2.25" "1.8" "2.4" "1.97" NA	"1.6" "3.2" "1.78" "2.08" "0.5" "1.54" "2.05" NA	NA "1.64" "2.85" "2.95" "1.21" "1.6" "2.35" "1.05"	"2" "1.85" "3.58" "2.7" "2.4" "1.68" "1.7" "2.22" "1"	"2.15" "1.5" "1.87" "2.3" "2" "1.72" NA "1.52" "1.3"	"2.45" "1.6" "1.85" "2.42" "1.9" "1.9" NA "1.48" "1.1"
## ## ## ## ## ##	[4103] [4110] [4117] [4124] [4131] [4138] [4145] [4152] [4159]	"2.87" "1.9" "1.9" "2.35" "1.64" "2.2" "2.56" "1.3" "1.5"	"2.23" "1.8" "2.7" "2.25" "1.8" "2.4" "1.97" NA "2.2"	"1.6" "3.2" "1.78" "2.08" "0.5" "1.54" "2.05" NA "2.11"	NA "1.64" "2.85" "2.95" "2.05" "1.21" "1.6" "2.35" "1.05" "2.1"	"2" "1.85" "3.58" "2.7" "2.4" "1.68" "1.7" "2.22" "1" NA	"2.15" "1.5" "1.87" "2.3" "2" "1.72" NA "1.52" "1.3" NA	"2.45" "1.6" "1.85" "2.42" "1.9" "1.9" NA "1.48" "1.1" "1.9"
## ## ## ## ## ## ##	[4103] [4110] [4117] [4124] [4131] [4138] [4145] [4152] [4159] [4166]	"2.87" "1.9" "1.9" "2.35" "1.64" "2.2" "2.56" "1.3" "1.5" "1.6"	"2.23" "1.8" "2.7" "2.25" "1.8" "2.4" "1.97" NA "2.2" "1.8"	"1.6" "3.2" "1.78" "2.08" "0.5" "1.54" "2.05" NA "2.11" "1.45"	NA "1.64" "2.85" "2.95" "1.21" "1.6" "2.35" "1.05" "2.1" "1.54"	"2" "1.85" "3.58" "2.7" "2.4" "1.68" "1.7" "2.22" "1" NA "2.35"	"2.15" "1.5" "1.87" "2.3" "2" "1.72" NA "1.52" "1.3" NA "2.24"	"2.45" "1.6" "1.85" "2.42" "1.9" "1.9" NA "1.48" "1.1" "1.9" "2.5"
## ## ## ## ## ## ##	[4103] [4110] [4117] [4124] [4131] [4138] [4145] [4152] [4159] [4166] [4173]	"2.87" "1.9" "2.35" "1.64" "2.2" "2.56" "1.3" "1.5" "1.6" "2.3"	"2.23" "1.8" "2.7" "2.25" "1.8" "2.4" "1.97" NA "2.2" "1.8" "2.45"	"1.6" "3.2" "1.78" "2.08" "0.5" "1.54" "2.05" NA "2.11" "1.45" "1.25"	NA "1.64" "2.85" "2.95" "2.05" "1.21" "1.6" "2.35" "1.05" "2.1" "1.54" "1.25"	"2" "1.85" "3.58" "2.7" "2.4" "1.68" "1.7" "2.22" "1" NA "2.35" "1.3"	"2.15" "1.5" "1.87" "2.3" "2" "1.72" NA "1.52" "1.3" NA "2.24" "1.2"	"2.45" "1.6" "1.85" "2.42" "1.9" "1.9" NA "1.48" "1.1" "1.9" "2.5" "1.22"
## ## ## ## ## ## ##	[4103] [4110] [4117] [4124] [4131] [4138] [4145] [4152] [4159] [4166] [4173] [4180]	"2.87" "1.9" "1.9" "2.35" "1.64" "2.2" "2.56" "1.3" "1.5" "1.6" "2.3" "2.11"	"2.23" "1.8" "2.7" "2.25" "1.8" "2.4" "1.97" NA "2.2" "1.8" "2.45" "2.12"	"1.6" "3.2" "1.78" "2.08" "0.5" "1.54" "2.05" NA "2.11" "1.45" "1.25" "2.05"	NA "1.64" "2.85" "2.95" "2.05" "1.21" "1.6" "2.35" "1.05" "2.1" "1.54" "1.25" "0.96"	"2" "1.85" "3.58" "2.7" "2.4" "1.68" "1.7" "2.22" "1" NA "2.35" "1.3" "2.2"	"2.15" "1.5" "1.87" "2.3" "2" "1.72" NA "1.52" "1.3" NA "2.24" "1.2" "1"	"2.45" "1.6" "1.85" "2.42" "1.9" "1.9" NA "1.48" "1.1" "1.9" "2.5" "1.22" "1.1"
## ## ## ## ## ## ## ##	[4103] [4110] [4117] [4124] [4131] [4138] [4145] [4152] [4159] [4166] [4173] [4180] [4187]	"2.87" "1.9" "1.9" "2.35" "1.64" "2.2" "2.56" "1.3" "1.5" "1.6" "2.3" "2.11" "1.05"	"2.23" "1.8" "2.7" "2.25" "1.8" "2.4" "1.97" NA "2.2" "1.8" "2.45" "2.12" "1.98"	"1.6" "3.2" "1.78" "2.08" "0.5" "1.54" "2.05" NA "2.11" "1.45" "1.25" "2.05" "0.95"	NA "1.64" "2.85" "2.95" "1.21" "1.6" "2.35" "1.05" "2.1" "1.54" "1.25" "0.96" "3.4"	"2" "1.85" "3.58" "2.7" "2.4" "1.68" "1.7" "2.22" "1" NA "2.35" "1.3" "2.2" "2.8"	"2.15" "1.5" "1.87" "2.3" "2" "1.72" NA "1.52" "1.3" NA "2.24" "1.2" "1" "2.65"	"2.45" "1.6" "1.85" "2.42" "1.9" "1.9" NA "1.48" "1.1" "1.9" "2.5" "1.22" "1.1" "2.3"
## ## ## ## ## ## ## ##	[4103] [4110] [4117] [4124] [4131] [4138] [4145] [4152] [4159] [4166] [4173] [4180] [4187] [4194]	"2.87" "1.9" "1.9" "2.35" "1.64" "2.2" "2.56" "1.3" "1.5" "1.6" "2.3" "2.11" "1.05" "3.15"	"2.23" "1.8" "2.7" "2.25" "1.8" "2.4" "1.97" NA "2.2" "1.8" "2.45" "2.12" "1.98" "2.4"	"1.6" "3.2" "1.78" "2.08" "0.5" "1.54" "2.05" NA "2.11" "1.45" "1.25" "2.05" "0.95" "2.12"	NA "1.64" "2.85" "2.95" "1.21" "1.6" "2.35" "1.05" "2.1" "1.54" "1.25" "0.96" "3.4" "2.8"	"2" "1.85" "3.58" "2.7" "2.4" "1.68" "1.7" "2.22" "1" NA "2.35" "1.3" "2.2" "2.8"	"2.15" "1.5" "1.87" "2.3" "2" "1.72" NA "1.52" "1.3" NA "2.24" "1.2" "1" "2.65" "3.58"	"2.45" "1.6" "1.85" "2.42" "1.9" "1.9" NA "1.48" "1.1" "1.9" "2.5" "1.22" "1.1" "2.3" "2.15"
## ## ## ## ## ## ## ## ##	[4103] [4110] [4117] [4124] [4131] [4138] [4145] [4152] [4159] [4166] [4173] [4180] [4187] [4194] [4201]	"2.87" "1.9" "1.9" "2.35" "1.64" "2.2" "2.56" "1.3" "1.5" "1.6" "2.3" "2.11" "1.05" "3.15" "2.1"	"2.23" "1.8" "2.7" "2.25" "1.8" "2.4" "1.97" NA "2.2" "1.8" "2.45" "2.45" "2.42" "1.98" "2.4" "2.2"	"1.6" "3.2" "1.78" "2.08" "0.5" "1.54" "2.05" NA "2.11" "1.45" "1.25" "2.05" "0.95" "2.12" "2.4"	NA "1.64" "2.85" "2.95" "1.21" "1.6" "2.35" "1.05" "2.1" "1.54" "1.25" "0.96" "3.4" "2.8" "2.92"	"2" "1.85" "3.58" "2.7" "2.4" "1.68" "1.7" "2.22" "1" NA "2.35" "1.3" "2.2" "2.8" "3" "2.95"	"2.15" "1.5" "1.87" "2.3" "2" "1.72" NA "1.52" "1.3" NA "2.24" "1.2" "1" "2.65" "3.58" "3.1"	"2.45" "1.6" "1.85" "2.42" "1.9" "1.9" NA "1.48" "1.1" "1.9" "2.5" "1.12" "1.1" "2.3" "2.15" "3.1"
## ## ## ## ## ## ## ## ##	[4103] [4110] [4117] [4124] [4131] [4138] [4145] [4152] [4159] [4166] [4173] [4180] [4187] [4180] [4187] [4201] [4208]	"2.87" "1.9" "1.9" "2.35" "1.64" "2.2" "2.56" "1.3" "1.5" "1.6" "2.3" "2.11" "1.05" "3.15" "2.1" "3.2"	"2.23" "1.8" "2.7" "2.25" "1.8" "2.4" "1.97" NA "2.2" "1.8" "2.45" "2.45" "2.42" "1.98" "2.4" "2.2" "3.64"	"1.6" "3.2" "1.78" "2.08" "0.5" "1.54" "2.05" NA "2.11" "1.45" "1.25" "2.05" "0.95" "2.12" "2.4" "1.45"	NA "1.64" "2.85" "2.95" "1.21" "1.6" "2.35" "1.05" "2.1" "1.54" "1.25" "0.96" "3.4" "2.8" "2.92" "1.45"	"2" "1.85" "3.58" "2.7" "2.4" "1.68" "1.7" "2.22" "1" NA "2.35" "1.3" "2.2" "2.8" "3" "2.95" "2.6"	"2.15" "1.5" "1.87" "2.3" "2" "1.72" NA "1.52" "1.3" NA "2.24" "1.2" "1" "2.65" "3.58" "3.1" "1.7"	"2.45" "1.6" "1.85" "2.42" "1.9" "1.9" NA "1.48" "1.1" "1.9" "2.5" "1.22" "1.1" "2.3" "2.15" "3.1" "2.42"
######################################	[4103] [4110] [4117] [4124] [4131] [4138] [4145] [4152] [4159] [4166] [4173] [4180] [4187] [4194] [4201] [4208] [4215]	"2.87" "1.9" "2.35" "1.64" "2.2" "2.56" "1.3" "1.5" "1.6" "2.3" "2.11" "1.05" "3.15" "2.1" "3.2" "2.54"	"2.23" "1.8" "2.7" "2.25" "1.8" "2.4" "1.97" NA "2.2" "1.8" "2.45" "2.12" "1.98" "2.4" "2.2" "3.64" "2.65"	"1.6" "3.2" "1.78" "2.08" "0.5" "1.54" "2.05" NA "2.11" "1.45" "1.25" "2.05" "0.95" "2.12" "2.4" "1.45" "2.6"	NA "1.64" "2.85" "2.95" "1.21" "1.6" "2.35" "1.05" "2.1" "1.54" "1.25" "0.96" "3.4" "2.8" "2.92" "1.45"	"2" "1.85" "3.58" "2.7" "2.4" "1.68" "1.7" "2.22" "1" NA "2.35" "1.3" "2.21" "2.8" "3." "2.95" "2.6" "3.1"	"2.15" "1.5" "1.87" "2.3" "2" "1.72" NA "1.52" "1.3" NA "2.24" "1.2" "1" "2.65" "3.58" "3.1" "1.7" "2.54"	"2.45" "1.6" "1.85" "2.42" "1.9" "1.9" NA "1.48" "1.1" "2.5" "1.22" "1.1" "2.3" "2.15" "3.1" "2.42" "2.75"
# # # # # # # # # # # # # # # # # # #	[4103] [4110] [4117] [4124] [4131] [4138] [4145] [4152] [4159] [4159] [4166] [4173] [4180] [4187] [4194] [4201] [4208] [4201] [4202]	"2.87" "1.9" "2.35" "1.64" "2.2" "2.56" "1.3" "1.5" "1.6" "2.3" "2.11" "1.05" "3.15" "2.1" "3.2" "2.54" "2.5"	"2.23" "1.8" "2.7" "2.25" "1.8" "2.4" "1.97" NA "2.2" "1.8" "2.45" "2.12" "1.98" "2.4" "2.2" "3.64" "2.65" "2.5"	"1.6" "3.2" "1.78" "2.08" "0.5" "1.54" "2.05" NA "2.11" "1.45" "1.25" "2.05" "0.95" "2.12" "2.4" "1.45" "2.6" "2.78"	NA "1.64" "2.85" "2.95" "1.21" "1.6" "2.35" "1.05" "1.54" "1.54" "1.25" "0.96" "3.4" "2.8" "2.92" "1.45" "2.15" "2.55"	"2" "1.85" "3.58" "2.7" "2.4" "1.68" "1.7" "2.22" "1" NA "2.35" "1.3" "2.2" "2.8" "3" "2.95" "2.6" "3.1" "2.7"	"2.15" "1.5" "1.87" "2.3" "2" "1.72" NA "1.52" "1.3" NA "2.24" "1.2" "1" "2.65" "3.58" "3.1" "1.7" "2.54" "2.9"	"2.45" "1.6" "1.85" "2.42" "1.9" "1.9" NA "1.48" "1.1" "2.5" "1.22" "1.1" "2.3" "2.15" "3.1" "2.42" "2.75" "2.55"
######################################	[4103] [4110] [4117] [4124] [4131] [4138] [4145] [4152] [4159] [4166] [4173] [4180] [4187] [4194] [4201] [4201] [4201] [4202] [4215] [4222] [4229]	"2.87" "1.9" "1.9" "2.35" "1.64" "2.2" "2.56" "1.3" "1.5" "1.6" "2.3" "2.11" "1.05" "3.15" "2.1" "3.2" "2.54" "2.59"	"2.23" "1.8" "2.7" "2.25" "1.8" "2.4" "1.97" NA "2.2" "1.8" "2.45" "2.45" "2.45" "2.65" "2.65" "2.5" "0.96"	"1.6" "3.2" "1.78" "2.08" "0.5" "1.54" "2.05" NA "2.11" "1.45" "1.25" "2.05" "0.95" "2.12" "2.4" "1.45" "2.6" "2.78" "1.1"	NA "1.64" "2.85" "2.95" "1.21" "1.6" "2.35" "1.05" "2.1" "1.54" "1.25" "0.96" "3.4" "2.8" "2.92" "1.45" "2.15" "2.55" "1.1"	"2" "1.85" "3.58" "2.7" "2.4" "1.68" "1.7" "2.22" "1" NA "2.35" "1.3" "2.2" "2.8" "3" "2.6" "3.1" "2.7" "0.9"	"2.15" "1.5" "1.87" "2.3" "2" "1.72" NA "1.52" "1.3" NA "2.24" "1.2" "1" "2.65" "3.58" "3.1" "1.7" "2.54" "2.9" "1.65"	"2.45" "1.6" "1.85" "2.42" "1.9" "1.9" "1.48" "1.1" "1.9" "2.5" "1.22" "1.1" "2.3" "2.15" "3.1" "2.42" "2.75" "3.62"
######################################	[4103] [4110] [4117] [4124] [4131] [4138] [4145] [4152] [4159] [4166] [4173] [4180] [4187] [4180] [4201] [4201] [4201] [4202] [4222] [4222] [4229] [4236]	"2.87" "1.9" "1.9" "2.35" "1.64" "2.2" "2.56" "1.3" "1.5" "1.6" "2.3" "2.11" "1.05" "3.15" "2.1" "3.2" "2.54" "2.54" "2.599" "3.45"	"2.23" "1.8" "2.7" "2.25" "1.8" "2.4" "1.97" NA "2.2" "1.8" "2.45" "2.45" "2.45" "2.55" "3.64" "2.65" "2.55" "0.96" "3.9"	"1.6" "3.2" "1.78" "2.08" "0.5" "1.54" "2.05" NA "2.11" "1.45" "2.05" "0.95" "2.12" "2.4" "1.45" "2.6" "2.78" "1.1" "4"	NA "1.64" "2.85" "2.95" "1.21" "1.6" "2.35" "1.05" "1.54" "1.25" "0.96" "3.4" "2.8" "2.92" "1.45" "2.15" "2.55" "1.1" "4.2"	"2" "1.85" "3.58" "2.7" "2.4" "1.68" "1.7" "2.22" "1" NA "2.35" "1.3" "2.2" "2.8" "3." "2.95" "2.6" "3.1" "2.7" "0.9" "1.8"	"2.15" "1.5" "1.87" "2.3" "2" "1.72" NA "1.52" "1.3" NA "2.24" "1.2" "1" "2.65" "3.58" "3.1" "1.7" "2.54" "2.9" "1.65" "1.85"	"2.45" "1.6" "1.85" "2.42" "1.9" "1.9" NA "1.48" "1.1" "2.5" "1.22" "1.1" "2.3" "2.15" "3.1" "2.42" "2.75" "3.62" "2.6"
######################################	[4103] [4110] [4117] [4124] [4131] [4138] [4145] [4152] [4159] [4166] [4173] [4180] [4187] [4194] [4201] [4208] [4215] [4222] [4229] [4236] [4243]	"2.87" "1.9" "1.9" "2.35" "1.64" "2.2" "2.56" "1.3" "1.5" "1.6" "2.3" "2.11" "1.05" "3.15" "2.1" "3.2" "2.54" "2.54" "2.59" "3.45" "3.1"	"2.23" "1.8" "2.7" "2.25" "1.8" "2.4" "1.97" NA "2.2" "1.8" "2.45" "2.45" "2.42" "1.98" "2.4" "2.5" "0.96" "3.9" "3.03"	"1.6" "3.2" "1.78" "2.08" "0.5" "1.54" "2.05" NA "2.11" "1.45" "2.05" "0.95" "2.12" "2.4" "1.45" "2.6" "2.78" "1.1" "4" "2.85"	NA "1.64" "2.85" "2.95" "1.21" "1.6" "2.35" "1.05" "1.54" "1.54" "1.25" "0.96" "3.4" "2.8" "2.92" "1.45" "2.55" "1.1" "4.2" "3.8"	"2" "1.85" "3.58" "2.7" "2.4" "1.68" "1.7" "2.22" "1" NA "2.35" "1.3" "2.2" "2.8" "3." "2.95" "2.6" "3.1" "2.7" "0.9" "1.8"	"2.15" "1.5" "1.87" "2.3" "2" "1.72" NA "1.52" "1.3" NA "2.24" "1.2" "1" "2.65" "3.58" "3.1" "1.7" "2.54" "2.9" "1.65" "1.85" "4.35"	"2.45" "1.6" "1.85" "2.42" "1.9" "1.9" NA "1.48" "1.1" "2.5" "1.12" "2.3" "2.15" "3.1" "2.42" "2.75" "2.55" "3.62" "2.6" "4.29"
###########################	[4103] [4110] [4117] [4124] [4131] [4138] [4145] [4152] [4159] [4166] [4173] [4180] [4187] [4194] [4201] [4208] [4215] [4222] [4223] [4223] [4236] [4243] [4250]	"2.87" "1.9" "1.9" "2.35" "1.64" "2.2" "2.56" "1.3" "1.5" "1.6" "2.3" "2.11" "1.05" "3.15" "2.1" "3.2" "2.54" "2.54" "2.59" "3.45" "3.1" "3.62"	"2.23" "1.8" "2.7" "2.25" "1.8" "2.4" "1.97" NA "2.2" "1.8" "2.45" "2.12" "1.98" "2.45" "2.5" "0.96" "3.9" "3.03" "3.6"	"1.6" "3.2" "1.78" "2.08" "0.5" "1.54" "2.05" NA "2.11" "1.45" "2.05" "0.95" "2.12" "2.4" "1.45" "2.6" "2.78" "1.1" "4" "2.85"	NA "1.64" "2.85" "2.95" "1.21" "1.6" "2.35" "1.05" "2.1" "1.54" "1.25" "0.96" "3.4" "2.8" "2.92" "1.45" "2.15" "2.15" "4.2" "3.8" "4.6"	"2" "1.85" "3.58" "2.7" "2.4" "1.68" "1.7" "2.22" "1" NA "2.35" "1.3" "2.2" "2.8" "3." "2.95" "2.6" "3.1" "2.7" "0.9" "1.8" "4.41"	"2.15" "1.5" "1.87" "2.3" "2" "1.72" NA "1.52" "1.3" NA "2.24" "1.2" "1" "2.65" "3.58" "3.1" "1.7" "2.54" "2.9" "1.65" "1.85" "4.35" "2.23"	"2.45" "1.6" "1.85" "2.42" "1.9" "1.9" "1.48" "1.1" "1.9" "2.5" "1.12" "1.1" "2.3" "2.15" "3.1" "2.42" "2.75" "2.55" "3.62" "2.66" "4.29" "2.4"
# # # # # # # # # # # # # # # # # # #	[4103] [4110] [4117] [4124] [4131] [4138] [4145] [4152] [4159] [4166] [4173] [4180] [4187] [4201] [4201] [4203] [4215] [4222] [4222] [4229] [4236] [4243] [4250] [4257]	"2.87" "1.9" "1.9" "2.35" "1.64" "2.2" "2.56" "1.3" "1.5" "1.6" "2.3" "2.11" "1.05" "3.15" "2.1" "3.2" "2.54" "2.54" "2.59" "3.45" "3.62" "2.8"	"2.23" "1.8" "2.7" "2.25" "1.8" "2.4" "1.97" NA "2.2" "1.8" "2.45" "2.12" "1.98" "2.44" "2.2" "3.64" "2.65" "2.5" "0.96" "3.9" "3.03" "3.6" "2.6"	"1.6" "3.2" "1.78" "2.08" "0.5" "1.54" "2.05" NA "2.11" "1.45" "2.05" "0.95" "2.12" "2.4" "1.45" "2.6" "2.78" "1.1" "4" "2.85" "4.2" "2.65"	NA "1.64" "2.85" "2.95" "1.21" "1.6" "2.35" "1.05" "2.1" "1.54" "1.25" "0.96" "3.4" "2.8" "2.92" "1.45" "2.15" "2.15" "4.6" "3.8" "4.6" "2.05"	"2" "1.85" "3.58" "2.7" "2.4" "1.68" "1.7" "2.22" "1" NA "2.35" "1.3" "2.25" "2.8" "3.1" "2.95" "2.6" "3.1" "2.7" "0.9" "1.8" "4.41" "2"	"2.15" "1.5" "1.87" "2.3" "2" "1.72" NA "1.52" "1.3" NA "2.24" "1.2" "1" "2.65" "3.58" "3.1" "1.7" "2.54" "2.9" "1.65" "1.85" "4.35" "2.23" "2.3"	"2.45" "1.6" "1.85" "2.42" "1.9" "1.9" NA "1.48" "1.1" "2.5" "1.22" "1.1" "2.31" "2.42" "2.75" "2.55" "3.62" "4.29" "2.4" "2.8"
###########################	[4103] [4110] [4117] [4124] [4131] [4138] [4145] [4152] [4159] [4166] [4173] [4180] [4187] [4194] [4201] [4208] [4215] [4222] [4223] [4223] [4236] [4243] [4250]	"2.87" "1.9" "2.35" "1.64" "2.2" "2.56" "1.3" "1.5" "1.6" "2.3" "2.11" "1.05" "3.15" "2.1" "3.254" "2.54" "2.59" "3.45" "3.62" "2.8" "3.06"	"2.23" "1.8" "2.7" "2.25" "1.8" "2.4" "1.97" NA "2.2" "1.8" "2.45" "2.12" "1.98" "2.45" "2.5" "0.96" "3.9" "3.03" "3.6"	"1.6" "3.2" "1.78" "2.08" "0.5" "1.54" "2.05" NA "2.11" "1.45" "2.05" "0.95" "2.12" "2.4" "1.45" "2.6" "2.78" "1.1" "4" "2.85"	NA "1.64" "2.85" "2.95" "1.21" "1.6" "2.35" "1.05" "2.1" "1.54" "1.25" "0.96" "3.4" "2.8" "2.92" "1.45" "2.15" "2.15" "4.2" "3.8" "4.6"	"2" "1.85" "3.58" "2.7" "2.4" "1.68" "1.7" "2.22" "1" NA "2.35" "1.3" "2.2" "2.8" "3." "2.95" "2.6" "3.1" "2.7" "0.9" "1.8" "4.41"	"2.15" "1.5" "1.87" "2.3" "2" "1.72" NA "1.52" "1.3" NA "2.24" "1.2" "1" "2.65" "3.58" "3.1" "1.7" "2.54" "2.9" "1.65" "1.85" "4.35" "2.23"	"2.45" "1.6" "1.85" "2.42" "1.9" "1.9" "1.48" "1.1" "1.9" "2.5" "1.12" "1.1" "2.3" "2.15" "3.1" "2.42" "2.75" "2.55" "3.62" "2.66" "4.29" "2.4"

