R. Notebook

This is an R Markdown Notebook. When you execute code within the notebook, the results appear beneath the code.

Try executing this chunk by clicking the Run button within the chunk or by placing your cursor inside it and pressing Ctrl+Shift+Enter.

```
#commented as it asks for restarting R
#install.packages("remotes")
#remotes::install qithub("Shreya-Vaish/BSE658") #saves them to temp, how can i check?
library(tidyverse)
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr
             1.1.4
                        v readr
                                    2.1.5
## v forcats 1.0.0
                        v stringr
                                    1.5.1
## v ggplot2 3.5.1
                        v tibble
                                    3.2.1
## v lubridate 1.9.3
                        v tidyr
                                    1.3.1
## v purrr
              1.0.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                    masks stats::lag()
## i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become error
```

```
library(dplyr)
library(tibble)
```

Add a new chunk by clicking the *Insert Chunk* button on the toolbar or by pressing Ctrl+Alt+I.

When you save the notebook, an HTML file containing the code and output will be saved alongside it (click the Preview button or press Ctrl+Shift+K to preview the HTML file).

The preview shows you a rendered HTML copy of the contents of the editor. Consequently, unlike *Knit*, *Preview* does not run any R code chunks. Instead, the output of the chunk when it was last run in the editor is displayed.

```
getwd()
```

[1] "C:/Users/ushad/Documents/GitHub/BSE658/Module 1"

```
smokeban<-read_csv("C:\\Users\\ushad\\Downloads\\SmokeBan.csv")</pre>
```

```
## Rows: 10000 Columns: 8
## -- Column specification ------
## Delimiter: ","
## chr (6): smoker, ban, education, afam, hispanic, gender
## dbl (2): rownames, age
```

```
##
## 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.
#use double backslash or forward slashes
spec(smokeban)
## cols(
##
     rownames = col_double(),
##
     smoker = col_character(),
     ban = col_character(),
##
##
     age = col_double(),
##
     education = col_character(),
##
     afam = col_character(),
##
     hispanic = col_character(),
     gender = col_character()
## )
#?cols_condense
#?spec
smokeban
## # A tibble: 10,000 x 8
##
      rownames smoker ban
                              age education
                                                afam hispanic gender
##
         <dbl> <chr> <dbl> <chr> <dbl> <chr>
                                                <chr> <chr>
                                                               <chr>
## 1
                                                               female
             1 yes
                               41 hs
                      yes
                                                no
                                                      no
                                                               female
## 2
             2 yes
                               44 some college no
                      yes
                                                      no
                                                               female
## 3
             3 no
                               19 some college no
                      no
                                                      no
## 4
             4 ves
                      no
                               29 hs
                                                no
                                                      no
                                                               female
## 5
             5 no
                               28 some college no
                                                               female
                      yes
                                                      no
## 6
                               40 some college no
                                                               male
             6 no
                                                      no
                      no
## 7
             7 yes
                               47 some college no
                                                               female
                      yes
                                                      no
## 8
             8 ves
                               36 some college no
                                                               male
                      no
                                                      no
## 9
                                                               female
             9 no
                      yes
                               49 some college no
                                                      no
## 10
            10 no
                      no
                               44 some college no
                                                      nο
                                                               male
## # i 9,990 more rows
#im ok with the coltype being displayed so I am not #going to make its display false or condense it
sum(is.na(smokeban$hispanic))
## [1] 0
filter(smokeban,hispanic=="yes" & smoker=="yes")
## # A tibble: 247 x 8
##
      rownames smoker ban
                              age education
                                                afam hispanic gender
##
         <dbl> <chr> <dbl> <chr> <dbl> <chr>
                                                <chr> <chr>
                                                               <chr>
## 1
            56 yes
                               46 some college no
                                                               female
                      yes
                                                      yes
```

```
##
            85 ves
                                29 hs drop out
                                                                male
                      no
                                                no
                                                      yes
##
  3
                                28 hs drop out
                                                                male
           100 yes
                      no
                                                yes
                                                      yes
##
  4
           105 yes
                      yes
                                28 hs
                                                      yes
                                                                male
                                67 hs
## 5
           119 yes
                                                                male
                      no
                                                no
                                                      yes
##
   6
           142 yes
                      no
                                21 hs drop out no
                                                      yes
                                                                female
##
  7
                                30 some college no
                                                                female
           152 yes
                      yes
                                                      yes
                                21 hs
                                                                male
           156 yes
                      yes
                                                no
                                                      yes
                               28 hs
## 9
           161 yes
                      no
                                                no
                                                      yes
                                                                female
## 10
           163 yes
                      no
                                24 hs drop out no
                                                      yes
                                                                female
## # i 237 more rows
youngsmokers<-nrow(filter(smokeban, age<25))</pre>
newnum<-youngsmokers/(nrow(smokeban))</pre>
newnum*100 #how to write this into a string?
## [1] 11.97
#select(smokeban, c(afam, hispanic))
select(smokeban, -c(afam,hispanic))
## # A tibble: 10,000 x 6
##
      rownames smoker ban
                               age education
                                                gender
         <dbl> <chr> <dbl> <chr> <dbl> <chr>
                                                <chr>
##
##
  1
             1 yes
                      yes
                               41 hs
                                                female
## 2
             2 yes
                                44 some college female
                      yes
## 3
             3 no
                      no
                               19 some college female
## 4
                               29 hs
                                                female
             4 yes
                      no
## 5
             5 no
                      yes
                               28 some college female
                               40 some college male
##
  6
             6 no
                      no
## 7
             7 yes
                      yes
                               47 some college female
                               36 some college male
## 8
             8 yes
                      no
## 9
             9 no
                               49 some college female
                      ves
## 10
                               44 some college male
            10 no
                      no
## # i 9,990 more rows
newsel <- select (smokeban, smoker, age: afam) #afam means african american
newsel
## # A tibble: 10,000 x 4
##
      smoker
               age education
                                 afam
##
      <chr> <dbl> <chr>
                                 <chr>>
##
   1 yes
                41 hs
                                no
##
    2 yes
                44 some college no
##
                19 some college no
   3 no
##
  4 yes
                29 hs
##
  5 no
                28 some college no
##
   6 no
                40 some college no
                47 some college no
##
  7 yes
##
   8 yes
                36 some college no
## 9 no
                49 some college no
```

10 no

i 9,990 more rows

44 some college no

rename (smokeban, idk=afam)

```
## # A tibble: 10,000 x 8
##
     rownames smoker ban
                            age education
                                          idk
                                                 hispanic gender
##
        <dbl> <chr> <dbl> <chr> <dbl> <chr>
                                           <chr> <chr>
                                                          <chr>
## 1
                                                          female
          1 yes
                            41 hs
                                          no
                                                 no
                    yes
## 2
                                                         female
           2 yes
                    yes
                            44 some college no
                                                 no
## 3
           3 no
                            19 some college no
                                                         female
                    no
                                                 no
## 4
           4 yes
                    no
                            29 hs
                                           no
                                                 no
                                                         female
## 5
          5 no
                    yes
                           28 some college no
                                                 no
                                                         female
## 6
           6 no
                           40 some college no
                                                         male
                   no
                                                 no
           7 yes
## 7
                           47 some college no
                    yes
                                                 no
                                                         female
## 8
                           36 some college no
                                                         male
           8 yes
                                                 no
                    no
## 9
           9 no
                    yes
                           49 some college no
                                                 no
                                                         female
## 10
           10 no
                    no
                           44 some college no
                                                 no
                                                         male
## # i 9,990 more rows
```

smokeban

```
## # A tibble: 10,000 x 8
     rownames smoker ban
                           age education afam hispanic gender
##
        <dbl> <chr> <dbl> <chr> <dbl> <chr>
                                                         <chr>
                                          <chr> <chr>
                    yes
## 1
           1 ves
                            41 hs
                                          no
                                                no
                                                         female
## 2
                            44 some college no
                                                         female
          2 yes
                    yes
                                                no
                           19 some college no
## 3
          3 no
                    no
                                                no
                                                         female
## 4
          4 yes
                           29 hs
                                                         female
                    no
                                           no
                                                no
                           28 some college no
## 5
          5 no
                    yes
                                                         female
                                                no
## 6
          6 no
                    no
                           40 some college no no
                                                        male
## 7
           7 yes
                           47 some college no
                                                        female
                    yes
                                                no
## 8
           8 yes
                            36 some college no
                                                no
                                                         male
                    no
## 9
           9 no
                    yes
                            49 some college no
                                                no
                                                         female
## 10
           10 no
                            44 some college no
                                                         male
                    no
                                                no
## # i 9,990 more rows
```