##	[4278]	11011	"2.31"	"4.19"	"3.84"	"3.95"	"3.6"	"4.24"
			"3"	"3.4"	"3.04"	"3.95"	"2.01"	"2.15"
	[4285]							
	[4292]	"2.3"	"2.2"	"2.64"	"1.93"	"1.9"	"1.95"	"2.1"
	[4299]	"2.36"	"2.57"	"1.85"	"3.1"	"3"	"3.35"	"2.75"
	[4306]	"2.55"	"2.55"	"2.5"	"2.53"	"1.84"	"2"	"1.95"
	[4313]	"2"	"1.85"	"2.18"	"2.05"	"2.1"	"2"	"1.97"
	[4320]	"2.05"	"2.55"	"1.85"	"2.2"	"4.66"	"2.34"	"2.25"
	[4327]	"2.85"	"2.4"	"3.27"	"2.12"	"2.9"	"2"	"3.1"
##	[4334]	"4.45"	"1.81"	"1.85"	"1.95"	"2"	"2.35"	"2.39"
##	[4341]	"2.1"	"2"	"2.2"	"2.83"	"1.5"	"1.65"	"1.6"
##	[4348]	"1.7"	"2.27"	"1.4"	"1.35"	"1.6"	"1.75"	"2.1"
##	[4355]	"1.85"	"2.62"	"2.15"	"2.15"	"2.28"	"1.04"	"1.15"
##	[4362]	"1.4"	"1.4"	"1.91"	"1.9"	"1.85"	"2"	"2"
##	[4369]	"2.16"	"1.18"	"1.3"	"1.4"	"1.4"	"1.64"	"1.47"
##	[4376]	"1.45"	"1.6"	"1.75"	"2.3"	"1.67"	"1.6"	"1.7"
##	[4383]	"2.1"	"2.65"	"1.6"	"1.65"	"1.7"	"1.95"	"2.58"
##	[4390]	"1.14"	"1.1"	"1.1"	"0.6"	"1.21"	"5.92"	"6"
##	[4397]	"5.7"	"5.1"	"5.83"	"3.14"	"3.6"	"4.2"	"3.7"
##	[4404]	"3.99"	"3.56"	"3.8"	"4.2"	"3.8"	"3.63"	"2.6"
##	[4411]	"2.6"	"2.8"	"3"	"3.38"	"2.3"	"2.25"	"2.9"
##	[4418]	"3.3"	"MISSING"	"3.1"	"3.25"	"3.85"	"4"	"4.38"
##	[4425]	"2.5"	"2.47"	"2.85"	"2.65"	"2.42"	"2.1"	"2.14"
##	[4432]	"3.43"	"3.6"	"MISSING"		"2.55"	"3.37"	"3.5"
##	[4439]	"3.85"	"1.5"	"1.62"	"1.8"	"1.7"	"2.33"	"1.8"
##	[4446]	"1.72"	"1.89"	"1.8"	"2.4"	"1.85"	"1.82"	"2"
##	[4453]	"2"	"2.35"	"2.1"	"2.15"	"3.39"	"3.42"	"3.7"
##	[4460]	"1.45"	"1.25"	"2.19"	"3.75"	"1.69"	"1.85"	"2.15"
##	[4467]	"2.85"	"3.1"	"2.98"	"2.15"	"2.35"	"2.79"	"2.75"
##	[4474]	"3.39"	"3"	"2.9"	"3.87"	"3.8"	"4.05"	"2.15"
##	[4481]	"2.2"	"2.37"	"2.45"	"3.1"	"2.6"	"2.51"	"2.85"
##	[4488]	"2.4"	"2.98"	"1.45"	"1.55"	"1.8"	"1.8"	"2.1"
##	[4495]	"2.5"	"3"	"3.07"	"3.49"	"3.53"	"2.15"	"2.49"
##	[4493]	"2.97"	"3.1"	"2.83"	"2.05"	"2.6"	"2.82"	"3"
##	[4502]	"3.67"	"2.3"	"2.9"	"3.1"	"3.35"	"3.8"	"1.5"
	[4509]	"1.65"	"2.29"	"1.8"	"2.49"	"2.1"	"2.1"	"2.98"
##	[4516]	"2.95"	"3.18"	"2.5"	"2.49"	"2.25"	"2.35"	"2.23"
##								"1.8"
##	[4530]	"3.25"	"3.35"	"3.6"	"4"	"3.68"	"2.32" "2.87"	
##	[4537]	"2.25"	"2.4"	"MISSING"	"2.37"	"1.9"		"2.2"
##	[4544]	"2.23"	"2.15"	"2.25"	"2.5"	"2.2"	"2.55"	"1.5"
##	[4551]	"1.62"	"1.75"	"1.6"	"1.86"	"2.05"	"2"	"2.7"
##	[4558]	"2.42"	"2.52"	"2.64"	"2.9"	"2.88"	"2.9"	"2.87"
##	[4565]	"1.4"	"1.55"	"1.5"	"1.7"	"2.06"	"1.35"	"1.25"
##	[4572]	"1.2"	"1.6"	"1.87"	"1.5"	"1.5"	"1.7"	"1.7"
##	[4579]	"1.79"	"1.9"	"2.1"	"2.25"	"2.1"	"2.39"	"2.1"
##	[4586]	"2.15"	"2.3"	"2.06"	"2.18"	"1.9"	"1.75"	"1.75"
##	[4593]	"1.7"	"1.79"	"1.42"	"1.6"	"1.7"	"1.7"	"1.77"
##	[4600]	"1.84"	"1.7"	"2.05"	"1.9"	"2.09"	"1.9"	"1.82"
##	[4607]	"2.37"	"1.95"	"1.98"	"1.35"	"1.25"	"1.4"	"1.45"
##	[4614]	"1.1"	"2.54"	"3.31"	"3.16"	"3.65"	"3.78"	"4.17"
##	[4621]	"4.4"	"4.72"	"4.55"	"4.1"	"3.12"	"3.55"	"4"
##	[4628]	"4"	"4.09"	"3.6"	"3.9"	"3.99"	"3.2"	"3.34"
##	[4635]	"1.9"	"2.52"	"2.45"	"2.25"	"2.71"	"3.81"	"4.02"
##	[4642]	"4.89"	"4.3"	"4.53"	"4.67"	"5.1"	"4.84"	"4.25"
##	[4649]	"4.8"	"3.44"	"3.75"	"4.39"	"5.1"	"5.26"	"1.45"

	[40 <u></u> [0]	"4 05"		"4 55"	"4 50"			
	[4656]		"1.4"	"1.55"	"1.59"	"3.14"	"3.92"	"4.6"
	[4663]		"5.12"	"2.5"	"2.85"	"3.55"	"3.52"	"4.19"
##	[4670]		"1.72"	"1.6"	"1.75"	"2.23"	"2"	"2.05"
##	[4677]	"2.3"	"2.35"	"2.99"	"1.84"	"1.94"	"2.6"	"3.2"
##	[4684]	"2.75"	"2.34"	"2.5"	"2.9"	"3.25"	"3.55"	"2.4"
##	[4691]	"2.35"	"2.5"	"2.4"	"2.91"	"2.44"	"2.55"	"3"
##	[4698]	"2.8"	"3.46"	"1.4"	"1.45"	"1.5"	"1.6"	"2.07"
##	[4705]	"3.35"	"3.45"	"3.5"	"3.1"	"4.05"	"1.9"	"1.89"
##	[4712]	"2.1"	"2.07"	"2.62"	"2.7"	"2.72"	"2.9"	"3.15"
	[4719]	"3.65"	"3.05"	"2.84"	"2.9"	NA	NA	"3.25"
	[4726]	"3.05"	"3.6"	"3"	"4.07"	"3.8"	"3.85"	"4.3"
	[4733]	"4.7"	"4.58"	"2.24"	"1.6"	"2.55"	"2.8"	"3.1"
	[4740]	"4.05"	"4.17"	"4.45"	"4.95"	"2.77"	"3.9"	"4"
							"3.2"	
	[4747]	"4.1"	"3.6"	"4.2"	"2.8"	"3.05"		"3.2"
		"3.44"	"1.9"	"1.65"	"1.9"	"1.65"	"1.9"	"1.5"
	[4761]	"1.45"	"1.6"	NA	NA	"2.8"	"2.07"	"2.9"
	[4768]	"2.05"	"2.82"	"2.2"	"2.3"	"2.34"	"2.35"	"2.78"
##	[4775]	"3.5"	"3.47"	"3.8"	"3.98"	"4.5"	"2.55"	"2.57"
##	[4782]	"2.9"	"2.95"	"3.68"	"1.43"	"1.7"	"2"	"1.95"
##	[4789]	"1.98"	"1.1"	"0.95"	"2.1"	"1.9"	"2.44"	"1.5"
##	[4796]	"1.5"	"1.9"	"1.59"	"2.43"	"1.8"	"1.75"	"1.8"
##	[4803]	NA	NA	"1.8"	"1.85"	"1.95"	"1.9"	"2.23"
##	[4810]	"2.4"	"2.65"	"3.2"	"3.1"	"3.02"	"1.43"	"1.55"
##	[4817]		"1.6"	"1.65"	"2"	"2.1"	"2.4"	"2.22"
	[4824]	"2.3"	"3"	"3.13"	"3.35"	"2.95"	"3.32"	"1.8"
	[4831]	"1.6"	"2.1"	"2"	"2.19"	"2.35"	"2.7"	"3.1"
	[4838]	"2.9"	"2.95"	"1.34"	"1.4"	"1.6"	"1.7"	"2.15"
	[4845]	"1.25"	"1.3"	"1.6"	"1.85"	"2.23"	"2.45"	"2.02"
	[4852]	"2.55"	"2.35"	"3.01"	"2.62"	"3"	"3.2"	"3"
	[4859]	"2.93"	"4.5"	"5.1"	"5"	"4.75"	"4.6"	"3.4"
	[4866]		"4.6"	"4.55"	NA	"3.2"	"3.6"	"3.8"
	[4873]	"3.75"	"4.17"	"1.43"	"1.45"	"1.9"	"1.85"	"2.12"
	[4880]	"2.24"	"2.24"	"2.55"	"2.65"	"3.05"	"1.55"	"1.55"
##	[4887]	NA	"0.4"	"0.5"	"1.8"	"1.95"	"1.89"	"2.25"
##	[4894]	"2.89"	"1.72"	"1.75"	"1.85"	"1.8"	"0.71"	"2.6"
	[4901]	"2.7"	"3.19"	"3.65"	"3.75"	"1.5"	"1.64"	"2.19"
##	[4908]	"2.1"	"2.08"	"1.39"	"1.4"	"1.9"	"3.65"	"3.83"
##	[4915]	"1.9"	"1.95"	"2"	"1.95"	"2.25"	"1.84"	"1.9"
##	[4922]	"2.35"	"2.45"	"2.9"	"2.05"	"1.8"	"2.3"	"1.96"
##	[4929]	NA	"1.75"	"2.2"	NA	NA	NA	"1.31"
##	[4936]	"1.1"	"1.5"	"1.6"	"1.73"	"1.15"	"1"	"1.2"
##	Γ4943]	"1.4"	"0.85"	"1.94"	"1.3"	"2.47"	"2.6"	"2.65"
##	[4950]	"2.25"	"2"	"2.26"	NA	NA	"1.95"	"2"
##	[4957]	"2.3"	"1.56"	"1.25"	"1.8"	"1.6"	"1.8"	"1.7"
		"1.7"	"2.15"	"2"	"1.74"	"1.7"	"2.2"	"1.7"
	[4971]		"1.85"	"1.72"	"2.25"	"1.95"	"2.54"	"2.48"
		"2.05"	"2.4"	"1.92"	"1.65"	"1.85"	"2.1"	"1.75"
	[4985]	"1.85"	"1.84"	"1.95"	"2.9"	"2.45"	"1.42"	"1.8"
	[4992]	"1.4"	"1.45"	"1.79"	"1.35"	"1.72"	"1.88"	NA
	[4999]	"MISSING"		"2.3"	"3.38"	"3.33"	"3.05"	"2.34"
	[5006]	"1.9"	"2.23"	"2.29"	"2.1"	"1.84"	"1.9"	"2.38"
	[5013]	"2.3"	"2.05"	"2.27"	"2.25"	"2.27"	"1.62"	"1.39"
	[5020]	"2"	"1.92"	"1.52"	"2.05"	"1.82"	"1.82"	"2"
##	[5027]	"1.62"	NA	NA	"1.42"	"1.55"	"1.28"	"1.45"