#rename only shows a temporary change, in order to save #it, you need to assign it the the file like sm #or assign to a new variable

getwd()

[1] "C:/Users/ushad/Documents/GitHub/BSE658/Module 1"

phddata<-read_csv("C:\\Users\\ushad\\Downloads\\PhDPublications.csv")</pre>

```
## Rows: 915 Columns: 7
## -- Column specification ------
## Delimiter: ","
## chr (2): gender, married
## dbl (5): rownames, articles, kids, prestige, mentor
##
## 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.
```

phddata

```
## # A tibble: 915 x 7
     rownames articles gender married kids prestige mentor
                                              <dbl> <dbl>
##
        <dbl>
                 <dbl> <chr> <chr>
                                     <dbl>
            1
                    0 male
                                        0
                                              2.52
  1
                             ves
## 2
            2
                    O female no
                                              2.05
                                         0
                                                        6
## 3
            3
                    0 female no
                                         0
                                              3.75
## 4
            4
                    0 male
                             yes
                                         1
                                              1.18
## 5
            5
                    O female no
                                         0
                                              3.75
                                                       26
            6
                                         2
                                              3.59
                                                        2
## 6
                    O female yes
## 7
            7
                    O female no
                                         0
                                              3.19
                                                        3
                                         2
                                             2.96
## 8
            8
                    0 male
                             yes
## 9
            9
                    0 male
                                         0
                                             4.62
                                                        6
                             no
## 10
           10
                    O female yes
                                         0
                                              1.25
                                                        0
## # i 905 more rows
```

newphddata<-mutate(phddata, success_dependency = prestige/mentor)
#mutate does not work unless you assign a variable to #the changed dataframe
arrange(newphddata, success_dependency)</pre>

```
## # A tibble: 915 x 8
##
     rownames articles gender married kids prestige mentor success_dependency
##
        <dbl>
                 <dbl> <chr> <chr>
                                     <dbl>
                                              <dbl> <dbl>
                                                                       <dbl>
## 1
          328
                     1 male
                             yes
                                         1
                                              1.78
                                                       77
                                                                      0.0231
## 2
          812
                     4 male
                             yes
                                         1
                                              1.86
                                                       47
                                                                      0.0396
## 3
          909
                                         1 1.86
                     9 male
                                                       47
                                                                      0.0396
                             yes
## 4
          915
                    19 male
                                         0 1.86
                                                       42
                                                                      0.0443
                             yes
## 5
                    6 female yes
                                         2 1.86
                                                                      0.0489
          880
                                                       38
                                         0 1.68
## 6
          303
                    1 male
                             ves
                                                       34
                                                                      0.0494
## 7
          799
                     4 male
                                         1 2.96
                                                       57
                                                                      0.0519
                             yes
## 8
                                         0 0.755
                                                       13
                                                                      0.0581
          12
                     O female no
                                         0
## 9
          879
                                              2.10
                                                                      0.0583
                     6 female yes
                                                       36
          232
                                              1.68
                                                       27
                                                                      0.0622
## 10
                     0 male
                             yes
                                         1
## # i 905 more rows
```

#prestige is for the grduate program and mentor means #number of papers a mentor has published

arrange(newphddata,desc(success_dependency))

```
## # A tibble: 915 x 8
##
     rownames articles gender married kids prestige mentor success_dependency
##
        <dbl>
                 <dbl> <chr> <chr>
                                      <dbl>
                                               <dbl> <dbl>
                                                                         <dbl>
## 1
           10
                     0 female yes
                                          0
                                                1.25
                                                          0
                                                                          Inf
           15
                     O female yes
                                                1.79
## 2
                                                          0
                                                                          Inf
                                          0
## 3
           29
                     0 female no
                                          0
                                                3.09
                                                          0
                                                                          Inf
## 4
           31
                     0 female no
                                               2.39
                                          0
                                                                          Inf
## 5
           34
                     0 male
                                          0
                                               2.10
                                                         0
                                                                          Tnf
                              no
## 6
           35
                     0 male
                              yes
                                          1
                                              1.52
                                                         0
                                                                          Inf
                     0 female no
## 7
           36
                                                          0
                                                                          Inf
                                          0
                                               2
## 8
           37
                    0 female no
                                          0
                                               1.75
                                                                          Inf
```

```
## 9 46 0 male yes 1 1.18 0 Inf
## 10 52 0 female yes 2 1.97 0 Inf
## # i 905 more rows
```

#there are infinite values because some mentors have 0 #published papers!

getwd()

[1] "C:/Users/ushad/Documents/GitHub/BSE658/Module 1"

read.csv(file="C:/Users/ushad/Documents/GitHub/BSE658/Module 2/newphddata.csv")

##		Х	rownames	articles	gender	married	kids	prestige	mentor
##	1	1	1	0	male	yes	0	2.520	7
##	2	2	2	0	female	no	0	2.050	6
##	3	3	3	0	female	no	0	3.750	6
##	4	4	4	0	male	yes	1	1.180	3
##	5	5	5	0	female	no	0	3.750	26
##	6	6	6	0	female	yes	2	3.590	2
##	7	7	7	0	female	no	0	3.190	3
##	8	8	8	0	male	yes	2	2.960	4
##	9	9	9	0	male	no	0	4.620	6
##	10	10	10	0	${\tt female}$	yes	0	1.250	0
##	11	11	11	0	male	no	0	2.960	14
##	12	12	12	0	${\tt female}$	no	0	0.755	13
##	13	13	13	0	${\tt female}$	yes	1	3.690	3
##	14	14	14	0	${\tt female}$	yes	0	3.400	4
##	15	15	15	0	${\tt female}$	yes	0	1.790	0
##	16	16	16	0	${\tt female}$	no	0	3.090	1
##	17	17	17	0	${\tt female}$	yes	0	2.000	7
##	18	18	18	0	male	yes	2	4.290	13
##	19	19	19	0	${\tt female}$	no	0	3.360	7
##	20	20	20	0	${\tt female}$	no	0	4.290	9
##	21	21	21	0	female	yes	0	2.260	6
##	22	22	22	0	male	yes	3	2.960	3
##	23	23	23	0	male	yes	1	4.290	5
##	24	24	24	0	male	yes	1	2.860	4
##	25	25	25	0	male	yes	3	2.760	1
##	26	26	26	0	female	yes	0	1.520	3
##	27	27	27	0	female	yes	1	3.540	8
##	28	28	28	0	male	yes	1	4.290	3
##	29	29	29	0	female	no	0	3.090	0