	[5034]		"1.34"	"1.5"	"2.1"	"1.96"	"2.18"	"2.35"
	[5041]		"2.85"	"2.8"	"2.89"	"1.85"	"1.6"	"1.95"
	[5048]		"0.63"	"1.45"	"1.45"	"1.6"	"1.49"	"1.51"
	[5055]		"1"	"1.35"	"1.1"	"1.5"	"1.42"	"1"
	[5062]		"1"	"1.35"	"1.32"	"1.4"	"1.4"	"1.36"
	[5069]		"2.52"	"2.46"	"2.85"	"2.62"	"2.7"	"1.9"
	[5076]		"2.22"	"2.05"	"3"	"3.05"	"3.3"	"3.35"
	[5083]		"3.75"	"4.9"	"5.3"	"6.01"	"5.54"	"6.08"
	[5090]		"3.8"	"3.82"	"3.36"	"3.24"	"2.8"	"2.8"
##	[5097]	"3.1"	"2.8"	"3.55"	"1.4"	"1.5"	"1.6"	"1.45"
	[5104]		"2.59"	"2.55"	"2.65"	"2.25"	"3"	"1.1"
	[5111]		"1.25"	"1.45"	"1.59"	"1.89"	"1.84"	"2.45"
##	[5118]	"1.9"	"2.8"	"2.54"	"2.45"	"2.7"	"2.5"	"3.05"
##	[5125]	"1.4"	"1.5"	"1.6"	"1.4"	"1.43"	"2.37"	"2.8"
##	[5132]	"2.55"	"2.5"	"3.15"	"1.92"	"1.85"	"1.85"	"1.84"
##	[5139]	"1.75"	"1.74"	"1.75"	"1.84"	"1.65"	"1.95"	"3.95"
##	[5146]	"3.53"	"3.6"	"3.15"	"3.5"	"3.64"	"3.4"	"3.35"
##	[5153]	"3.1"	"4.15"	"2.79"	"2.9"	"3.35"	"3.25"	"3.4"
##	[5160]	"3.58"	"3.6"	"3.45"	"3"	"3.85"	"2.56"	"2.4"
##	[5167]	"2.74"	"2.4"	"3"	"1.4"	"1.3"	"1.5"	"1.45"
##	[5174]	"1.82"	"1.8"	"1.6"	"2"	"1.6"	"1.8"	"2.57"
##	[5181]	"2.1"	"2.34"	"2.15"	"3.45"	"1.7"	"1.5"	"2.1"
##	[5188]	"1.6"	"1.95"	"2.81"	"2.9"	"3.2"	"2.45"	"2.95"
##	[5195]	"2.14"	"2.14"	"2.5"	"2.5"	"2.3"	"2.57"	"1.97"
##	[5202]	"1.95"	"1.87"	"2.15"	"1.4"	"1.7"	"1.95"	"2.1"
##	[5209]	"3.7"	"2.2"	"1.05"	"2.1"	"1.9"	"2.3"	"1.74"
##	[5216]	"1.75"	"2.05"	"2.22"	"3.12"	"2.2"	"2.65"	"2.32"
##	[5223]	"2.3"	NA	"2.2"	"2"	"2.45"	"2.1"	"2.49"
	[5223] [5230]	"2.3"	NA "1.9"		"2"		"2.1" "1.3"	
##	[5230]	"2.3"		"2.2"		"2.45"		"2.49"
## ##	[5230] [5237]	"2.3" "1.91" "1.4"	"1.9"	"2.2" "2.07"	"2"	"2.45" "2.52"	"1.3"	"2.49" "1.3"
## ## ##	[5230] [5237] [5244]	"2.3" "1.91" "1.4" "1.69"	"1.9" "1.2"	"2.2" "2.07" NA	"2" "1.15"	"2.45" "2.52" "1.1"	"1.3" "1.65"	"2.49" "1.3" "1"
## ## ## ##	[5230] [5237] [5244] [5251]	"2.3" "1.91" "1.4" "1.69" "1.4"	"1.9" "1.2" "1.3" "1.5"	"2.2" "2.07" NA "1.1" NA	"2" "1.15" "1.3" NA	"2.45" "2.52" "1.1" "1.44"	"1.3" "1.65" "2.02"	"2.49" "1.3" "1" "1.55"
## ## ## ##	[5230] [5237] [5244] [5251] [5258]	"2.3" "1.91" "1.4" "1.69" "1.4" "1.75"	"1.9" "1.2" "1.3" "1.5" "2.48"	"2.2" "2.07" NA "1.1" NA "2.52"	"2" "1.15" "1.3" NA "2.32"	"2.45" "2.52" "1.1" "1.44" "2.56" "2.2"	"1.3" "1.65" "2.02" "2.08"	"2.49" "1.3" "1" "1.55" "2.15"
## ## ## ## ##	[5230] [5237] [5244] [5251] [5258]	"2.3" "1.91" "1.4" "1.69" "1.4" "1.75" "1.4"	"1.9" "1.2" "1.3" "1.5" "2.48" "1.4"	"2.2" "2.07" NA "1.1" NA	"2" "1.15" "1.3" NA	"2.45" "2.52" "1.1" "1.44" "2.56"	"1.3" "1.65" "2.02" "2.08" "1.85"	"2.49" "1.3" "1" "1.55" "2.15" "2.23"
## ## ## ## ##	[5230] [5237] [5244] [5251] [5258] [5265] [5272]	"2.3" "1.91" "1.4" "1.69" "1.4" "1.75" "1.4" "1.87"	"1.9" "1.2" "1.3" "1.5" "2.48" "1.4"	"2.2" "2.07" NA "1.1" NA "2.52" "1.55" "2.35"	"2" "1.15" "1.3" NA "2.32" "1.35" "1.35"	"2.45" "2.52" "1.1" "1.44" "2.56" "2.2" "1.25" "1.1"	"1.3" "1.65" "2.02" "2.08" "1.85" "1.75"	"2.49" "1.3" "1" "1.55" "2.15" "2.23" "1.68"
## ## ## ## ## ##	[5230] [5237] [5244] [5251] [5258] [5265] [5272] [5279]	"2.3" "1.91" "1.4" "1.69" "1.4" "1.75" "1.4" "1.77"	"1.9" "1.2" "1.3" "1.5" "2.48" "1.4" "2" "1.7"	"2.2" "2.07" NA "1.1" NA "2.52" "1.55" "2.35" "1.7"	"2" "1.15" "1.3" NA "2.32" "1.35"	"2.45" "2.52" "1.1" "1.44" "2.56" "2.2" "1.25" "1.1" "1.55"	"1.3" "1.65" "2.02" "2.08" "1.85" "1.75" "1.5"	"2.49" "1.3" "1" "1.55" "2.15" "2.23" "1.68" "1.55" "1.4"
## ## ## ## ## ##	[5230] [5237] [5244] [5251] [5258] [5265] [5272]	"2.3" "1.91" "1.4" "1.69" "1.4" "1.75" "1.4" "1.77"	"1.9" "1.2" "1.3" "1.5" "2.48" "1.4" "2" "1.7"	"2.2" "2.07" NA "1.1" NA "2.52" "1.55" "2.35"	"2" "1.15" "1.3" NA "2.32" "1.35" "1.35" "1.55"	"2.45" "2.52" "1.1" "1.44" "2.56" "2.2" "1.25" "1.1"	"1.3" "1.65" "2.02" "2.08" "1.85" "1.75" "1.5" "1.77"	"2.49" "1.3" "1" "1.55" "2.15" "2.23" "1.68" "1.55"
## ## ## ## ## ##	[5230] [5237] [5244] [5251] [5258] [5265] [5272] [5279] [5286] [5293]	"2.3" "1.91" "1.4" "1.69" "1.4" "1.75" "1.4" "1.87" "1.77"	"1.9" "1.2" "1.3" "1.5" "2.48" "1.4" "2" "1.7" "1.7"	"2.2" "2.07" NA "1.1" NA "2.52" "1.55" "1.7" "1.45" "4.73"	"2" "1.15" "1.3" NA "2.32" "1.35" "1.35" "1.55" "1.58" "4.95"	"2.45" "2.52" "1.1" "1.44" "2.56" "2.2" "1.25" "1.1" "1.55" "4.95"	"1.3" "1.65" "2.02" "2.08" "1.85" "1.75" "1.5" "1.77" "3.85"	"2.49" "1.3" "1" "1.55" "2.15" "2.23" "1.68" "1.55" "1.4" "1.7"
## ## ## ## ## ## ##	[5230] [5237] [5244] [5251] [5258] [5265] [5272] [5279] [5286] [5293] [5300]	"2.3" "1.91" "1.4" "1.69" "1.4" "1.75" "1.4" "1.87" "1.77" "1.4" "1.6" "4.2"	"1.9" "1.3" "1.5" "2.48" "1.4" "2" "1.7" "1.7" "1.8"	"2.2" "2.07" NA "1.1" NA "2.52" "1.55" "2.35" "1.7" "1.45" "4.73" "3.74"	"2" "1.15" "1.3" NA "2.32" "1.35" "1.35" "1.55" "1.58" "4.95" "3.6"	"2.45" "2.52" "1.1" "1.44" "2.56" "2.2" "1.25" "1.1" "1.55" "1.55" "4.95" "3.8"	"1.3" "1.65" "2.02" "2.08" "1.85" "1.75" "1.5" "1.7" "3" "5"	"2.49" "1.3" "1" "1.55" "2.15" "2.23" "1.68" "1.55" "1.7" "5.25" NA
## ## ## ## ## ## ##	[5230] [5237] [5244] [5251] [5258] [5265] [5272] [5279] [5286] [5293] [5300] [5307]	"2.3" "1.91" "1.4" "1.69" "1.4" "1.75" "1.4" "1.87" "1.77" "1.4" "1.6" "4.2" NA	"1.9" "1.3" "1.5" "2.48" "1.4" "2" "1.7" "1.7" "1.8" "4.3" NA	"2.2" "2.07" NA "1.1" NA "2.52" "1.55" "2.35" "1.7" "1.45" "4.73" "3.74" "1.87"	"2" "1.15" "1.3" NA "2.32" "1.35" "1.35" "1.55" "1.58" "4.95" "3.6" "1.8"	"2.45" "2.52" "1.1" "1.44" "2.56" "2.2" "1.25" "1.1" "1.55" "4.95" "3.8" "1.8"	"1.3" "1.65" "2.02" "2.08" "1.85" "1.75" "1.5" "1.77" "3" "5" "1.75"	"2.49" "1.3" "1" "1.55" "2.15" "2.23" "1.68" "1.55" "1.4" "1.7" "5.25" NA "2.41"
## ## ## ## ## ## ## ##	[5230] [5237] [5244] [5251] [5258] [5265] [5272] [5279] [5286] [5293] [5300] [5307] [5314]	"2.3" "1.91" "1.4" "1.69" "1.4" "1.75" "1.4" "1.87" "1.4" "1.6" "4.2" NA "3.58"	"1.9" "1.3" "1.5" "2.48" "1.4" "2" "1.7" "1.7" "1.8" "4.3" NA "3.2"	"2.2" "2.07" NA "1.1" NA "2.52" "1.55" "2.35" "1.7" "1.45" "4.73" "3.74" "1.87"	"2" "1.15" "1.3" NA "2.32" "1.35" "1.35" "1.55" "1.58" "4.95" "3.6" "1.8"	"2.45" "2.52" "1.1" "1.44" "2.56" "2.2" "1.25" "1.1" "1.55" "4.95" "3.8" "1.8" "3.95"	"1.3" "1.65" "2.02" "2.08" "1.85" "1.75" "1.5" "1.7" "3" "5" "1.75" "3.59"	"2.49" "1.3" "1" "1.55" "2.15" "2.23" "1.68" "1.55" "1.4" "1.7" "5.25" NA "2.41" "3.5"
## ## ## ## ## ## ## ## ## ## ## ## ##	[5230] [5237] [5244] [5251] [5258] [5265] [5272] [5279] [5286] [5293] [5300] [5307] [5314] [5321]	"2.3" "1.91" "1.4" "1.69" "1.4" "1.75" "1.4" "1.87" "1.77" "1.4" "1.6" "4.2" NA "3.58" "4.45"	"1.9" "1.3" "1.5" "2.48" "1.4" "2" "1.7" "1.7" "1.8" "4.3" NA "3.2"	"2.2" "2.07" NA "1.1" NA "2.52" "1.55" "2.35" "1.7" "1.45" "4.73" "3.74" "1.87" "3.44" "4.58"	"2" "1.15" "1.3" NA "2.32" "1.35" "1.35" "1.55" "1.58" "4.95" "3.6" "1.8" "3.72"	"2.45" "2.52" "1.1" "1.44" "2.56" "2.2" "1.25" "1.55" "1.55" "4.95" "3.8" "1.8" "3.95" "2.5"	"1.3" "1.65" "2.02" "2.08" "1.85" "1.75" "1.5" "1.77" "3" "5" "1.75" "3.59" "3.85"	"2.49" "1.3" "1" "1.55" "2.15" "2.23" "1.68" "1.55" "1.4" "1.7" "5.25" NA "2.41" "3.5" "4"
## ## ## ## ## ## ## ## ## ## ## ## ##	[5230] [5237] [5244] [5251] [5258] [5265] [5272] [5279] [5286] [5293] [5300] [5307] [5314] [5321] [5328]	"2.3" "1.91" "1.4" "1.69" "1.4" "1.75" "1.4" "1.77" "1.4" "1.6" "4.2" NA "3.58" "4.45" "4.68"	"1.9" "1.2" "1.3" "1.5" "2.48" "1.4" "2" "1.7" "1.7" "1.8" "4.3" NA "3.2" "4.37" "2.9"	"2.2" "2.07" NA "1.1" NA "2.52" "1.55" "2.35" "1.7" "1.45" "4.73" "3.74" "1.87" "3.44" "4.58" "2.85"	"2" "1.15" "1.3" NA "2.32" "1.35" "1.35" "1.55" "1.58" "4.95" "3.6" "1.8" "3.72" "2.42" "3.95"	"2.45" "2.52" "1.1" "1.44" "2.56" "2.2" "1.25" "1.1" "1.55" "4.95" "3.8" "1.8" "3.95" "2.5" "4"	"1.3" "1.65" "2.02" "2.08" "1.85" "1.75" "1.5" "1.7" "3" "5" "1.75" "3.59" "3.85" "4.78"	"2.49" "1.3" "1" "1.55" "2.15" "2.23" "1.68" "1.55" "1.4" "1.7" "5.25" NA "2.41" "3.5" "4" "4.3"
## ## ## ## ## ## ## ## ## ## ## ## ##	[5230] [5237] [5244] [5251] [5258] [5265] [5272] [5279] [5286] [5300] [5307] [5314] [5321] [5328] [5335]	"2.3" "1.91" "1.4" "1.69" "1.4" "1.75" "1.4" "1.77" "1.4" "1.6" "4.2" NA "3.58" "4.68" "3.7"	"1.9" "1.2" "1.3" "1.5" "2.48" "1.4" "2" "1.7" "1.7" "1.8" "4.3" NA "3.2" "4.37" "2.9" "4.85"	"2.2" "2.07" NA "1.1" NA "2.52" "1.55" "2.35" "1.7" "1.45" "4.73" "3.74" "1.87" "3.44" "4.58" "2.85"	"2" "1.15" "1.3" NA "2.32" "1.35" "1.55" "1.58" "4.95" "3.6" "1.8" "3.72" "2.42" "3.95" "5.08"	"2.45" "2.52" "1.1" "1.44" "2.56" "2.2" "1.25" "1.1" "1.55" "4.95" "3.8" "1.8" "3.95" "2.5" "4" "4.57"	"1.3" "1.65" "2.02" "2.08" "1.85" "1.75" "1.5" "1.77" "3.8" "5.75" "3.59" "3.85" "4.78" "3.8"	"2.49" "1.3" "1" "1.55" "2.15" "2.23" "1.68" "1.55" "1.4" "1.7" "5.25" NA "2.41" "3.5" "4.3" "4.3"
## ## ## ## ## ## ## ## ## ## ## ## ##	[5230] [5237] [5244] [5251] [5258] [5265] [5272] [5279] [5286] [5300] [5307] [5314] [5321] [5328] [5328] [5335] [5342]	"2.3" "1.91" "1.4" "1.69" "1.4" "1.75" "1.4" "1.77" "1.4" "1.6" "4.2" NA "3.58" "4.45" "4.68" "3.7" "4.79"	"1.9" "1.2" "1.3" "1.5" "2.48" "1.4" "2" "1.7" "1.7" "1.8" "4.3" NA "3.2" "4.37" "2.9" "4.85" "5.1"	"2.2" "2.07" NA "1.1" NA "2.52" "1.55" "2.35" "1.7" "1.45" "4.73" "3.74" "1.87" "3.44" "4.58" "2.85" "5" "3.15"	"2" "1.15" "1.3" NA "2.32" "1.35" "1.55" "1.58" "4.95" "3.6" "1.8" "3.72" "2.42" "3.95" "5.08" "3.5"	"2.45" "2.52" "1.1" "1.44" "2.56" "2.2" "1.25" "1.1" "1.55" "4.95" "3.8" "1.8" "3.95" "2.5" "4" "4.57"	"1.3" "1.65" "2.02" "2.08" "1.85" "1.75" "1.5" "1.77" "3.85" "1.75" "3.59" "3.85" "4.78" "3.8" "4.75"	"2.49" "1.3" "1" "1.55" "2.15" "2.23" "1.68" "1.55" "1.4" "1.7" "5.25" NA "2.41" "3.5" "4" "4.3" "4.8" "5.67"
# # # # # # # # # # # # # # # # # # #	[5230] [5237] [5244] [5251] [5258] [5265] [5272] [5279] [5286] [5293] [5300] [5307] [5314] [5321] [5328] [5328] [5335] [5342] [5349]	"2.3" "1.91" "1.4" "1.69" "1.4" "1.75" "1.4" "1.77" "1.4" "1.6" "4.2" NA "3.58" "4.45" "4.68" "3.7" "4.79" "2.93"	"1.9" "1.2" "1.5" "2.48" "1.4" "2" "1.7" "1.7" "1.8" "4.3" NA "3.2" "4.37" "2.9" "4.85" "5.1" "2.9"	"2.2" "2.07" NA "1.1" NA "2.52" "1.55" "2.35" "1.7" "1.45" "4.73" "3.74" "1.87" "3.44" "4.58" "2.85" "5" "3.15" "3.65"	"2" "1.15" "1.3" NA "2.32" "1.35" "1.55" "1.58" "4.95" "3.6" "1.8" "3.72" "2.42" "3.95" "5.08" "3.5" "4.3"	"2.45" "2.52" "1.1" "1.44" "2.56" "2.2" "1.25" "1.1" "1.55" "4.95" "3.8" "1.8" "3.95" "2.5" "4" "4.57" "4.52" "4.18"	"1.3" "1.65" "2.02" "2.08" "1.85" "1.75" "1.5" "1.77" "3.85" "4.75" "3.88" "4.75" "3.2"	"2.49" "1.3" "1" "1.55" "2.15" "2.23" "1.68" "1.55" "1.4" "1.7" "5.25" NA "2.41" "3.5" "4.3" "4.8" "5.67" "2.9"
######################################	[5230] [5237] [5244] [5251] [5258] [5265] [5272] [5279] [5286] [5300] [5307] [5314] [5321] [5328] [5328] [5342] [5342] [5349] [5356]	"2.3" "1.91" "1.4" "1.69" "1.4" "1.75" "1.4" "1.77" "1.4" "1.6" "4.2" NA "3.58" "4.45" "4.68" "3.7" "4.79" "2.93" "3.35"	"1.9" "1.2" "1.5" "2.48" "1.4" "2" "1.7" "1.7" "1.8" "4.3" NA "3.2" "4.37" "2.9" "4.85" "5.1" "2.9" "3.4"	"2.2" "2.07" NA "1.1" NA "2.52" "1.55" "2.35" "1.7" "1.45" "4.73" "3.74" "1.87" "3.44" "4.58" "2.85" "5" "3.65" "3.65"	"2" "1.15" "1.3" NA "2.32" "1.35" "1.35" "1.55" "1.58" "4.95" "3.6" "1.8" "3.72" "2.42" "3.95" "5.08" "4.3" "2.93"	"2.45" "2.52" "1.1" "1.44" "2.56" "2.2" "1.25" "1.55" "1.55" "4.95" "3.8" "1.8" "3.95" "2.5" "4" "4.57" "4.52" "4.18" "2.9"	"1.3" "1.65" "2.02" "2.08" "1.75" "1.75" "1.5" "1.77" "3" "5" "1.75" "3.59" "3.59" "4.78" "3.8" "4.75" "3.2" "3.5"	"2.49" "1.3" "1" "1.55" "2.15" "2.23" "1.68" "1.55" "1.4" "1.7" "5.25" NA "2.41" "3.5" "4" "4.3" "4.8" "5.67" "2.9" "3.95"
######################################	[5230] [5237] [5244] [5251] [5258] [5265] [5272] [5279] [5286] [5307] [5307] [5314] [5321] [5328] [5328] [5342] [5349] [5356] [5363]	"2.3" "1.91" "1.4" "1.69" "1.4" "1.75" "1.4" "1.77" "1.4" "1.6" "4.2" NA "3.58" "4.45" "4.68" "3.7" "4.79" "2.93" "3.35" "4.37"	"1.9" "1.2" "1.3" "1.5" "2.48" "1.4" "2" "1.7" "1.7" "1.8" "4.3" NA "3.2" "4.37" "2.9" "4.85" "5.1" "2.9" "3.4" "2.52"	"2.2" "2.07" NA "1.1" NA "2.52" "1.55" "2.35" "1.7" "1.45" "4.73" "3.74" "1.87" "3.44" "4.58" "2.85" "5" "3.15" "3.65" "3.65" "2.8"	"2" "1.15" "1.3" NA "2.32" "1.35" "1.35" "1.55" "1.58" "4.95" "3.6" "1.8" "3.72" "2.42" "3.95" "5.08" "3.5" "4.3" "2.93" "3.35"	"2.45" "2.52" "1.1" "1.44" "2.56" "2.2" "1.25" "1.55" "1.55" "4.95" "3.8" "1.8" "3.95" "2.5" "4" "4.57" "4.52" "4.18" "2.9" "3.5"	"1.3" "1.65" "2.02" "2.08" "1.75" "1.75" "1.5" "1.77" "3" "5" "1.75" "3.59" "3.85" "4.78" "3.8" "4.75" "3.2" "3.5" "3.98"	"2.49" "1.3" "1" "1.55" "2.15" "2.23" "1.68" "1.55" "1.4" "1.7" "5.25" NA "2.41" "3.5" "4" "4.3" "4.8" "5.67" "2.9" "3.95" "1.45"
#########################	[5230] [5237] [5244] [5251] [5258] [5265] [5272] [5279] [5286] [5300] [5307] [5314] [5321] [5328] [5335] [5342] [5349] [5356] [5363] [5370]	"2.3" "1.91" "1.4" "1.69" "1.4" "1.75" "1.4" "1.87" "1.4" "1.6" "4.2" NA "3.58" "4.45" "4.68" "3.7" "4.79" "2.93" "3.35" "4.37" "1.55"	"1.9" "1.2" "1.3" "1.5" "2.48" "1.4" "2" "1.7" "1.7" "1.8" "4.3" NA "3.2" "4.37" "2.9" "4.85" "5.1" "2.9" "3.4" "2.52" "1.9"	"2.2" "2.07" NA "1.1" NA "2.52" "1.55" "2.35" "1.7" "1.45" "4.73" "3.74" "1.87" "3.44" "4.58" "2.85" "5" "3.65" "3.65" "2.8" "2.8"	"2" "1.15" "1.3" NA "2.32" "1.35" "1.35" "1.55" "1.58" "4.95" "3.6" "1.8" "3.72" "2.42" "3.95" "5.08" "3.5" "4.3" "2.93" "3.35" "2.23"	"2.45" "2.52" "1.1" "1.44" "2.56" "2.2" "1.25" "1.55" "1.55" "4.95" "3.8" "1.8" "3.95" "2.5" "4" "4.57" "4.52" "4.18" "2.9" "3.5" "1.95"	"1.3" "1.65" "2.02" "2.08" "1.85" "1.75" "1.5" "1.77" "3.8" "4.78" "3.88" "4.75" "3.2" "3.98" "1.8"	"2.49" "1.3" "1" "1.55" "2.15" "2.23" "1.68" "1.55" "1.4" "1.7" "5.25" NA "2.41" "3.5" "4" "4.3" "4.8" "5.67" "2.9" "3.95" "1.45" "2.5"
##########################	[5230] [5237] [5244] [5251] [5258] [5265] [5272] [5279] [5286] [5300] [5307] [5314] [5321] [5328] [5335] [5342] [5342] [5349] [5356] [5363] [5370] [5377]	"2.3" "1.91" "1.4" "1.69" "1.4" "1.75" "1.4" "1.77" "1.4" "1.6" "4.2" NA "3.58" "4.45" "4.68" "3.7" "4.79" "2.93" "3.35" "4.37" "1.55" "2.7"	"1.9" "1.2" "1.3" "1.5" "2.48" "1.4" "2" "1.7" "1.7" "1.8" "4.3" NA "3.2" "4.37" "2.9" "4.85" "5.1" "2.9" "3.4" "2.52" "1.9" "3.12"	"2.2" "2.07" NA "1.1" NA "2.52" "1.55" "2.35" "1.7" "1.45" "4.73" "3.74" "1.87" "3.44" "4.58" "2.85" "5" "3.65" "3.65" "2.8" "2.28" "2.02" "2.37"	"2" "1.15" "1.3" NA "2.32" "1.35" "1.55" "1.58" "4.95" "3.6" "1.8" "3.72" "2.42" "3.95" "5.08" "3.5" "4.3" "2.93" "2.93" "2.65"	"2.45" "2.52" "1.1" "1.44" "2.56" "2.2" "1.25" "1.1" "1.55" "4.95" "3.8" "1.8" "3.95" "2.5" "4" "4.57" "4.52" "4.18" "2.9" "3.5" "1.95" "2.95"	"1.3" "1.65" "2.02" "2.08" "1.85" "1.75" "1.5" "1.77" "3.85" "4.78" "3.85" "4.75" "3.2" "3.98" "1.8" "3.45"	"2.49" "1.3" "1" "1.55" "2.15" "2.23" "1.68" "1.55" "1.4" "1.7" "5.25" NA "2.41" "3.5" "4.3" "4.8" "5.67" "2.9" "3.95" "1.45" "2.5" "3.73"
###########################	[5230] [5237] [5244] [5251] [5258] [5265] [5272] [5279] [5286] [5300] [5307] [5314] [5321] [5328] [5328] [5342] [5342] [5349] [5356] [5363] [5370] [5377] [5384]	"2.3" "1.91" "1.4" "1.69" "1.4" "1.75" "1.4" "1.77" "1.4" "1.6" "4.2" NA "3.58" "4.45" "4.68" "3.7" "4.79" "2.93" "3.35" "4.37" "1.55" "2.7" "2.83"	"1.9" "1.2" "1.3" "1.5" "2.48" "1.4" "2" "1.7" "1.7" "1.8" "4.3" NA "3.2" "4.37" "2.9" "4.85" "5.1" "2.9" "3.4" "2.52" "1.9" "3.12" "2.8"	"2.2" "2.07" NA "1.1" NA "2.52" "1.55" "2.35" "1.7" "1.45" "4.73" "3.74" "1.87" "3.44" "4.58" "2.85" "5" "3.65" "3.65" "3.65" "2.8" "2.02" "2.37" "3.7"	"2" "1.15" "1.3" NA "2.32" "1.35" "1.55" "1.58" "4.95" "3.6" "1.8" "3.72" "2.42" "3.95" "5.08" "3.5" "4.3" "2.93" "3.35" "2.23" "2.65" "3.3"	"2.45" "2.52" "1.1" "1.44" "2.56" "2.2" "1.25" "1.1" "1.55" "4.95" "3.8" "1.8" "3.95" "4.57" "4.52" "4.18" "2.9" "3.5" "1.95" "2.95" "3.75"	"1.3" "1.65" "2.02" "2.08" "1.85" "1.75" "1.5" "1.77" "3.85" "4.78" "3.85" "4.78" "3.81" "4.75" "3.98" "1.8" "3.98" "1.8" "3.98" "1.8" "3.45" "3.56"	"2.49" "1.3" "1" "1.55" "2.15" "2.23" "1.68" "1.55" "1.4" "1.7" "5.25" NA "2.41" "3.5" "4.3" "4.3" "4.8" "5.67" "2.9" "3.95" "1.45" "2.5" "3.73" "3.1"
##########################	[5230] [5237] [5244] [5251] [5258] [5265] [5272] [5279] [5286] [5300] [5307] [5314] [5321] [5328] [5335] [5342] [5349] [5356] [5363] [5370] [5377] [5384] [5391]	"2.3" "1.91" "1.4" "1.69" "1.4" "1.75" "1.4" "1.77" "1.4" "1.6" "4.2" NA "3.58" "4.45" "4.68" "3.7" "4.79" "2.93" "3.35" "4.37" "1.55" "2.7" "2.83" "3.55"	"1.9" "1.2" "1.3" "1.5" "2.48" "1.4" "2" "1.7" "1.7" "1.8" "4.3" NA "3.2" "4.37" "2.9" "4.85" "5.1" "2.9" "3.4" "2.52" "1.9" "3.12" "2.8" "3.95"	"2.2" "2.07" NA "1.1" NA "2.52" "1.55" "2.35" "1.7" "1.45" "4.73" "3.74" "1.87" "3.44" "4.58" "2.85" "5" "3.65" "3.65" "2.8" "2.02" "2.37" "3.7" "4.1"	"2" "1.15" "1.3" NA "2.32" "1.35" "1.55" "1.58" "4.95" "3.6" "1.8" "3.72" "2.42" "3.95" "5.08" "3.5" "4.3" "2.93" "3.35" "2.23" "2.65" "3.3" "2.16"	"2.45" "2.52" "1.1" "1.44" "2.56" "2.2" "1.25" "1.1" "1.55" "4.95" "3.8" "1.8" "3.95" "4.57" "4.57" "4.52" "4.18" "2.9" "3.5" "1.95" "2.95" "3.75" "2.6"	"1.3" "1.65" "2.02" "2.08" "1.85" "1.75" "1.5" "1.77" "3.85" "4.75" "3.85" "4.78" "3.8" "4.75" "3.2" "3.5" "3.98" "1.8" "3.45" "3.56" "2.95"	"2.49" "1.3" "1" "1.55" "2.15" "2.23" "1.68" "1.55" "1.4" "1.7" "5.25" NA "2.41" "3.5" "4.8" "4.8" "4.8" "5.67" "2.9" "3.95" "1.45" "2.5" "3.73" "3.1" "3"
############################	[5230] [5237] [5244] [5251] [5258] [5265] [5272] [5279] [5286] [5300] [5307] [5314] [5321] [5328] [5328] [5342] [5342] [5349] [5356] [5363] [5370] [5377] [5384]	"2.3" "1.91" "1.4" "1.69" "1.4" "1.75" "1.4" "1.77" "1.4" "1.6" "4.2" NA "3.58" "4.45" "4.68" "3.7" "4.79" "2.93" "3.35" "4.37" "1.55" "2.7" "2.83" "3.55" "4.2"	"1.9" "1.2" "1.3" "1.5" "2.48" "1.4" "2" "1.7" "1.7" "1.8" "4.3" NA "3.2" "4.37" "2.9" "4.85" "5.1" "2.9" "3.4" "2.52" "1.9" "3.12" "2.8"	"2.2" "2.07" NA "1.1" NA "2.52" "1.55" "2.35" "1.7" "1.45" "4.73" "3.74" "1.87" "3.44" "4.58" "2.85" "5" "3.65" "3.65" "3.65" "2.8" "2.02" "2.37" "3.7"	"2" "1.15" "1.3" NA "2.32" "1.35" "1.55" "1.58" "4.95" "3.6" "1.8" "3.72" "2.42" "3.95" "5.08" "3.5" "4.3" "2.93" "3.35" "2.23" "2.65" "3.3"	"2.45" "2.52" "1.1" "1.44" "2.56" "2.2" "1.25" "1.1" "1.55" "4.95" "3.8" "1.8" "3.95" "4.57" "4.52" "4.18" "2.9" "3.5" "1.95" "2.95" "3.75"	"1.3" "1.65" "2.02" "2.08" "1.85" "1.75" "1.5" "1.77" "3.85" "4.78" "3.85" "4.78" "3.81" "4.75" "3.98" "1.8" "3.98" "1.8" "3.98" "1.8" "3.45" "3.56"	"2.49" "1.3" "1" "1.55" "2.15" "2.23" "1.68" "1.55" "1.4" "1.7" "5.25" NA "2.41" "3.5" "4.3" "4.3" "4.8" "5.67" "2.9" "3.95" "1.45" "2.5" "3.73" "3.1"

	[[440]	"4 05"	"0 74"	"4 0"	"4 0"			110 4611
	[5412]		"2.74"	"1.8"	"1.9"	"2.24"	"2.2"	"2.16"
	[5419]		"1.4"	"2.2"	"1.55"	"1.65"	"1.7"	"1.85"
		"1.85"	"2.1"	"2.53"	"1.7"	"2.1"	"3.05"	"2.65"
##	[5433]	"2.97"	"1.74"	"2.2"	"3.05"	"3.2"	"3.4"	"2.34"
##	[5440]	"2.24"	"6"	"3.8"	"4.83"	"1.56"	"1.8"	"2.65"
##	[5447]	"3.45"	"4.2"	"1.8"	"1.92"	"2.75"	"2.55"	"2.72"
##	[5454]	"2.3"	"2.25"	"3"	"3.15"	"3.74"	"2.41"	"2"
##	[5461]	"2.55"	"2.2"	"2.28"	"2.31"	"2.2"	"2.45"	"2.4"
	[5468]	"2.39"	"1.15"	"1.2"	"1.25"	"1.3"	"1.42"	"2.91"
	[5475]	"2.95"	"3.35"	"3.75"	"3.64"	"3.2"	"3.1"	"3.6"
								"3.72"
	[5482]	"4.07"	"4.51"	"2.46"	"2.55"	"3"	"3.05"	
	[5489]	"2.77"	"2.7"	"3.35"	"3.5"	"4.19"	"3.23"	"3.2"
##	[5496]	"3.85"	"3.75"	"4.14"	"3.65"	"3.8"	"4.25"	"3.9"
##	[5503]	"4.74"	"2.74"	"2.87"	"3.2"	"3.4"	"3.81"	"1.74"
##	[5510]	"1.95"	"2.05"	"2.15"	"2.39"	"1.1"	"1.35"	"2"
##	[5517]	"2.08"	"2.15"	"1.65"	"1.25"	"2.3"	"2.42"	"3.12"
##	[5524]	"2.5"	"2.45"	"3.15"	"3.05"	"3.85"	"1.75"	"1.8"
	[5531]	"2.25"	"2.3"	"2.53"	"2.6"	"2.5"	"3.3"	"3.12"
##	[5538]	"3.49"	"2.45"	"2.8"	"3.12"	"3.7"	"3.94"	"1.15"
##	[5545]	"1"	"1.3"	"1.5"	"1.66"	"1.5"	"1.4"	"1.75"
			"2.23"	"1.6"	"1.4"		"1.8"	"2.37"
##	[5552]	"1.72"				"1.9"		
##	[5559]	"3.21"	"3.3"	"3.95"	"3.7"	"4.3"	"3.26"	"3"
##	[5566]	"3.7"	"3.7"	"3.98"	"2.95"	"3.1"	"3.8"	"3.55"
##	[5573]	"5.1"	"2.65"	"2.15"	"3.3"	"3.1"	"3.18"	"1.81"
##	[5580]	NA	NA	NA	"3.06"	"2.55"	"2.3"	"2.05"
##	[5587]	"3.5"	"3.92"	"2.75"	"2.6"	"1.9"	"4.5"	"4.52"
##	[5594]	"1.84"	"1.85"	"1.55"	"1.45"	"1.56"	"2.5"	"3"
##	[5601]	"3"	"3.1"	"2.35"	"2.15"	"1.8"	"2.15"	"2.26"
##	[5608]	"2.15"	"1.55"	"1.45"	"2.3"	"2.3"	"2.31"	"1.25"
##	[5615]	"1.8"	"1.9"	"1.6"	"1.73"	"1.81"	"2.02"	"2.55"
##	[5622]	"2.7"	"3.17"	"2.57"	"2.1"	"2.24"	"2.05"	"2.31"
##	[5629]	"2.69"	"2.6"	"2.65"	"2.4"	"2.45"	"1.6"	"1.45"
##	[5636]	"1.6"	"1.6"	"1.9"	"2.1"	"2.1"	"2.1"	"1.9"
##	[5643]	"2.04"	"2.2"	"1.9"	"2.15"	"2.05"	"2.42"	"1.95"
##	[5650]	"1.94"	"2.05"	"1.85"	"2.2"	"1.4"	"1.4"	"1.5"
##	[5657]	"1.7"	"1.85"	"1.85"	"1.9"	"1.9"	"1.9"	"2.06"
		"1.8"	"1.4"	"1.7"	"1.76"	"1.91"	"1.1"	"1.3"
##	[5671]	"1.8"	"1.75"	"1.87"	"2.45"	"2.6"	"3.4"	"3.75"
##	[5678]	"4.25"	"2.16"	"2.4"	"2.7"	"2.6"	"2.93"	"2.66"
##	[5685]	"2.42"	"3.1"	"3.05"	"3.36"	"2.7"	"3"	"3.25"
##	[5692]	"4"	"3.52"	"2.81"	"3"	"3.55"	"3.1"	"3.58"
##	[5699]	"2.8"	"2.8"	"3.35"	"3.25"	"3.91"	"2.99"	"3"
##	[5706]	"3.7"	"3.4"	"4.1"	"2.62"	"2.8"	"3.25"	"2.98"
	[5713]	"2.93"	"3.5"	"3"	"4.2"	"3.9"	"4.35"	"3.89"
##		"3.55"	"4.35"	"4.2"	"4.58"	"3.25"	"3.4"	"4.3"
		"4.3"	"4.72"	"2.67"	"2.81"	"3.05"	"2.9"	NA
	[5734]	"2.45"	"2.5"	"2.9"	"2.7"	"1.79"	"1.75"	"1.9"
##								
##	[5741]	"2.3"	"1.8"	"2.05"	"2.5"	"2.05"	"2.35"	"1.6"
##	[5748]	"2.99"	"3.7"	"3"	"3.3"	"3.15"	"3.5"	"2.42"
##	[5755]	"2.4"	"2.7"	"2.5"	"3.27"	"1.05"	"1.5"	"1.6"
##	[5762]	"1.63"	"1.92"	"2.15"	"3.4"	"2.4"	"2.5"	"3.22"
##	[5769]	"2.95"	"3"	"3.35"	"3.1"	"3.27"	"2.45"	"2.5"
##	[5776]	"3.35"	"3"	"3.4"	"1.82"	"1.85"	"2"	"1.7"
##	[5783]	"1.75"	"1.71"	"2.3"	"2.95"	"1.9"	"1.92"	"2.2"