##		30	30	0	male	yes	0	2.320	3
##	31	31	31	0	female	no	0	2.390	0
##	32	32	32	0	male	yes	0	4.290	8
##	33	33	33	0	female	no	0	1.505	13
##	34	34	34	0	male	no	0	2.100	0
##	35	35	35	0	male	yes	1	1.520	0
##	36	36	36	0	female	no	0	2.000	0
##	37	37	37	0	female	no	0	1.750	0
##	38	38	38	0	male	no	0	4.290	9
##	39	39	39	0	male	yes	1	1.220	2
	40	40	40	0	female	yes	0	3.750	5
##	41	41	41	0	male	no	0	4.290	9
##	42	42	42	0	female	yes	1	2.860	3
##	43	43	43	0	male	no	0	3.920	5
##	44	44	44	0	female	yes	1	3.360	3
##	45	45	45	0	male	no	0	2.100	6
##	46	46	46	0	male	yes	1	1.180	0
##	47	47	47	0	male	yes	0	2.500	1
	48	48	48	0	male	yes	0	3.360	25
	49	49	49	0	female	no	0	4.540	14
##	50	50	50	0	female	yes	0	3.920	8
	51	51	51	0	male	no	0	4.540	5
	52	52	52	0	female	yes	2	1.970	0
	53	53	53	0	male	yes	2	2.960	12
##	54	54	54	0	male	yes	0	4.290	8
##	55	55	55	0	male	yes	1	2.260	2
##	56	56	56	0	female	no	0	2.120	11
##	57	57	57	0	female	no	0	3.210	2
##	58	58	58	0	male	yes	1	3.150	1
##	59	59	59	0	male	yes	1	3.920	1
##	60	60	60	0	male	no	0	2.960	0
##	61	61	61	0	female	no	0	2.860	6
##	62	62	62	0	male	yes	1	2.100	0
##	63	63	63	0	female	no	0	3.750	4
##	64 65	64 65	64	0	female	yes	0	3.540	2
##	65	65 66	65 66	0	female	yes	0	2.540	1
##	66	66 67	66 67	0	male	yes	1	2.760	
##		67	67	0	male	yes	0	4.540	10
	68	68	68	0	male	yes	0	1.680	6
	69 70	69 70	69 70	0	male	yes	1	2.200	0
	70 71	70 71	70 71	0	female	no	0	1.005	0
	71 72	71 72	71 72	0	male	no	0	2.120	2
	73	73	72 73	0	female female	yes	2	2.580 1.790	0 1
	74	73 74	73 74	0	male	yes	0		2
	7 5	7 4 75	7 4 75	0	female	no	0	4.290	4
	76	76	76	0	male	yes	2	1.280 2.580	5
	77	76 77	70 77	0	male	yes	2	2.120	0
	78	78	78	0	male	yes	1	2.120	1
	79	70 79	70 79	0	male	yes	1	2.210	5
	80	80	7 <i>9</i> 80	0	female	yes	0	3.210	5
	81	81	81	0	female	no no	0	2.100	2
	82	82	82	0	female		1	3.540	1
##		83	83	0	male	yes	1	3.400	18
##	03	03	03	U	шате	yes	Т	3.400	10

##	84	84	84	0	male	yes	0	2.210	6
##		85	85	0	male	Ū	0	2.210	19
	86	86	86			yes			1
				0	male	yes	2	0.920	
	87	87	87	0	female	no	0	4.290	35
##	88	88	88	0	male	yes	2	3.150	6
##	89	89	89	0	male	yes	0	4.290	19
##	90	90	90	0	male	yes	1	2.510	8
##	91	91	91	0	male	yes	1	4.290	1
##	92	92	92	0	female	yes	0	2.760	0
##	93	93	93	0	male	yes	0	1.420	3
##	94	94	94	0	male	yes	0	2.210	19
##	95	95	95	0	male	no	0	4.140	5
##	96	96	96	0	male	yes	0	1.520	7
##	97	97	97	0	male	no	0	4.620	8
##	98	98	98	0	female	no	0	3.620	7
##	99	99	99	0	female	yes	2	3.750	4
##	100	100	100	0	male	yes	0	4.290	8
##	101	101	101	0	female	no	0	3.750	5
##	102		102	0	male	yes	1	2.100	0
##	103		103	0	male	yes	2	1.400	7
##	104		104	0	female	yes	0	3.190	4
##	105		105	0	male	yes	2	1.810	1
##	106		106	0	male	yes	1	3.150	2
##	107		107	0	female	•	0	3.750	7
##	108		108	0	female	yes	0	2.050	6
##	100		109	0	male	no	3	2.210	3
##	110		110	0	female	yes	2	3.360	2
##	111		111	0	female	yes	0	3.470	11
##	112				female	yes			
			112	0		no	0	2.120	0
##	113		113	0	female	yes	1	3.360	2
##	114		114	0	male	yes	0	2.540	5
##		115	115	0	male	yes	2	2.150	4
##		116	116	0	male	yes	1	4.540	3
##	117		117	0	male	yes	0	1.680	4
##		118	118	0	female	yes	1	2.550	0
##		119	119	0	female	no	0	2.120	11
##	120	120	120	0	male	yes	1	3.470	2
##		121	121	0	female	yes	0	3.470	1
##	122		122	0	female	no	0	3.360	9
##	123		123	0	male	yes	1	2.120	10
##	124		124	0	female	no	0	2.100	1
##	125	125	125	0	female	no	0	4.290	1
##	126		126	0	male	yes	1	2.860	13
##	127	127	127	0	female	yes	1	4.290	9
##	128	128	128	0	male	yes	0	3.210	2
##	129	129	129	0	male	no	0	2.100	0
##	130	130	130	0	${\tt female}$	yes	0	1.810	5
##	131	131	131	0	female	no	0	2.520	2
##	132	132	132	0	male	yes	1	3.360	23
##	133	133	133	0	female	yes	0	4.540	4
##	134		134	0	female	yes	1	4.290	4
##	135		135	0	female	no	0	2.120	9
##	136		136	0	male	yes	2	4.620	30
##	137		137	0	female	yes	1	3.590	14
						J			

##	138	138	138	0	female	no	0	3.590	4
##	139		139	0	male	yes	3	2.860	1
##	140		140	0	female	no	0	1.505	3
##	141		141	0	female	yes	1	2.500	0
##	142		142	0	female	yes	0	4.620	0
##	143		143	0	male	no	0	2.500	0
##	144		144	0	female	yes	1	3.360	3
##	145		145	0	female	no	0	2.000	2
##	146		146	0	female	yes	2	3.410	5
##	147		147	0	male	yes	0	2.100	0
##		148	148	0	female	no	0	2.000	2
##		149	149	0	male	yes	0	3.360	2
##	150		150	0	male	yes	3	3.590	7
##	151		151	0	male	no	0	2.140	2
##	152		152	0	female	yes	0	3.590	12
##	153		153	0	female	no	0	2.390	10
##	154		154	0	male	yes	3	4.540	11
##		155	155	0	male	no	0	2.960	2
##	156		156	0	male	yes	1	2.210	5
##	157		157	0	male	yes	2	3.690	5
##	158		158	0	female	yes	0	1.780	1
##	159		159	0	female	no	0	2.860	11
##	160		160	0	male	yes	0	2.860	8
##	161		161	0	female	-	0	2.580	3
##	162		162	0	female	yes no	0	3.750	1
##	163		163	0	female		1	1.220	11
##	164		164	0	female	yes no	0	2.100	9
##		165	165	0	female	no	0	3.590	18
##		166	166	0	female	no	0	3.540	5
##		167	167	0	female	no	0	2.860	16
##		168	168	0	female	yes	0	1.860	6
##		169	169	0	male	yes	0	2.960	0
##		170	170	0	female	yes	0	3.690	7
##		171	171	0	female	yes	0	3.690	2
##		172	172	0	female	•	0	4.290	1
##		173	173	0	female	yes no	0	2.520	1
##	174		174	0	female	no	0	1.760	10
##		175	175	0	male	yes	2	2.320	2
##	176		176	0	female	no	0	3.690	2
##	177		177	0	female	no	0	3.750	14
##	178		178	0	female	no	0	4.290	5
##	179		179	0	female	yes	2	4.540	6
##	180		180	0	male	yes	1	2.100	0
##		181	181	0	female	yes	1	2.540	0
##	182		182	0	male	yes	1	2.210	19
##	183		183	0	male	no	0	4.540	8
##	184		184	0	male	yes	1	2.100	12
##	185		185	0	male	no	0	2.260	5
##	186		186	0	female	yes	1	4.620	15
##	187		187	0	female	no	0	2.760	4
##	188		188	0	female	no	0	4.290	12
##	189		189	0	female	no	0	0.755	0
##	190		190	0	female	yes	0	1.830	2
##	191		191		female	no	0	1.790	0
				•		110	•		•