##	[5790]	"2.45"	"2.25"	"2.15"	"2.15"	"2.75"	"2.4"	"2.15"
	[5797]		"2.18"	"2.2"	"2.2"	"2.2"	"1.3"	"2.02"
	[5804]	"1.59"	"1.3"	"1.35"	"1.2"	"1.18"	"2.5"	"2"
	[5811]	"1.7"	"3.6"	"1.69"	"1"	"1.05"	"1.8"	"0.8"
	[5818]	"0.85"	"1.2"	"1.3"	"1.95"	"1"	"1.95"	"1.9"
	[5825]	"1.6"	"1.1"	"1.05"	"1.2"	"2.45"	"2.3"	"2.45"
	[5832]	"2.1"	"2.49"	"1.75"	"1.2"	"1.4"	"1.5"	"1.8"
	[5839]	"1.2"	"1.1"	"1.4"	"1.3"	"1.02"	"1.6"	"1.4"
	[5846]	"1.9"	"2.05"	"2.15"	"1.4"	"1.2"	"1.5"	"1.6"
	[5853]	"1.91"	"2.57"	"2.2"	"2.2"	"2.3"	"2.56"	"2"
	[5860]	"1.95"	"2.55"	"2.03"	"1.88"	"1.7"	"1.7"	"1.8"
	[5867]	"1.6"	"2.36"	"1.35"	"1.35"	"1.75"	"1.5"	"1.94"
	[5874]	"3.1"	"3.1"	"4.15"	"3.82"	"4.99"	"2.17"	"2.3"
			"3.7"	"3.9"	"2.83"		"4.6"	"4.9"
	[5881]	"3.95"				"3.5"		
	[5888]	"5.3"	"4.33"	"4.51"	"5.2"	"6.1"	"4.85"	"4.57"
	[5895]	"4.6"	"4.85"	"4.2"	"4.75"	"2.84"	"3.2"	"3.55"
		"3.56"	"3.87"	"1.97"	"1.95"	"3.5"	"2.8"	"4.1"
	[5909]	"3.45"	"3.52"	"4.2"	"5"	"5"	"1.6"	"1.5"
	[5916]	"1.95"	"1.78"	"2.42"	"1.8"	"1.9"	"2.25"	"3"
	[5923]	"2.05"	"2.35"	"2.85"	"3.4"	"3.35"	"3.7"	"4.15"
	[5930]	"4.35"	"5.1"	"3.2"	"3.95"	"1.3"	"1.4"	"1.9"
	[5937]	"1.75"	"2.35"	"3.2"	"3.2"	"4"	"3.8"	"4.35"
	[5944]	"2.12"	"2.8"	"3.4"	"3.8"	"4.35"	"1.6"	"1.45"
	[5951]	"1.95"	"5.25"	"5.7"	"2.77"	"3.25"	"4.3"	"3.95"
	[5958]	"4.75"	"1.8"	"1.95"	"2.7"	"2.65"	"2.87"	"2.56"
	[5965]	"2.85"	"3.3"	"2.9"	"3.34"	"2.45"	"3.31"	"3.4"
	[5972]	"3.6"	"3.9"	"2.93"	"2.75"	"4.25"	"3.8"	"4.77"
	[5979]	"2.72"	"3.4"	"3.4"	"3.75"	"4.05"	"1.6"	"1.5"
##	[5986]	"1.7"	"1.5"	"1.82"	"1.3"	"1.4"	"1.7"	"1.75"
##	[5993]	"2.1"	"1.68"	"2.2"	"3.2"	"2.95"	"3.06"	"1.61"
##	[6000]	"1.95"	"2.55"	"3.6"	"2.48"	"1.45"	"2.2"	"2"
##	[6007]	"2.5"	"3.31"	"1.7"	"1.85"	"2.4"	"2.4"	"2.72"
##	[6014]	"1.2"	"1.55"	"2"	"2.2"	"2.38"	"1.89"	"2.21"
##	[6021]	"2.65"	"2.6"	"2.6"	"2.58"	"2.45"	"2.7"	"3"
##	[6028]	"2.89"	"1.63"	"1.9"	"1.95"	"2"	"2.35"	"1.35"
##	[6035]	"1.38"	"1.8"	"1.75"	"2.23"	"2.68"	"2.95"	"2.9"
	[6042]	"2.65"	"2.57"	"1.74"	"1.9"	"2.05"	"2.25"	"2.3"
##	[6049]	"2.21"	"2.2"	"2.8"	"2.67"	"2.75"	"1.89"	"1.5"
##	[6056]	"2.8"	"2.3"	"2.8"	"1.45"	"1.95"	"1.6"	"1.5"
##	[6063]	"1.64"	"2.91"	"4.43"	"3.65"	"4.1"	"4.16"	"3.93"
##	[6070]	"3.22"	"4.29"	"4.15"	"4.7"	"3.96"	"4.25"	"4.5"
##	[6077]	"4.92"	"5.11"	"2.98"	"2.95"	"2.75"	"3.7"	"4.28"
##	[6084]	"4.12"	"3.75"	"4.25"	"4.05"	"4.56"	"2.13"	"2.2"
##	[6091]	"2.56"	"2.3"	"2.89"	"2.1"	"2.12"	"2.37"	"2.55"
##	[6098]	"3.44"	"3.61"	"4"	"4.27"	"4.23"	"4.6"	"2.57"
##	[6105]	"2.25"	"2.69"	"2.95"	"3.51"	"1.8"	"1.75"	"1.9"
##	[6112]	"2"	"2.49"	"2.54"	"2.15"	"2.43"	"2.5"	"2.87"
##	[6119]	"2.53"	"2.55"	"2.61"	"2.72"	"3.03"	"1.7"	"1.6"
##	[6126]	"1.8"	"1.6"	"2.05"	"1.65"	"1.5"	"1.8"	"1.62"
		"1.94"	"2.56"	"2.43"	"2.51"	"2.8"	"2.7"	"1.69"
##	[6140]	"1.8"	"1.8"	"1.85"	"2.22"	"1.72"	"1.4"	"1.55"
##	[6147]	NA	NA	"1"	"0.95"	"1"	"1.3"	"1.42"
##	[6154]	"1.5"	"1.3"	"1.05"	"0.7"	"1.17"	"1.6"	"1.5"
##	[6161]	"1.95"	"2.22"	"2.4"	"1.5"	"1.4"	"1.4"	"1.5"

##	Г61687	"1.67"	"1.82"	"1.6"	"1.2"	"1.25"	"1.4"	"1.3"
##	[6175]	"1.25"	"1.2"	NA	"MISSING"		"2.15"	"2.2"
##	[6182]	"2"	"2.15"	"1.84"	"1.85"	"2.05"	"2.1"	"2.15"
##	[6189]	"1.9"	"1.8"	"1.9"	"1.65"	"1.96"	"2.2"	"2"
##	[6196]	"2.4"	"2.2"	"2.34"	"1.45"	"1.35"	"1.6"	"1.62"
##	[6203]	"1.87"	"1.7"	"1.6"	"1.75"	"1.6"	"1.81"	"2.27"
##	[6210]	"2.34"	"2.35"	NA	NA	"1.69"	"1.55"	"1.65"
##	[6217]	"1.6"	"1.69"	"1.4"	"1.3"	"1.4"	"1.45"	"1.7"
##	[6224]	"1.96"	"2.15"	"2.24"	"2.5"	"2.77"	"3.67"	"3.8"
##	[6231]	"3.95"	"4.9"	"4.05"	"4.26"	"4.29"	"4.12"	"3.65"
##	[6238]	"4.56"	"3.57"	"3.01"	"3.42"	"3.62"	"4"	"3.2"
##	[6245]	"3.55"	"3.3"	NA	NA	"3.97"	"3.66"	"3.8"
##	[6252]	"3.35"	"4.34"	"2.61"	"2.72"	"2.9"	"3.07"	"3.21"
##	[6252]	"1.78"	"1.82"	"1.6"	"1.95"	"2.25"	"2.55"	"2.7"
##	[6266]	"2.75"	"2.36"	"2.74"	"1.7"	"1.6"	"1.5"	"1.62"
##	[6273]	"1.94"	"1.55"	NA	NA	"2.7"	"3.12"	"2.59"
##	[6280]	"2.1"	"2.94"	"2.65"	"2.19"	"2.16"	"2"	"2.78"
##	[6287]	"2.8"	"3.05"	"2.49"	"3.1"	"3.53"	"3.67"	"4.2"
##	[6294]	"2.47"	"2.5"	"3.26"	"3.25"	"3.08"	"2.92"	"3.2"
##	[6301]	"4"	"4.4"	"4.4"	"3.2"	"2.85"	"3.6"	"4.65"
##	[6308]	"4.52"	"1.6"	"1.6"	"2.82"	"3.65"	"3.85"	"1.83"
	[6315]	"1.95"	"1.98"	"2"	"2.6"	"1.91"	"1.96"	"2.09"
##	[6322]	"1.8"	"2.4"	"1.7"	"2.31"	"2.4"	"3.5"	"2.75"
##	[6322]	"2.73"	"2.4"	"2.9"	"2.31"	"2.4"	"3.5"	"2.75"
##	[6336]	"2.7"	"2.93"	"3.05"	"2.95"		"1.99"	"2.5"
##				"3.05"		"1.7"		
##	[6343] [6350]	"3.2"	"1.55" "1.75"	"1.45" "1.81"	"2"	"2"	"2.03" "2.65"	"1.6"
##		"1.39"			"2.05"	"1.5"		"4.9"
##	[6357]	"1.45"	"0.9"	"3.53"	"3.4"	"3.6"	"3.7"	"3.18"
##	[6364]	"1.84"	"2.15"	"2.12"	"2.25"	"2.68"	"2.48"	NA
##	[6371]		NA	NA	"1.6"	"1.6"	"1.8"	"1.9"
##	[6378]	"2.64"	"1.45"	"1.65"	"1.9"	"2"	"2.28"	"1.86"
##	[6385]	"1.86"	"2.25"	"2.4"	"2.77"	"2.41"	"2.8"	NA
##	[6392]	NA	NA	"2.64"	"1.4"	"1.35"	"1.6"	"1.83"
##	[6399]	"3.53"	"3.43"	"2.83"	NA	NA	"1.63"	"1.7"
##	[6406]	"1.55"	"1.8"	"1.62"	"1.6"	"1.4"	"1.1"	"1.6"
##	[6413]	"1.26"	"2.56"	"2.2"	"2.2"	"1.9"	"2.29"	"2.27"
	[6420]	"2"	"2.14"	"1.9"	"1.97"	"1.8"	"1.8"	"2.58"
##	[6427]	"2.3"	"2.12"	"2.19"	"2.15"	"3.53"	"2.2"	"2.26"
##	[6434]	"2.23"	"1.6"	"1.75"	"1.65"	"1.4"	"2.3"	"1.6"
##	[6441]	"2.78"	NA	NA	"2.11"	"2.2"	"2.3"	"2.4"
##	[6448]	"2.18"	"1.7"	"2.05"	"2.3"	"2.41"	"2.37"	"2.1"
##	[6455]	"1.95"	"2.57"	"3.75"	"2.82"	"2.38"	"2.75"	"3.7"
##	[6462]	"3.05"	"3.43"	"1.6"	"1.4"	"1.83"	"1.8"	"1.98"
##	[6469]	"2.44"	"2.59"	"2.71"	"2.67"	"2.7"	"1.69"	"1.7"
##	[6476]	"1.9"	"1.85"	"1.94"	"1.68"	"1.4"	"2.14"	"2"
##	[6483]	"2.44"	"1.4"	"1.3"	"1.7"	"1.65"	"1.74"	"2.56"
##	[6490]	"1.6"	"1.94"	"1.85"	NA	"3.1"	"3.04"	"3.2"
##	[6497]	"3.05"	"3.04"	"2.23"	"2.45"	"2.63"	"2.45"	"2.58"
##	[6504]	"2.69"	"2.95"	"3.2"	"3.25"	"3.69"	"2.44"	"2.35"
##	[6511]	"3.06"	"2.8"	"2.96"	"3.4"	"3.25"	"3.29"	"3.8"
##	[6518]	"3.75"	"4.12"	"4.75"	"4.79"	"4.9"	"4.39"	"4.25"
##	[6525]	"4.23"	"4.79"	"5.2"	"4.63"	"2.19"	"2.44"	"2.84"
##	[6532]	"3.1"	"3.31"	"2.63"	"3"	"3.15"	"3.39"	"3.52"
##	[6539]	"3.13"	"3.3"	"3.17"	"3.42"	"3.44"	"3"	"3.2"

	[6546]		"5.1"	"3.76"	"2.79"	"3.05"	"3.05"	"3.47"
##	[6553]	"3.53"	"1.77"	"1.8"	"2"	"2.2"	"2.55"	"2.95"
##	[6560]	"3.1"	"3.37"	"3.15"	"3.85"	"3.69"	"3.89"	"4"
##	[6567]	"4.2"	"4.18"	"2.6"	"2.69"	"2.73"	"3"	"3.24"
##	[6574]	"2.13"	"2.23"	"2.44"	"2.75"	"2.9"	"1.5"	"1.5"
##	[6581]	"2.5"	NA	NA	"1.67"	"1.82"	"2.06"	"1.8"
	[6588]		"1.55"	"1.45"	"2.16"	"2"	"2.15"	"1.71"
	[6595]		"1.7"	"2.12"	"2.21"	"1.71"	"1.84"	"2.6"
	[6602]		"2.47"	"1.65"	"1.35"	"1.65"	NA	NA
		"1.7"	"1.55"	"1.95"	"2"	"1.92"	"1.9"	"1.85"
	[6616]		"1.79"	"1.8"	"1.63"	"1.75"	"1.8"	"1.85"
	[6623]		"1.73"	"1.9"	"2.6"	"2.5"	"2.43"	"1.85"
	[6630]		"2.35"	"2.15"	"2.31"	"1.7"	"2.3"	"1.97"
	[6637]		"2.05"	"1.55"	"1.4"	"1.5"	"1.5"	"MISSING"
	[6644]		"2.6"	"2.5"	NA	NA	"1.65"	"1.6"
	[6651]		"1.81"	"1.95"	"1.6"	"1.5"	"1.6"	"1.58"
	[6658]		"1.9"	"2.1"	"1.5"	NA	NA	"1.74"
##	[6665]	"1.8"	"1.7"	NA	NA	"1.75"	"1.9"	"1.4"
##	[6672]	"1.72"	"2.06"	"1"	"1"	"1"	NA	NA
##	[6679]	"2.84"	"2.75"	"3"	"3.05"	"3.1"	"2.79"	"2.7"
##	[6686]	"3.1"	"3.45"	"3.17"	"2.23"	"2.15"	"2.2"	"2.15"
##	[6693]	"2.13"	"2.76"	"2.8"	"3.2"	"3.1"	"3.65"	"1.68"
##	[6700]	"1.75"	"1.7"	"1.7"	"1.8"	"3.25"	"3.45"	"3.85"
##	[6707]	"3.8"	"4.4"	"2.92"	"3"	"3.5"	"3.6"	"4.03"
	[6714]		"3.1"	"3.5"	"3.7"	"3.58"	"1.7"	"1.55"
	[6721]		"2.1"	"2.45"	"2.29"	"2.55"	"2.4"	"2.1"
	[6728]		"2.4"	"2.15"	"1.9"	"1.95"	"2.25"	"1.97"
	[6735]	"2.05"	"2"	"1.9"	"2.08"	"2.17"	"2.25"	"2.3"
	[6742]	"2"	"2.05"	"2.63"	"2.9"	"2.75"	"2.6"	"2.51"
		"3.18"	"3.84"	"3.45"	"3.4"	"3.69"	"1.35"	"1.2"
		"1.6"				"2.33"	"2.9"	"3.45"
			"4.37"	"2.35"	"2.3"			
		"3.82"	"2.22"	"2.51"	"2.55"	"2.85"	"3.45"	"2.57"
			"2.3"	"2.5"	"2.75"	"2.35"	"2.66"	"2.9"
##	[6777]		"3.95"	"1.9"	"1.9"	"1.85"	"1.95"	"2.58"
##	[6784]		"1.53"	"2.6"	"4"	"4.2"	"2"	"1.25"
##		"2.1"	"2.1"	"2.42"	"1.74"	"1.82"	"2.64"	"2.95"
		"3.2"	"1.45"	"1.55"	"1.8"	"1.85"	"2"	"3.3"
##	[6805]	"2.6"	"3.2"	"4.1"	"4.15"	"2.04"	"2.1"	"2.1"
##	[6812]	"2.42"	"3.35"	"1.6"	"2"	"2.15"	"2.6"	"2.99"
##	[6819]	"1.4"	"1.4"	"1.75"	"1.65"	"4.13"	"1.64"	"2"
##	[6826]	"2.5"	"3"	"3.09"	"1.99"	"1.9"	"1.95"	"2.1"
##	[6833]	"2.2"	"2.54"	"2.2"	"2.65"	"2.9"	"2.81"	"1.55"
##	[6840]	"1.55"	"1.75"	"1.86"	"2.25"	"1.9"	"1.9"	"2"
##	[6847]	"1.95"	"2.08"	"1.96"	"2"	"1.95"	"2.1"	"2.44"
##		"1.42"	"1.35"	"1.6"	"1.9"	"1.97"	"2.45"	"2.55"
##		"2.7"	"2.6"	"2.59"	"1.82"	"1.8"	"2.2"	"2.26"
##		"2.39"	"1.8"	"1.75"	"1.6"	"1.6"	"2.01"	"1.6"
##		"1.4"	"1.05"	"1.65"	"1.83"	"3.39"	"3.64"	"4.1"
##		"4"	"3.94"	"2.4"	"2.6"	"3"	"3"	"3.39"
##		"4.57"	"4.95"	"4.9"	"4.6"	"5.3"	"2.55"	"3.03"
##		"3.09"	"3.4"	"3.67"	"4.43"	"4.51"	"4.6"	"2.45"
##		"2.41"	"2.45"	"2.8"	"2.89"	"3.16"	"3.25"	"3.75"
##		"3.8"	"3.95"	"3.55"	"4.03"	"3.61"	"3.6"	"4.22"
##	[6917]	"4.21"	"4.35"	"4.2"	"1.45"	"1.75"	"1.65"	"1.92"

##	Γ6924 <u>]</u>	"1.95"	"2.67"	"2.68"	"2.83"	"3"	"3.18"	"1.88"
	[6931]	"1.95"	"1.95"	"2.2"	"2.05"	"2.65"	"2.8"	"3"
	[6938]	"3.2"	"3.14"	"2.34"	"2.2"	"2.53"	"2.61"	"2.24"
		"2.25"	"2.16"	"2.7"	"3.28"	"2.85"	"3.29"	"3.5"
	[6952]	"3.47"	"2.79"	"2.8"	"3.32"	"3.6"	"2.5"	"2.4"
##	[6959]	"2.63"	"3"	"2.1"	"2.2"	"2.25"	"2.7"	"3.9"
##	[6966]	"3.8"	"3.77"	"4.05"	"4.7"	"1.96"	"2.1"	"2.4"
##	[6973]	"2.7"	"1.6"	"1.6"	"1.7"	"1.8"	"2"	"2"
##	[6980]	"1.85"	"2.3"	"1.55"	"2.1"	"1.9"	NA	"1.4"
##	[6987]	"2.2"	"2.49"	NA	"2.26"	"2.15"	"3.25"	NA
##	[6994]	"2.4"	"2"	"2.33"	"2.55"	"1.7"	"1.85"	"3.3"
##	[7001]	"3.4"	"2.28"	"1.95"	"2.42"	"2.1"	"1.99"	"1.8"
##	[7008]	"2.48"	"2.65"	"1.91"	"1.75"	"2.73"	"2.95"	"1.89"
##	[7015]	"1.7"	"2.89"	"2.1"	"1.79"	"1.75"	"2.2"	"2.6"
##	[7022]	"1.7"	"1.55"	"1.85"	"2.6"	"1.9"	"1.6"	"1.5"
##	[7029]	"1.45"	"1.5"	"1.57"	"2.78"	"2.8"	"0.8"	"2.6"
##	[7036]	"2.6"	"1.7"	"1.7"	"1.78"	"2.05"	"2"	"1.6"
##	[7043]	"1.6"	"1.52"	NA	NA	"2.17"	"2.3"	"2.13"
	[7050]	"2.3"	"2.15"	"1.45"	"1.35"	"1.3"	"0.8"	"0.9"
##	[7057]	"2.1"	"2.4"	"2.1"	"2.15"	"2.13"	"1.57"	"1.85"
##	[7064]	"1.7"	"2.05"	"2.1"	"2.57"	"2.15"	"2.04"	"1.9"
##	[7071]	"1.95"	"3.1"	"3.05"	"3.57"	"4"	"4.75"	"1.55"
##	[7078]	"1.7"	"1.7"	"1.6"	"2"	"1.9"	"1.92"	"2.07"
##	[7085]	"1.82"	"1.95"	"3"	"3.1"	"3.24"	"3.1"	"3.28"
	[7092]	"3.38"	"3.55"	"3.63"	"3.7"	"3.39"	"2.69"	"2.7"
	[7099]	"3.05"	"3"	"3.6"	"1.65"	"1.85"	"1.88"	"2"
##	[7106]	"2.28"	"3.55"	"3.55"	"4.04"	"3.7"	"4.09"	"2.31"
##	[7113]	"2.25"	"2.57"	"1.8"	"3.17"	"3.28"	"3.3"	"3.92"
##	[7120]	"4"	"4.37"	"1.79"	"1.8"	"1.8"	NA	NA
##	[7127]	"2.68"	"2.9"	"2.7"	"2.8"	"2.8"	"2.79"	"3.37"
##	[7134]	"3.29"	"2.9"	"3.13"	"1.99"	"2.09"	"2.26"	"2.1"
##	[7141]	"2.23"	"1.86"	"2.1"	"1.95"	"1.8"	"1.67"	"2.13"
##	[7148]	"2.24"	"2.66"	"2.6"	"3.32"	"1.75"	"1.85"	"2.05"
##	[7155]	"2.1"	"2.47"	"1.92"	"2.15"	"2.12"	"2"	"1.72"
##	[7162]	"2.63"	"2.79"	"2.83"	"2.7"	"3"	"2.17"	"2.39"
##	[7169]	"2.65"	"3"	"3.45"	"1.75"	"1.7"	"1.5"	"1.75"
##	[7176]	"1.6"	"1.3"	"1.85"	"1.95"	"1.8"	"1.6"	"1.98"
##	[7183]	"1.8"	"2.08"	"2.2"	"1.67"	"1.99"	"1.7"	"1.95"
##	[7190]	"2"	"1.87"	"1.63"	"1.6"	"1.45"	"1.2"	"1.06"
##	[7197]	"1.85"	"1.85"	"1.85"	"1.62"	"1.68"	"2.48"	"1.75"
##	[7204]	"1.89"	"2"	"1.82"	"1.29"	"1.3"	"1.4"	"0.7"
##	[7211]	"1.58"	"1.5"	"1.25"	"1.4"	NA	NA	"1.65"
##	[7218]	"1.6"	"1.52"	"2.4"	"1.35"	"1.54"	"1.2"	"1.4"
##	[7225]	"1.75"	NA	"1.38"	"1.1"	"1.9"	"1.8"	"1.85"
##	[7232]	"2.44"	"1.6"	"1.6"	"1.6"	"1.7"	"1.76"	"1.45"
##	[7239]	"2.45"	"1.6"	"1.78"	"1.25"	"0.76"	"1.6"	"1.8"
##	[7246]	"2.2"	"1.4"	"1.3"	NA	"1.5"	"1.82"	"1.93"
##	[7253]	"1.9"	"1.93"	"1.8"	"2.25"	"2.21"	"2.3"	"2.21"
##		"2.4"	"2.23"	"1.85"	"1.5"	"1.9"	"1.9"	"2.33"
	[7260]	2.4		1.00				
##	[7260] [7267]	"1.65"	"1.55"	NA	"2"	"2.05"	"2.7"	"2.65"
## ##	[7267] [7274]	"1.65" "3"	"1.55" "2.78"	NA "3.05"	"2.4"	"2.5"	"2.8"	"2.95"
	[7267] [7274] [7281]	"1.65"	"1.55" "2.78" "3.57"	NA "3.05" "3.45"	"2.4" "4.1"	"2.5" "3.8"	"2.8" "3.82"	"2.95" "3.47"
## ## ##	[7267] [7274]	"1.65" "3" "3.05" "3.55"	"1.55" "2.78"	NA "3.05"	"2.4"	"2.5"	"2.8"	"2.95"

```
"2"
## [7302] "1.7"
                    "1.75"
                               "1.9"
                                                    "2.82"
                                                              "2.38"
                                                                        "2.32"
## [7309] "2.65"
                               "2.64"
                                         "2.58"
                                                   "2.62"
                                                              "2.8"
                                                                        "2.75"
                    "3.1"
                    "2.37"
                                                   "2.5"
## [7316] "2.69"
                               "2.5"
                                         "2.6"
                                                              "2.84"
                                                                        "2.9"
## [7323] "3.3"
                    "3.85"
                               "4.1"
                                         "4.17"
                                                    "3.35"
                                                              "3.4"
                                                                        "3.5"
## [7330] "5.23"
                    "3.15"
                               "3.2"
                                         "2.5"
                                                    "2.9"
                                                              "3.6"
                                                                        "3.35"
## [7337] "2.2"
                    "2.15"
                               "2.1"
                                         "2.7"
                                                   "2.92"
                                                              "3.52"
                                                                        "3.85"
## [7344] "4"
                    "3.8"
                               "4.01"
                                         "2.9"
                                                   "3"
                                                              "3.65"
                                                                        "3.5"
## [7351] "4.28"
                    "3.92"
                               "3.5"
                                         "4.2"
                                                   "4.15"
                                                              "5.1"
                                                                        "2.91"
## [7358] "3.3"
                    "4.1"
                               "4.8"
                                         "4.49"
                                                   "3.45"
                                                              "3.7"
                                                                        "3.7"
## [7365] "3.25"
                    "3.56"
                               "2"
                                         "2.01"
                                                   "2.2"
                                                              "2.35"
                                                                        "2.84"
## [7372] "2.1"
                    "2.1"
                               "2.95"
                                         "3.51"
                                                   "3.68"
                                                              "1.58"
                                                                        "1.62"
## [7379] "1.6"
                    "1.62"
                               "1.76"
                                         "1.7"
                                                    "1.75"
                                                              "2.1"
                                                                        "2.62"
                                         "2.5"
                                                                        "1.7"
## [7386] "2.71"
                    "2.02"
                               "2.55"
                                                   "2.65"
                                                              "2.61"
## [7393] "1.94"
                    "2.35"
                               "2.27"
                                         "2.26"
                                                   "1.3"
                                                              "2.15"
                                                                        "1.95"
## [7400] "1.7"
                    "1.9"
                               "2"
                                         "2.4"
                                                   "1.75"
                                                              "2.5"
                                                                        "2.1"
## [7407] "1.8"
                    "1.2"
                               "2.25"
                                         "2.39"
                                                   "3.18"
                                                              "1.4"
                                                                        "1.85"
## [7414] "1.4"
                                         "1.9"
                                                   "1.9"
                                                              "2.2"
                                                                        "2.6"
                    NA
                               NA
                                         "1.45"
## [7421] "2.77"
                    "1.5"
                               "1.45"
                                                   "1.62"
                                                              "1.75"
                                                                        "1.75"
## [7428] "1.85"
                    "2"
                               "2.15"
                                         "2.2"
                                                    "1.76"
                                                              "1.85"
                                                                        "2"
## [7435] "2.05"
                    "2.06"
                               "1.45"
                                         "1.4"
                                                   "1.45"
                                                              "1.7"
                                                                        "1.78"
                    "1.95"
## [7442] "1.8"
                               "1.9"
                                         "1.8"
                                                   "1.96"
                                                              "1.99"
                                                                        "2.11"
## [7449] "2"
                                         "2.82"
                                                   "3.1"
                                                              "3"
                                                                        "3.1"
                    NA
                               NA
## [7456] "2.86"
                    "1.6"
                               "1.6"
                                         "1.6"
                                                                        "1.6"
                                                   "1.72"
                                                              "1.93"
## [7463] "1.6"
                    "1.6"
                               "1.7"
                                         "2.1"
                                                   "1.81"
                                                              "1.92"
                                                                        "1.85"
                                                              "4"
                               "3.23"
## [7470] "2.15"
                    "2.33"
                                         "3.74"
                                                   "3.81"
                                                                        "3.91"
## [7477] "2.9"
                    "3.15"
                               "3.85"
                                         "3.35"
                                                   "3.88"
                                                              "1.89"
                                                                        "2.49"
                                                                        "3.35"
## [7484] "2.65"
                    "2.56"
                               "3.06"
                                         "2.65"
                                                   "2.45"
                                                              "3.65"
## [7491] "4.3"
                    "3"
                               "2.12"
                                         "2.98"
                                                                        "2.54"
                                                   NA
                                                              NA
                               "2"
                                                              "2"
## [7498] "1.88"
                    "2.3"
                                         "3.5"
                                                   "3.15"
                                                                        "3.4"
## [7505] "2.6"
                    "2.69"
                                         "4.36"
                              NA
```

trees\$HEIGHT <- as.numeric(trees\$HEIGHT)</pre>

Warning: NAs introduced by coercion

head(trees)

```
## # A tibble: 6 x 16
     SURVEY YEAR SITE TREATMENT BLOCK PLOT
                                               SPECIES ORIGI~1 NEW_TAG DEAD HEIGHT
##
      <dbl> <dbl> <chr> <chr>
                                  <dbl> <chr> <chr>
                                                         <dbl>
                                                                 <dbl> <chr>
                                                                              <dbl>
## 1
          1 2009 SOUTH TOTAL
                                      2 S2TOT~ Acacia~
                                                             1
                                                                    NA N
                                                                               3.4
          2 2010 SOUTH TOTAL
                                      2 S2TOT~ Acacia~
                                                                    NA N
                                                                               3.32
                                                             1
          3 2011 SOUTH TOTAL
## 3
                                      2 S2TOT~ Acacia~
                                                                    NA N
                                                                               3.65
                                                             1
## 4
          4 2012 SOUTH TOTAL
                                      2 S2TOT~ Acacia~
                                                                    NA N
                                                                               3.74
                                                             1
## 5
          5 2013 SOUTH TOTAL
                                      2 S2TOT~ Acacia~
                                                                    NA N
                                                                               3.59
                                                             1
          1 2009 SOUTH TOTAL
                                      2 S2TOT~ Acacia~
                                                             2
                                                                    NA N
                                                                                2.3
## # ... with 5 more variables: AXIS_1 <dbl>, AXIS_2 <chr>, CIRC <dbl>,
      MEASUREMENT <chr>, STEMS <chr>, and abbreviated variable name
## #
       1: ORIGINAL_TAG
```