	192		192		female	yes	1	4.290	6
##	193		193	0	female	no	0	2.500	0
##		194	194	0	male	yes	0	2.140	1
##		195	195	0	male	yes	2	3.400	13
##		196	196	0	female	no	0	2.870	15
##	197		197	0	female	yes	0	2.960	0
##		198	198	0	female	yes	2	3.190	0
##		199	199	0	male	yes	1	3.690	16
##	200		200	0	female	yes	2	1.255	0
##	201		201	0	male	yes	2	4.140	12
##	202		202	0	male	yes	1	2.390	5
##	203		203	0	male	yes	2	3.920	2
##	204		204	0	female	no	0	2.960	4
##	205		205	0	female	yes	0	2.120	2
##	206		206	0	female	yes	2	2.120	1
##	207		207	0	female	yes	0	2.610	3
##	208		208	0	male	no	0	4.290	0
##	209		209	0	male	yes	3	2.860	7
##	210		210	0	female	yes	0	2.390	0
##	211		211	0	male	yes	2	3.340	1
##	212		212	0	female	no	0	3.620	8
	213		213	0	female	yes	1	3.590	8
	214		214	0	male	yes	2	4.540	1
	215		215	0	female	yes	0	3.590	1
	216		216	0	male	no	0	4.290	9
##	217		217	0	male	yes	0	1.520	4
##	218		218	0	male	yes	0	4.290	6
##	219		219	0	female	yes	0	4.620	5
##	220		220	0	male	yes	1	4.290	13
##	221		221	0	male	yes	0	2.510	3
##	222		222	0	male	no	0	2.860	3
##	223		223	0	female	yes	0	2.960	8
##	224		224	0	female	yes	0	3.690	3
##	225		225	0	female	yes	0	3.470	2
##	226		226	0	male	yes	2	4.290	15
##	227		227	0	male	no	0	4.290	0
	228		228	0	female	no	0	3.920	1
	229		229	_	female	yes	0	2.000	6
	230		230	0	male	yes	0	2.320	4
	231		231	0	female	yes	1	2.000	9
	232		232	0	male	yes	1	1.680	27
	233		233	0	male	no	0	3.470	0
	234		234	0	male	yes	0	2.200	2
	235		235	0	male	yes	1	2.120	10
##	236		236	0	female	no	0	1.400	14
##	237		237	0	female	no	0	3.360	3
##	238		238	0	male	yes	2	4.290	24
##	239		239	0	male	yes	1	2.100	0
##	240		240	0	male	no	0	4.290	5
##	241		241	0	female	no	0	4.290	0
##	242		242	0	female	no	0	2.830	1
	243		243	0	male	yes	1	2.580	6
	244		244	0	female	yes	0	3.150	7
##	245	245	245	0	male	no	0	4.290	2

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·	##						yes			
## 299 299	##						yes	3		
	##	299	299	299	1	male	no	0	4.290	3

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	300		300	1	male	no	0	1.810	10
##	301		301	1	female	no	0	2.320	15
##	302	302	302	1	female	yes	0	2.610	7
##	303	303	303	1	male	yes	0	1.680	34
##	304	304	304	1	female	yes	0	3.190	3
##	305	305	305	1	male	yes	1	3.590	5
##	306	306	306	1	male	yes	0	2.500	0
##	307		307	1	male	no	0	3.400	6
##	308		308		female	no	0	2.260	4
##	309			1					12
			309		male	no	0	3.400	
##	310		310	1	male	yes	1	3.920	0
##	311		311	1	male	yes	2	2.960	0
##	312	312	312	1	male	no	0	4.290	15
##	313	313	313	1	${\tt male}$	yes	0	4.290	11
##	314	314	314	1	female	yes	1	3.320	24
##	315	315	315	1	male	no	0	1.860	15
##	316	316	316	1	female	no	0	2.870	6
##	317	317	317	1	female	yes	0	1.640	22
##	318	318	318	1	female	no	0	2.250	7
##	319	319	319	1	female	no	0	2.100	8
##	320	320	320	1	female	yes	0	4.290	6
##	321		321	1	male	yes	0	1.750	3
##	322		322	1	male	yes	0	2.960	8
##	323		323	1	female	no	0	2.250	4
##	324		324	1	male		2	4.250	20
						yes			
##	325		325	1	male	yes	2	2.560	22
##	326		326	1	female	no	0	3.190	11
##	327		327	1	male	yes	2	3.920	2
##	328		328	1	male	yes	1	1.780	77
##	329	329	329	1	female	yes	0	3.400	14
##	330	330	330	1	${\tt male}$	yes	1	1.740	4
##	331	331	331	1	male	no	0	4.290	6
##	332	332	332	1	female	no	0	2.000	6
##	333	333	333	1	female	yes	0	2.870	18
##	334	334	334	1	male	yes	0	4.290	6
##	335	335	335	1	female	yes	0	3.190	2
##	336		336	1	male	yes	1	1.220	1
##	337		337	1	female	yes	2	3.540	17
##	338		338	1	male	yes	1	4.290	1
##	339		339	1	male	yes	1	4.620	3
##	340		340	1	female	no	0	2.000	6
##	341		341		female		0	3.590	3
						no			
##	342		342	1	female	no	0	3.190	6
##	343		343	1	male	yes	1	3.400	2
##	344		344	1	female	yes	0	1.280	2
##	345		345	1	male	yes	2	1.740	4
##	346		346	1	male	yes	1	2.260	1
##	347		347	1	female	yes	0	3.590	5
##	348		348	1	male	yes	1	4.620	16
##	349		349	1	${\tt female}$	no	0	1.400	2
##	350	350	350	1	${\tt female}$	no	0	0.920	4
##	351	351	351	1	male	yes	1	2.390	3
##	352	352	352	1	male	yes	0	2.260	1
##	353		353	1	male	yes	2	2.860	7
						•			

##	354	35/	354	1	male	yes	2	2.760	8
##	355		355	1	male	Ū	1	1.630	8
##	356		356	1		yes		4.290	12
					male	yes	2		
##	357		357	1	female	no	0	1.400	3
##	358		358	1	female	yes	0	2.120	0
##	359		359	1	female	yes	1	2.610	6
##	360		360	1	male	yes	0	1.800	1
##	361	361	361	1	female	yes	0	4.290	21
##	362	362	362	1	female	no	0	3.690	18
##	363	363	363	1	female	yes	0	4.620	16
##	364	364	364	1	male	no	0	2.150	10
##	365	365	365	1	male	yes	2	2.100	0
##	366	366	366	1	female	yes	0	2.000	5
##	367	367	367	1	female	no	0	1.255	0
##	368	368	368	1	male	yes	2	1.750	2
##	369	369	369	1	female	no	0	3.850	2
##	370	370	370	1	male	no	0	4.250	4
##	371	371	371	1	female	no	0	3.470	3
##	372	372	372	1	male	yes	1	3.920	8
##	373	373	373	1	male	yes	2	2.510	3
##	374		374	1	female	no	0	1.400	12
##	375		375	1	male	yes	1	2.000	11
##	376		376	1	female	no	0	2.000	10
##	377		377	1	male	no	0	4.290	2
##	378		378	1	male	no	0	3.360	10
##	379		379	1	male	yes	0	4.620	1
##	380		380	1	male	yes	1	2.560	16
##	381		381	1	male	yes	0	4.620	18
##	382		382	1	male	yes	0	3.590	10
##	383		383	1	male	•	2	4.290	6
##	384		384	1	female	yes no	0	3.590	8
##	385		385	1	female		0	4.290	6
##	386		386	1	male	no	0	3.190	3
##	387					yes	0		1
			387	1	female	yes		3.590	
##	388		388	1	female	yes	0	2.960	19
##	389		389	1	female	no	0	2.580	2
##	390		390	1	male	yes	3	2.960	6
##	391		391	1	female	yes	0	4.540	13
##	392		392	1	male	yes	1	4.540	10
##	393		393	1	male	yes	2	2.500	4
##	394		394	1	male	yes	0	1.680	8
##	395		395	1	male	yes	0	2.320	4
##	396		396	1	female	yes	3	3.190	9
##	397		397	1	female	no	0	2.210	2
##	398		398	1	female	yes	0	1.250	5
##	399		399	1	male	no	0	4.140	5
##	400		400	1	female	yes	0	4.620	4
##	401		401	1	female	no	0	4.540	37
##	402		402	1	female	yes	0	3.150	9
##	403		403	1	male	no	0	4.290	11
	404		404	1	female	yes	0	1.950	3
	405		405	1	male	no	0	2.000	9
	406		406	1	female	yes	0	4.540	2
##	407	407	407	1	female	yes	2	2.580	2

##	408	408	408	1	female	yes	0	3.850	29
	409		409	1	male	yes	1	3.410	10
	410		410		female	yes	1	2.260	9
	411		411	1	female	no	0	4.250	2
	412		412	1	male	yes	1	3.590	6
	413		413		female	yes	1	2.120	9
	414		414	1	male	yes	0	2.960	7
	415		415		female	no	0	2.520	0
	416		416	1		no	0	2.260	4
##	417		417	1	female	no	0	4.540	9
##	418		418	1	female	yes	2	2.860	7
##	419		419	1	male	yes	0	4.540	2
##	420		420	1	male	yes	0	3.590	12
##	421		421	1	female	yes	0	4.620	18
##	422		422	1	male	yes	3	1.670	3
##	423		423	1	male	yes	2	1.750	1
##	424		424	1	female	yes	1	2.830	5
##	425		425	1	male	yes	3	3.150	11
	426		426	1	male	yes	1	3.590	9
	427		427		female	no	0	3.750	24
	428		428	1	female	no	0	2.050	17
	429		429	1	male	yes	0	4.290	0
	430		430	1	male	yes	2	4.290	0
	431		431		female	-	0	2.390	7
	432		432	1	male	yes	1	4.540	3
	433		433	1	male	yes	0	2.320	4
	434		434		female	yes no	0	4.290	25
	435		435	1	male		1	3.690	5
	436		436	1	male	yes no	0	4.290	9
##	437		437	1	male	no	0	3.920	2
##	438		438	1	male	yes	0	2.760	5
##	439		439	1	male	no	0	2.760	6
	440		440	1	male	yes	2	3.620	4
##	441		441	1	male	yes	1	4.290	14
##	442		442	1	male	no	0	2.870	12
	443		443		female	yes	1	2.390	9
	444		444	1	male	no	0	4.290	14
	445		445	1	male	yes	0	1.780	4
	446		446	1	male	yes	1	2.100	8
	447		447	1	female	yes	0	2.250	3
	448		448	1	male	yes	1	2.260	5
	449		449	1	male	yes	0	1.860	5
	450		450	1	female	no	0	3.920	4
	451		451	1	male	yes	0	4.340	10
	452		452	1	female	no	0	3.360	4
	453		453	1	female	no	0	2.510	1
	454		454	1	female	no	0	3.750	21
	455		455	1	male	yes	1	4.540	45
	456		456	1	female	no	0	1.630	8
	457		457	1	female	no	0	4.620	10
	458		458	1	male	yes	0	1.520	2
	459		459	1	male	yes	0	2.550	11
	460		460	1	female	yes	0	1.180	1
	461		461		female	yes	2	3.090	9
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	462		462		female	no	0	4.620	5
	463		463		female	yes	0	2.320	1
	464		464	1	male	no	0	2.050	3
	465		465	1	male	yes	0	4.290	1
	466		466	1	male	no	0	3.400	2
	467		467	1	male	no	0	4.290	10
	468		468	1	male	yes	1	3.590	2
	469		469	1	male	no	0	3.360	5
	470		470	1	female	no	0	2.050	13
	471		471	1	female	yes	0	3.590	32
	472		472	1	female	no	0	3.850	18
	473		473	1	male	no	0	3.360	0
	474		474	1	female	yes	0	1.750	0
	475		475	1	female	yes	0	3.470	3
	476		476	1	male	yes	1	2.610	4
	477		477	1	male	no	0	2.760	4
	478		478	1	male	yes	2	4.290	9
	479		479	1	female	no	0	1.400	3
	480		480		female	yes	0	4.620	18
	481		481	1	male	yes	1	2.860	17
	482		482	1	male	yes	1	2.860	17
	483		483	1	male	yes	0	2.860	39
	484		484	1	male	no	0	2.000	7
	485		485	1	female	yes	0	1.760	8
	486		486	1	male	yes	0	2.500	0
	487		487	1	female	no	0	4.290	17
	488		488	1	male	no	0	2.560	16
	489		489	1	female	yes	1	3.540	14
	490		490	1	female	yes	0	3.690	1
	491		491	1	male	no	0	2.870	5
	492		492	1	female	no	0	1.655	0
	493		493	1	male	yes	1	4.340	4
	494		494	1	male	yes	0	3.540	11
	495		495	1	male	yes	2	4.290	10
	496		496	1	male	yes	0	1.810	0
##	497 4 498		497 498	1	female	no	0	3.400	7 5
	490		490 499	1	male female	yes	1	1.810 3.190	18
						no	0		
	500 501		500 501		female female	yes	1	2.320 4.540	5 19
	502		502	1	male	no	1	4.290	2
	503		503	1	male	yes	1	2.860	2
	504		503		female	yes	1	2.860	2
	505		505	1	male	yes yes	1	1.220	0
	506		506	1	male	yes	0	2.100	0
	507		507	1	male	yes	1	1.680	12
	508		508		female	no	0	3.360	34
	509		509		female	yes	0	2.870	15
	510		510	1	male	yes	1	3.470	13
	511		510	1	male	no	0	2.760	7
	512		512	1	male	yes	1	3.540	21
	513		513		female	yes	0	1.950	11
	514		514	1	male	yes	1	3.590	19
	515		515		female	no	0	3.190	3
		-		-	2		-	•	_

	516		516		female	no	0	2.760	2
	517		517		female	yes	2	4.290	13
	518		518	1	male	yes	2	3.190	5
	519		519	1	male	yes	0	2.960	0
	520		520	1	male	yes	1	2.760	7
	521		521		female	yes	0	1.810	11
	522		522	2	male	yes	0	3.360	4
	523		523	2	male	no	0	3.090	14
	524		524		female	no	0	3.750	8
##	525		525		female	yes	0	4.540	10
##	526		526	2	female	no	0	1.630	6
##	527		527	2	female	yes	0	3.090	2
##	528		528	2	female	no	0	3.690	4
##	529		529	2	female	no	0	2.120	2
##	530		530	2	female	no	0	2.260	3
##	531		531	2	male	yes	1	4.290	2
##	532		532	2	female	yes	1	1.740	4
##	533		533	2	male	yes	2	2.960	8
##	534		534	2	female	no	0	2.580	5
##	535		535	2	male	yes	1	4.540	10
##	536		536	2	female	no	0	4.620	12
##	537		537	2	male	yes	1	4.290	13
##	538		538		female	no	0	4.540	13
##	539		539		female	yes	0	3.590	0
##	540		540		female	no	0	4.290	5
##	541		541	2	male	no	0	3.690	26
##	542		542	2	female	no	0	3.210	0
##	543		543	2	female	yes	1	3.470	11
##	544		544	2	male	no	0	4.540	37
##	545		545	2	male	yes	0	1.950	4
##	546		546	2	male	yes	2	2.960	46
##	547		547	2	male	yes	1	4.540	53
##	548		548	2	male	yes	0	3.400	9
##	549		549	2	male	yes	0	2.100	4
##	550		550	2	male	yes	2	4.290	8
##	551		551	2	female	no	0	3.750	5
	552		552	2		no	0	2.050	2
	553		553	2	male	yes	1	2.500	2
	554		554		female	yes	1	4.620	17
	555		555		female	yes	0	1.800	10
	556		556		female	no	0	3.090	0
	557		557	2	male	no	0	4.290	10
	558		558	2	male	yes	2	1.800	6
	559		559	2	female	yes	0	3.590	5
	560		560 561	2	male	yes	0	2.760	3
##	561		561	2	male	yes	0	4.140	16
##	562		562	2	male	no	0	3.590	3
##	563		563		female	no	0	4.540	12
##	564		564	2		yes	0	0.920	0
##	565		565 566	2	female	no	0	4.290	15
##	566		566 567	2	male	yes	1	2.390	4
	567		567	2	male	yes	0	1.180	0
	568		568 560	2	male	yes	2	4.540	2
##	569	569	569	2	female	yes	2	3.850	47