\$Alternative Way

```
trees <- read_tsv("../data raw/TREE_SURVEYS.txt",</pre>
              col_types = list(HEIGHT = col_double(),
                             AXIS_2 = col_double()))
## Warning: One or more parsing issues, see 'problems()' for details
trees$canopy_area <- trees$AXIS_1 * trees$AXIS_2</pre>
head(trees)
## # A tibble: 6 x 17
   SURVEY YEAR SITE TREATMENT BLOCK PLOT SPECIES ORIGI~1 NEW_TAG DEAD HEIGHT
     <dbl> <dbl> <chr> <chr> <dbl> <chr> <chr>
                                                    <dbl> <dbl> <dbl> <dbl>
         1 2009 SOUTH TOTAL
## 1
                               2 S2TOT~ Acacia~
                                                      1
                                                              NA N
                                                                         3.4
         2 2010 SOUTH TOTAL
## 2
                                 2 S2TOT~ Acacia~
                                                       1
                                                              NA N
                                                                         3.32
                                 2 S2TOT~ Acacia~
         3 2011 SOUTH TOTAL
                                                       1
## 3
                                                             NA N
                                                                         3.65
         4 2012 SOUTH TOTAL
                                                             NA N
## 4
                                 2 S2TOT~ Acacia~
                                                       1
                                                                         3.74
## 5
         5 2013 SOUTH TOTAL
                                 2 S2TOT~ Acacia~
                                                             NA N
                                                                         3.59
                                                       1
       1 2009 SOUTH TOTAL
## 6
                                 2 S2TOT~ Acacia~
                                                       2
                                                             NA N
                                                                         2.3
## # ... with 6 more variables: AXIS 1 <dbl>, AXIS 2 <dbl>, CIRC <dbl>,
## # MEASUREMENT <chr>, STEMS <chr>, canopy_area <dbl>, and abbreviated variable
## # name 1: ORIGINAL TAG
numbers <- 1:10
numbers [c(1:3, 5:10)]
## [1] 1 2 3 5 6 7 8 9 10
numbers[-4]
## [1] 1 2 3 5 6 7 8 9 10
trees [1:3,-(5:10)]
## # A tibble: 3 x 11
   SURVEY YEAR SITE TREATMENT HEIGHT AXIS_1 AXIS_2 CIRC MEASUR~1 STEMS canop~2
     <dbl> <dbl> <chr> <dbl> <dbl> <dbl> <dbl> <dbl> <chr>
                                                                <chr> <dbl>
         1 2009 SOUTH TOTAL
                                 3.4
                                                                         30.5
## 1
                                       6.1
                                              5
                                                   37.8 D
                                                                1
## 2
         2 2010 SOUTH TOTAL
                                 3.32
                                       8.25 8.45 18.8 D
                                                                1
                                                                         69.7
## 3
         3 2011 SOUTH TOTAL
                                 3.65
                                       8.85
                                                   57 C
                                                                         79.6
                                            9
                                                                1
## # ... with abbreviated variable names 1: MEASUREMENT, 2: canopy_area
subset(trees, select =c (SURVEY, YEAR, SITE, canopy_area))
## # A tibble: 7,508 x 4
     SURVEY YEAR SITE canopy_area
      <dbl> <dbl> <chr>
##
                            <dbl>
## 1
         1 2009 SOUTH
                            30.5
          2 2010 SOUTH
## 2
                            69.7
## 3
         3 2011 SOUTH
                           79.6
```

```
##
   5
           5 2013 SOUTH
                                40.8
              2009 SOUTH
                                 6.16
   7
           2 2010 SOUTH
                                 7.29
##
##
              2011 SOUTH
                                12.5
##
             2012 SOUTH
                                NA
           5 2013 SOUTH
                                 9.62
## # ... with 7,498 more rows
trees2 <- trees[,c("SURVEY", "YEAR", "SITE", "canopy_area")]</pre>
```

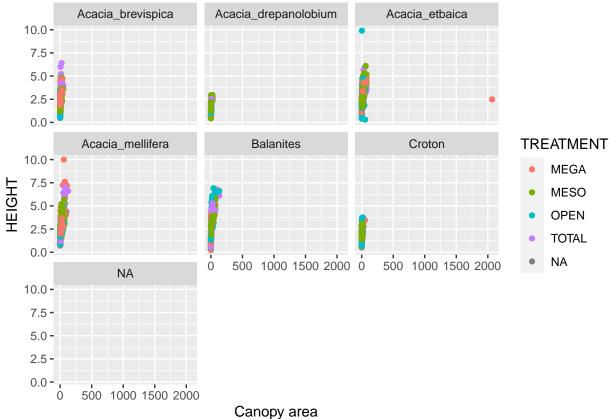
39.0

4 2012 SOUTH

##

```
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()').

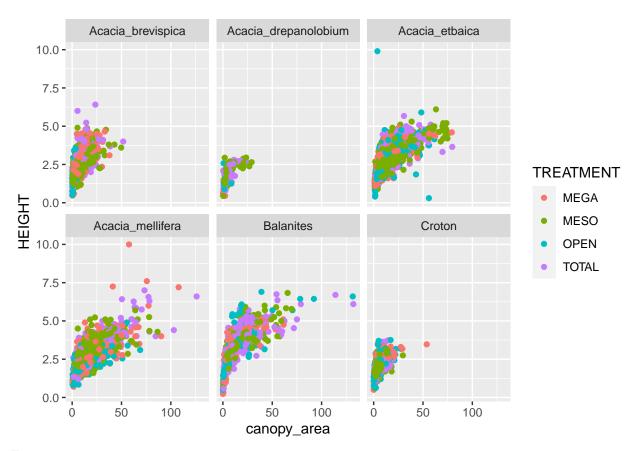


```
#or we can do this with teh subset function
trees3 <- subset(trees, canopy_area <=400)</pre>
# or finding the actual value that is the outlier
which(trees$canopy_area > 2000)
```

[1] 3839

```
trees4 <- trees[-3839,]
```

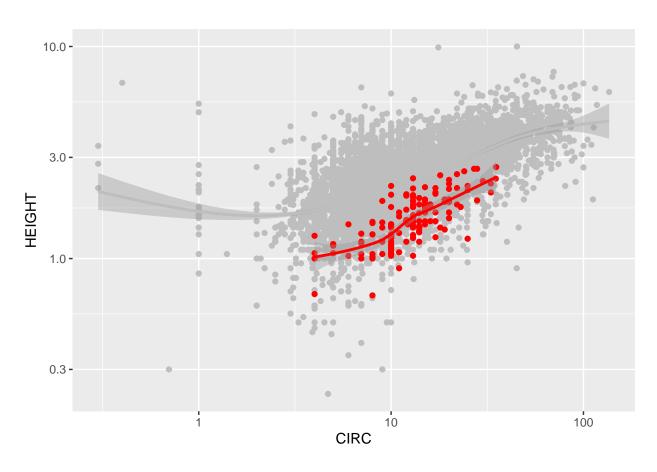
```
trees3 <- subset(trees, canopy_area <= 400)
ggplot(data = trees3, mapping = aes(x = canopy_area, y= HEIGHT, color = TREATMENT)) + geom_point() + fa</pre>
```



Exercise 4

```
ggplot() +
geom_point(data = trees,
mapping = aes(x = CIRC , y = HEIGHT), color = "gray") + geom_smooth(data = trees,
mapping = aes(x = CIRC , y = HEIGHT), color = "gray") + geom_point(data = acacia,
mapping = aes(x = CIRC , y = HEIGHT ), color = "red") + geom_smooth(data = acacia,
mapping = aes(x = CIRC , y = HEIGHT ), color = "red") + scale_x_log10() + scale_y_log10() + geom_smooth()
## 'geom_smooth()' using method = 'gam' and formula = 'y ~ s(x, bs = "cs")'
## Warning: Removed 414 rows containing non-finite values ('stat_smooth()').
## 'geom_smooth()' using method = 'loess' and formula = 'y ~ x'
## Warning: Removed 4 rows containing non-finite values ('stat_smooth()').
## Warning: Removed 414 rows containing missing values ('geom_point()').
```

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



labs(x = "Circumference (cm)", y = "Height (m)", title = "Circumference to the Height Relationship of A

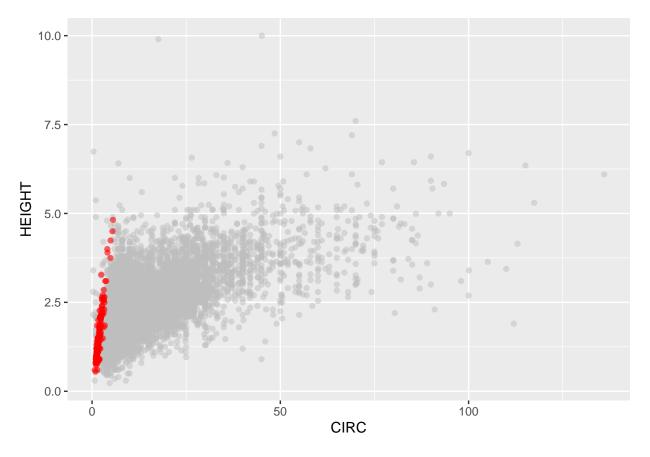
```
## $x
## [1] "Circumference (cm)"
##
## $y
## [1] "Height (m)"
##
## $title
## [1] "Circumference to the Height Relationship of Acacia"
##
## attr(,"class")
## [1] "labels"
```

Exercise 4 - Making the scatter plot in class

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

```
trees <- read_tsv("../data raw/TREE_SURVEYS.txt",</pre>
              col_types = list(HEIGHT = col_double(),
                             AXIS_2 = col_double()))
## Warning: One or more parsing issues, see 'problems()' for details
Visual Quality assurance and control with the function str()
str(acacia)
## 'data.frame':
                  157 obs. of 15 variables:
## $ SURVEY : int 1 1 1 1 1 1 1 1 1 ...
## $ YEAR
             : chr "SOUTH" "SOUTH" "SOUTH" ...
## $ SITE
## $ BLOCK
           : int 1 1 1 1 1 1 1 1 1 1 ...
## $ TREATMENT: chr "TOTAL" "TOTAL" "TOTAL" "TOTAL" ...
## $ PLOT : chr "S1TOTAL" "S1TOTAL" "S1TOTAL" "S1TOTAL" ...
             : int 581 582 3111 3112 3113 3114 3115 3199 941 942 ...
## $ ID
## $ HEIGHT : num 2.25 2.65 1.5 2.01 1.75 1.65 1.2 1.45 1.87 2.38 ...
## $ AXIS1 : num 2.75 4.1 1.7 1.8 1.84 1.62 1.95 2 2.15 5.55 ...
## $ AXIS2
             : num 2.15 3.9 0.85 1.6 1.42 0.85 0.9 1.75 1.82 4.82 ...
## $ CIRC : num 20 28 17 12 13 15 9 12.2 13 35 ...
## $ FLOWERS : int 0 0 2 0 0 0 0 0 0 ...
## $ BUDS
             : int 0010000000...
## $ FRUITS
            : int 10 150 50 75 20 0 0 25 0 50 ...
            : chr "CS" "TP" "TP" "CS" ...
## $ ANT
is.numeric(acacia$CIRC)
## [1] TRUE
is.numeric(acacia$HEIGHT)
## [1] TRUE
str(trees)
## spc_tbl_ [7,508 x 16] (S3: spec_tbl_df/tbl_df/tbl/data.frame)
## $ SURVEY
               : num [1:7508] 1 2 3 4 5 1 2 3 4 5 ...
## $ YEAR
                : num [1:7508] 2009 2010 2011 2012 2013 ...
                : chr [1:7508] "SOUTH" "SOUTH" "SOUTH" ...
## $ SITE
## $ TREATMENT
               : chr [1:7508] "TOTAL" "TOTAL" "TOTAL" "TOTAL" ...
## $ BLOCK
                : num [1:7508] 2 2 2 2 2 2 2 2 2 2 ...
## $ PLOT
                : chr [1:7508] "S2TOTAL" "S2TOTAL" "S2TOTAL" "S2TOTAL" ...
             : chr [1:7508] "Acacia_etbaica" "Acacia_etbaica" "Acacia_etbaica" "Acacia_etbaica" ..
## $ SPECIES
## $ ORIGINAL_TAG: num [1:7508] 1 1 1 1 1 2 2 2 2 2 ...
## $ NEW_TAG : num [1:7508] NA ...
## $ DEAD
               : chr [1:7508] "N" "N" "N" "N" ...
```

```
: num [1:7508] 3.4 3.32 3.65 3.74 3.59 2.3 2.32 2.75 NA 2.86 ...
## $ HEIGHT
## $ AXIS 1
                : num [1:7508] 6.1 8.25 8.85 5.5 5 2.2 2.75 3.3 NA 3.7 ...
## $ AXIS 2
                : num [1:7508] 5 8.45 9 7.1 8.15 2.8 2.65 3.8 NA 2.6 ...
                 : num [1:7508] 37.8 18.8 57 60 55 14.2 18.4 25 NA 31 ...
## $ CIRC
## $ MEASUREMENT : chr [1:7508] "D" "D" "C" "C" ...
                : chr [1:7508] "1" "1" "1" "1" ...
## $ STEMS
## - attr(*, "spec")=
##
    .. cols(
##
         SURVEY = col_double(),
    . .
##
    .. YEAR = col_double(),
    .. SITE = col_character(),
##
         TREATMENT = col_character(),
##
##
    .. BLOCK = col_double(),
##
    .. PLOT = col_character(),
##
         SPECIES = col_character(),
##
         ORIGINAL_TAG = col_double(),
    . .
##
    .. NEW_TAG = col_double(),
##
    .. DEAD = col character(),
##
       HEIGHT = col_double(),
##
    . .
        AXIS_1 = col_double(),
##
    .. AXIS_2 = col_double(),
##
    .. CIRC = col_double(),
       MEASUREMENT = col_character(),
##
##
       STEMS = col_character()
    . .
##
    ..)
## - attr(*, "problems")=<externalptr>
is.numeric(trees$CIRC)
## [1] TRUE
is.numeric(trees$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()').
```



```
ggplot(data = trees, mapping = aes(x= CIRC, y= HEIGHT), color = "gray", alpha = 0.5) +
  geom_point( color = "gray") +
  geom_point(data = acacia, mapping = aes (x = CIRC, y=HEIGHT), color = "red", alpha = 0.6) +
  scale_x_log10() +
  scale_y_log10() +
  geom_smooth(method = "lm") +
  geom_smooth(data = acacia, mapping = aes(x= CIRC, y= HEIGHT), method = "lm")

## 'geom_smooth()' using formula = 'y ~ x'

## Warning: Removed 414 rows containing non-finite values ('stat_smooth()').

## 'geom_smooth()' using formula = 'y ~ x'

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

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