	570		570	2	male	yes	2	2.960	21
	571		571	2	female	yes	0	3.360	8
##	572		572	2	female	yes	0	3.190	5
##	573		573	2	female	yes	1	3.690	15
##	574		574	2	male	yes	0	1.630	8
##	575		575	2	male	yes	0	1.720	1
##	576		576	2	female	yes	0	2.580	5
##	577		577	2	male	yes	0	1.520	5
##	578		578	2	male	no	0	2.860	4
##	579		579	2	female	yes	2	1.220	4
##	580		580	2	female	no	0	2.540	4
##	581		581	2	female	no	0	3.360	4
##	582		582	2	male	yes	2	2.870	20
##	583		583	2	male	yes	1	3.150	7
##	584		584	2	female	no	0	4.620	14
##	585		585	2	male	yes	1	1.760	7
##	586		586	2	male	yes	1	1.520	3
##	587		587	2	male	no	0	4.290	5
	588		588	2	male	yes	2	4.290	10
	589		589	2	male	yes	1	2.560	5
	590		590	2	male	no	0	4.540	29
	591		591	2	female	yes	0	1.860	5
	592		592	2	female	no	0	4.290	1
	593		593	2	female	yes	0	3.920	7
##	594	594	594	2	male	no	0	2.260	2
##	595		595	2	male	yes	1	4.290	14
##	596	596	596	2	female	yes	1	3.690	10
##	597	597	597	2	male	yes	2	1.970	0
##	598	598	598	2	male	yes	1	3.190	10
##	599		599	2	female	no	0	4.540	5
##	600		600	2	male	no	0	4.290	25
##	601		601	2	male	yes	0	2.830	1
##	602		602	2	male	yes	3	4.340	7
##	603		603	2	female	no	0	3.360	3
##	604		604	2	female	no	0	3.410	14
##	605	605	605	2	female	no	0	2.860	3
##	606	606	606	2	male	yes	0	4.290	24
##	607	607	607	2	male	yes	1	2.760	8
##	608	608	608	2	female	yes	0	3.750	0
##	609	609	609	2	male	yes	1	4.290	12
	610		610	2	male	yes	2	2.210	12
##	611	611	611	2	male	yes	0	3.540	21
	612		612	2	male	yes	0	2.960	2
##	613	613	613	2	female	yes	0	2.120	2
##	614	614	614	2	male	no	0	2.390	4
##	615	615	615	2	female	no	0	3.190	5
##	616	616	616	2	female	no	0	1.970	8
##	617	617	617	2	female	yes	0	4.540	9
##	618	618	618	2	${\tt female}$	no	0	2.550	36
##	619	619	619	2	male	yes	0	1.760	0
	620		620	2	male	yes	2	4.340	17
##	621	621	621	2	${\tt female}$	yes	0	2.520	16
##	622	622	622	2	male	yes	1	2.560	7
##	623	623	623	2	male	no	0	4.540	10

##	624	624	624	2	female	yes	0	1.400	0
	625		625	2	male	yes	2	3.320	27
##	626	626	626	2	male	yes	0	2.510	5
##	627		627	2	female	yes	2	2.580	3
##	628		628	2	male	yes	2	3.540	16
##	629		629	2	male	yes	0	4.540	11
##	630		630	2	male	no	0	4.290	17
##	631		631	2	male	yes	0	4.340	5
##	632		632	2	female	yes	1	3.470	4
##	633		633	2	female	no	0	3.470	5
##	634		634	2	male	yes	2	2.500	5
##	635	635	635	2	male	yes	3	2.000	8
##	636		636	2	male	no	0	3.920	10
##	637		637	2	female	yes	0	4.620	23
##	638		638	2	female	no	0	3.090	6
##	639		639	2	female	no	0	2.320	4
##	640		640	2	female	no	0	4.290	21
##	641	641	641	2	female	no	0	3.360	7
##	642	642	642	2	male	yes	0	3.690	5
##	643	643	643	2	male	yes	0	4.290	17
##	644	644	644	2	female	no	0	3.590	11
##	645	645	645	2	male	yes	0	4.290	13
##	646	646	646	2	female	yes	1	3.210	7
##	647	647	647	2	female	no	0	2.260	8
##	648	648	648	2	male	yes	0	2.500	0
##	649	649	649	2	male	no	0	2.260	3
##	650	650	650	2	${\tt female}$	yes	0	3.750	4
##	651	651	651	2	${\tt female}$	no	0	4.290	4
##	652	652	652	2	male	yes	0	3.190	11
##	653	653	653	2	${\tt female}$	yes	1	2.000	7
##	654	654	654	2	${\tt female}$	yes	0	3.090	1
##	655	655	655	2	${\tt female}$	yes	1	3.590	2
##	656	656	656	2	${\tt female}$	yes	0	4.340	11
##	657	657	657	2	female	no	0	2.870	9
##	658		658	2	male	yes	0	2.100	2
##	659		659	2	female	no	0	2.830	26
##	660	660	660	2	male	yes	1	2.100	3
##	661		661	2	male	yes	1	1.780	1
##	662		662	2	male	yes	0	2.510	0
##	663		663	2	male	yes	1	2.520	10
##	664		664	2	female	yes	1	3.400	4
##	665		665	2	female	yes	1	3.090	3
##	666		666	2	male	yes	0	4.290	13
##	667		667	2	female	yes	0	2.960	8
##	668		668	2	female	yes	2	3.590	11
##	669		669	2	male	no	0	4.540	55
##	670		670	2	female	yes	0	3.590	11
##	671		671	2	male	yes	1	3.420	3
##	672		672	2	female	yes	1	4.290	4
##	673		673	2	female	no	0	3.190	4
##	674		674	2	female	yes	1	4.290	11
##	675		675	2	male	yes	0	4.620	3
##	676		676	2	male	yes	2	1.860	6
##	677	6/7	677	2	male	yes	0	4.620	8

	678		678		female	yes	2	4.540	48
	679		679	2	female	yes	0	3.750	8
	680		680	2	male	yes	0	1.760	0
	681		681	2	female	yes	0	3.410	31
	682		682	2	male	yes	0	2.550	24
	683		683	2	male	yes	1	1.250	2
	684		684		female	yes	0	1.480	9
	685		685		female	yes	0	2.830	3
##	686		686	2	female	yes	0	4.290	6
##	687		687	2	female	no	0	3.190	10
##	688		688	2	female	no	0	1.400	0
##	689		689	2	female	yes	2	3.210	2
##	690		690	2	male	no	0	4.620	9
##	691		691	2	female	yes	0	1.450	7
##	692		692	2	female	yes	1	3.340	4
##	693		693	2	female	no	0	4.540	23
##	694		694	2	male	yes	2	4.290	30
##	695		695	2	female	no	0	3.690	7
##	696		696	2	female	no	0	2.580	2
##	697		697	2	female	yes	1	4.540	7
##	698		698	2	male	yes	1	4.540	6
##	699		699	2	male	no	0	4.290	9
##	700		700	3	female	no	0	4.290	12
##	701		701	3	female	no	0	3.750	0
##	702		702	3	male	no	0	4.620	8
##	703		703	3	male	yes	2	4.540	31
##	704		704	3	male	yes	0	3.090	5
##	705		705	3	male	yes	1	1.950	14
##	706		706	3	female	yes	1	3.590	3
##	707		707	3	male	yes	1	2.610	5
##	708		708	3	male	no	0	2.870	12
##	709		709	3	male	no	0	4.290	30
##	710		710	3	female	yes	0	3.410	19
##	711		711	3	female	yes	1	2.320	5
##	712 713		712 713	3	female	yes	0	2.120	3 37
##	714		713 714	3	male	yes	0	4.540 2.960	8
##	714	. – –	714	3	male male	yes		2.960	12
##				3		no	0		
	716 717		716 717	3	male male	yes	0 2	2.320 1.800	4 6
	718		717	3	female	yes	0	2.390	11
	719		719	3	female	no	1	4.620	14
##	720		720	3	female	yes	0	4.020	10
##	721		721	3	male	no yes	0	4.540	5
##	722		722	3	male	no	0	3.590	16
##	723		723	3	male	yes	2	4.290	0
##	724		724	3	male	yes	1	2.960	5
##	725		725	3	male	yes	2	4.290	25
##	726		726	3	male	yes	1	4.290	18
##	727		727	3	male	yes	1	2.540	6
##	728		728	3	male	no	0	3.920	0
##	729		729	3	male	no	0	2.320	8
##	730		730	3	female	no	0	4.620	22
	731		731		female	yes	0	3.750	6
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	732		732	3	male	yes	2	1.950	3
##	733		733	3	male	yes	1	1.800	4
##	734		734	3	male	yes	0	2.760	8
##		735	735	3	male	no	0	3.590	7
##	736		736	3	male	yes	0	4.250	20
##	737		737	3	male	yes	2	2.830	7
##		738	738	3	female	no	0	2.520	4
##		739	739	3	female	yes	0	1.180	0
##		740	740	3	female	yes	0	3.360	11
##		741	741	3	female	yes	0	4.290	21
##	742		742	3	female	yes	1	4.620	49
##	743		743	3	male	no	0	2.830	8
##	744		744	3	male	yes	0	3.690	24
##		745	745	3	male	yes	0	2.260	12
##		746	746	3	female	no	0	2.050	5
##		747	747	3	male	yes	1	4.290	19
##		748	748	3	male	yes	0	1.420	3
##		749	749	3	female	yes	2	1.890	16
##		750	750	3	male	yes	0	3.690	26
##	751		751	3	female	yes	0	2.960	22
##	752		752	3	female	yes	1	1.860	1
##	753		753	3	female	yes	0	2.260	6
##	754		754	3	male	yes	0	4.290	15
##		755	755	3	female	yes	0	3.150	4
##		756	756	3	male	yes	0	2.610	0
##	757		757	3	female	no	0	4.540	3
##		758	758	3	male	yes	1	2.210	10
##		759	759	3	male	yes	0	1.780	0
##		760	760	3	male	yes	1	3.620	5
##		761	761	3	male	yes	0	3.920	0
##		762	762	3	female	yes	0	4.620	10
##		763	763	3	male	yes	0	2.610	5
##		764	764	3	female	yes	1	3.360	3
##		765	765	3	female	yes	0	3.690	12
##		766	766	3	male	yes	0	3.470	14
##	767		767	3	male	yes	0	1.250	4
	768		768	3	male	yes	0	4.620	18
	769		769	3	male	yes	1	3.590	14
	770		770	3	female	no	0	3.360	2
	771		771	3	male	yes	0	4.290	38
	772		772	3	male	no	0	3.540	12
	773		773	3	male	yes	2	2.580	2
	774		774	3	male	no	0	1.520	3
	775		775	3	male	yes	0	3.470	8
	776		776	3	female	yes	0	4.620	14
	777		777	3	male	no	0	3.540	25
	778		778	3	male	yes	2	2.100	4
	779		779	3	male	yes	2	1.380	8
	780		780	3	male	yes	1	3.090	5
	781		781	3	male	yes	3	2.860	3
	782		782	3	female	no	0	4.290	5
	783		783	3	female	yes	1	1.220	3
	784		784	4	male	yes	0	2.830	5
##	785	785	785	4	female	yes	0	4.540	16

	786		786	4	male	yes	0	4.290	22
##	787		787	4	male	no	0	4.290	7
##	788		788	4	male	yes	0	3.540	9
##	789		789	4	male	no	0	2.520	6
##	790		790	4	female	no	0	1.400	3
##	791		791	4	female	yes	0	4.340	6
##	792		792	4	female	yes	1	2.510	2
##	793		793	4	male	yes	0	4.290	2
##	794		794	4	male	yes	1	2.960	0
##	795		795	4	male	no	0	3.850	47
##	796		796	4	male	no	0	4.540	5
##	797		797	4	female	yes	0	3.400	5
##	798		798	4	male	no	0	3.410	21
##	799		799	4	male	yes	1	2.960	57
##	800		800	4	female	yes	0	3.540	5
##	801		801	4	male	yes	2	1.720	2
##	802		802	4	male	yes	2	2.860	15
##	803		803	4	male	yes	2	4.540	66
	804		804	4	male	yes	1	1.760	11
	805		805	4	male	yes	2	1.860	15
	806		806	4	male	yes	0	3.470	4
	807		807	4	male	no	0	3.410	7
	808		808	4	male	yes	0	1.810	10
	809		809	4	male	yes	2	2.050	13
	810		810	4	male	no	0	4.620	18
	811		811	4	female	yes	0	2.260	3
	812		812	4	male	yes	1	1.860	47
	813		813		female	yes	1	4.290	4
	814 815		814	4	male	yes	2	3.540	30
	816		815 816	4	male male	yes	0	4.290 2.540	11
	817		817	4	female	yes yes	0	4.250	13
##	818		818		female	no	0	2.500	10
##	819		819		female	yes	1	3.540	12
##	820		820		female	yes	0	3.190	8
##	821		821	4	male	yes	2	4.540	21
	822		822		female	no	0	2.860	39
	823		823		female	yes	0	2.580	14
	824		824		female	yes	0	1.280	4
	825		825		female	yes	0	3.210	14
	826		826		female	no	0	2.870	6
	827		827		female	no	0	3.340	11
	828		828	4	female	no	0	3.150	8
	829		829	4	female	no	0	2.320	8
##	830	830	830	4	male	no	0	4.290	19
##	831	831	831	4	male	no	0	3.690	7
##	832	832	832	4	male	yes	1	2.550	21
##	833	833	833	4	female	no	0	4.620	3
##	834		834	4	female	yes	0	2.360	5
##	835		835	4	male	yes	1	4.250	29
##	836	836	836	4	male	yes	1	4.290	5
##	837	837	837	4	${\tt female}$	yes	0	3.190	7
##	838	838	838	4	${\tt female}$	no	0	3.190	3
##	839	839	839	4	${\tt female}$	no	0	2.560	23

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	840		840	4	male	yes	0	1.760	7
	841		841	4	male	yes	1	2.580	25
	842		842		female	yes	0	3.410	4
	843		843		female	no	0	3.590	9
	844		844		female	yes	0	1.780	4
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	847		847	4	male	yes	0	3.620	5
	848		848	4	male	yes	0	1.505	4
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##	850		850	4	male	no	0	2.870	15
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##	852		852	5	female	no	0	3.750	13
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##	857		857	5	male	yes	0	4.250	12
	858		858	5	male	no	0	3.360	11
	859		859	5	female	no	0	3.590	14
	860		860	5	male	yes	1	2.580	25
	861		861	5	male	yes	1	3.590	21
	862		862	5	male	yes	1	2.960	4
	863		863	5	male	yes	0	4.540	13
	864		864	5	male	yes	0	4.290	30
	865		865	5	female	no	0	2.870	12
	866		866	5	female	yes	0	4.540	15
	867		867	5	female	yes	1	3.850	1
	868		868	5	male	yes	0	2.500	4
	869		869	5	male	yes	1	3.470	0
##	870		870	5	female	yes	0	2.860	24
##	871		871	5	female	yes	0	4.620	0
##	872		872	5	male	yes	1	4.540	53
##	873		873	5	male	yes	0	1.250	2
##	874		874	5	female	yes	0	3.210	19
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	876		876		female	no	0	2.580	6
	877		877		female	no	0	3.620	3
	878		878	6	male	yes	1	4.620	8
	879		879	6	female	yes	0	2.100	36
	880		880	6	female	yes	2	1.860	38
	881		881	6	male	yes	0	4.340	9
	882		882	6	female	yes	0	4.290	24
	883		883	6	male	yes	2	2.510	11
##	884		884	6	male	yes	1	2.960	13
##	885		885	6	male	no	0	4.290	18
##	886		886	6	male	no	0	3.400	14
##	887		887	6	female	no	0	4.540	12
##	888		888	6	male	yes	1	3.850	16
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##	890		890	6	female	no	0	4.540	15
##	891		891	6	male	no	0	3.470	6
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##	893	893	893	6	male	no	0	1.970	4

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## 894 894
                  894
                              6 female
                                                     0
                                                          3.320
                                                                       6
                                              no
## 895 895
                  895
                              7
                                                          3.590
                                                                       1
                                  male
                                                     0
                                             yes
                              7
                                                          2.540
## 896 896
                  896
                                  male
                                             no
                                                     0
                                                                       6
## 897 897
                              7
                  897
                                                          3.410
                                                                     20
                                  male
                                              no
                                                     0
                              7
## 898 898
                  898
                                   male
                                             yes
                                                     1
                                                          1.970
                                                                       0
## 899 899
                              7 female
                                                                      9
                  899
                                                     0
                                                          3.150
                                              no
## 900 900
                              7
                                                          4.620
                                                                     15
                  900
                                  male
                                              no
                                                     0
                              7
## 901 901
                  901
                                  male
                                              no
                                                     0
                                                          4.540
                                                                      42
## 902 902
                  902
                              7
                                  male
                                             yes
                                                     0
                                                          3.690
                                                                      9
## 903 903
                              7
                                                                     19
                  903
                                  male
                                              no
                                                     0
                                                          4.340
## 904 904
                  904
                              7
                                  male
                                                     0
                                                          4.290
                                                                     19
                                              no
## 905 905
                              7
                                                                      27
                  905
                                                          3.590
                                   male
                                             yes
                                                     1
## 906 906
                              7
                  906
                                                     0
                                                          3.690
                                                                     19
                                   male
                                             no
## 907 907
                              8
                  907
                                   male
                                             yes
                                                     0
                                                          2.510
                                                                      11
## 908 908
                  908
                              9
                                                          2.960
                                                                      23
                                  male
                                             yes
                                                     1
## 909 909
                  909
                              9
                                   male
                                                     1
                                                          1.860
                                                                      47
                                             yes
## 910 910
                                                                      18
                  910
                             10 female
                                                     0
                                                          3.590
                                             yes
## 911 911
                  911
                             11
                                   male
                                                     2
                                                          2.860
                                                                      7
                                             yes
## 912 912
                             12
                                                          4.290
                                                                     35
                  912
                                  male
                                             yes
                                                     1
## 913 913
                  913
                             12
                                   male
                                             yes
                                                     1
                                                          1.860
                                                                      5
## 914 914
                  914
                             16
                                  male
                                             yes
                                                    0
                                                          1.740
                                                                     21
## 915 915
                  915
                             19
                                                          1.860
                                                                      42
                                   male
                                             yes
##
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## 2
                0.34166666
## 3
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## 4
                 0.39333332
## 5
                 0.14423077
## 6
                 1.79499996
## 7
                 1.06333335
## 8
                 0.7400001
## 9
                 0.76999998
## 10
                         Inf
## 11
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## 12
                 0.05807692
## 13
                 1.23000002
## 14
                 0.85000002
## 15
                         Inf
## 16
                 3.08999991
## 17
                0.28571429
## 18
                 0.33000000
## 19
                 0.47999999
## 20
                 0.47666666
## 21
                 0.37666667
## 22
                 0.9866668
## 23
                0.85799999
## 24
                 0.71499997
## 25
                 2.75999999
## 26
                 0.5066666
## 27
                 0.44250000
## 28
                 1.42999999
## 29
                        Inf
## 30
                 0.77333331
## 31
                        Inf
```

## 32	0.53625000
## 33	0.11576923
## 34	Inf
## 35	Inf
## 36	Inf
## 37	Inf
## 38	0.47666666
## 39	0.61000001
## 40	0.75000000
## 41	0.47666666
## 42	0.95333330
## 43	0.78400002
## 44	1.11999997
## 45	0.34999998
## 46	Inf
## 47	2.50000000
## 48	0.13440000
## 49	0.32428571
## 50	0.49000001
## 51	0.90799999
## 52 ## 53	Inf
## 53 ## 54	0.2466667 0.53625000
## 54 ## 55	1.1300000
## 56	0.19272726
## 57	1.60500002
## 58	3.15000010
## 59	3.92000008
## 60	Inf
## 61	0.47666665
## 62	Inf
## 63	0.93750000
## 64	1.76999998
## 65	2.53999996
## 66	0.92000000
## 67	0.45400000
## 68	0.27999999
## 69	Inf
## 70	Inf
## 71	1.05999994
## 72	Inf
## 73	1.78999996
## 74	2.14499998
## 75	0.31999999
## 76	0.51599998
## 77	Inf
## 78	2.21000004
## 79	0.45200000
## 80	0.64200001
## 81	1.04999995
## 82	3.53999996
## 83	0.18888889
## 84	0.36833334
## 85	0.11631579

## 86	0.92000002
## 87	0.12257143
## 88	0.52500002
## 89	0.22578947
## 90	0.31375000
## 91	4.28999996
## 92	Inf
## 93	0.47333332
## 94	0.11631579
## 95	0.82799997
## 96	0.21714285
## 97	0.57749999
## 98	0.51714284
## 99	0.93750000
## 100	0.53625000
## 101	0.75000000
## 101	
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## 103	0.20000000
## 104	0.79750001
## 105	1.80999994
## 106	1.57500005
## 107	0.53571429
## 108	0.34166666
## 109	0.73666668
## 110	1.67999995
## 111	0.31545455
## 112	Inf
## 113	1.67999995
## 114	0.50799999
## 115	0.53750002
## 116	1.51333332
## 117	0.41999999
## 118	Inf
## 119	0.19272726
## 120	1.73500001
## 121	3.47000003
## 122	0.37333332
## 123	0.21199999
## 124	2.09999990
## 125	4.28999996
## 126	0.21999999
## 127	0.47666666
## 128	1.60500002
## 129	Inf
## 130	0.36199999
## 131	1.25999999
## 132	0.14608695
## 133	1.13499999
## 134	1.07249999
## 135	0.23555554
## 136	0.15400000
## 137	0.25642857
## 138	0.89749998
## 139	2.85999990

##	140	0.50166667
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##	142	Inf
##	143	Inf
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##	147	Inf
##	148	1.00000000
##	149	1.67999995
##	150	0.51285713
##	151	1.07000005
##	152	0.29916666
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##	155	1.48000002
##	156	0.44200001
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##	166	0.70799999
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##	172	4.28999996
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##	179	0.75666666
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##	181	Inf
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##	183	0.56750000
##	184	0.17499999
##	185	0.45200000
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##	187	0.69000000
##	188	0.35750000
##	189	Inf
##	190	0.91500002
##	191	Inf
##	192	0.71499999
##	193	Inf

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## 196	0.19133333
## 197	Inf
## 198	Inf
## 199	0.23062500
## 200	Inf
## 201	0.34499999
## 202	0.47800002
## 203	1.96000004
## 204	0.74000001
## 205	1.05999994
## 206	2.11999989
## 200	0.86999997
## 207	
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## 209	0.40857141
## 210	Inf
## 211	3.33999991
## 212	0.45249999
## 213	0.44874999
## 214	4.53999996
## 215	3.58999991
## 216	0.47666666
## 217	0.38000000
## 218	0.71499999
## 219	0.92399998
## 220	0.33000000
## 221	0.83666666
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## 225	1.73500001
## 226	0.28600000
## 227	Inf
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## 230	0.57999998
## 231	0.2222222
## 232	0.06222222
## 233	Inf
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## 235	0.21199999
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## 239	Inf
## 240	0.85799999
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## 245	2.14499998
## 246	Inf
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## 263	Inf
## 264	Inf
## 265	2.14499998
## 266	2.14499998
## 267	Inf
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## 271	Inf
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## 275	0.46125001
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## 277	0.44000000
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## 328	0.02311688
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## 364	0.21500001
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##	479	0.4666666
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	484	0.28571429
	485	0.22000000
	486	Inf
	487	0.25235294
	488	0.16000000
	489	0.25285714
##	490	3.69000006
##	491	0.57399998
##	492	Inf
##	493	1.08500004
##	494	0.32181818
##	495	0.42900000
##	496	Inf
##	497	0.48571430
##	498	0.36199999
##	499	0.17722223
##	500	0.46399999
##	501	0.23894737
	502	2.14499998
##		
##	503	1.42999995
##	504	1.42999995
##	505	Inf
##	506	Inf
##	507	0.14000000
##	508	0.09882353
##	509	0.19133333
##	510	3.47000003
##	511	0.39428571
##	512	0.16857143
##	513	0.17727273
##	514	0.18894736
##	515	1.06333335
##	516	1.38000000
	517	0.33000000
##	911	0.33000000

## 518	0.63800001
## 519	Inf
## 520	0.39428571
## 521	0.16454545
## 522	0.83999997
## 523	0.22071428
## 524	0.46875000
## 525	0.45400000
## 526	0.27166667
## 527	1.54499996
## 528	0.92250001
## 529	1.05999994
## 530	0.75333333
## 531	2.14499998
## 532	0.43500000
## 533	0.37000000
## 534	0.51599998
## 535	0.45400000
## 536	0.38499999
## 537	0.33000000
## 538	0.34923077
## 539	Inf
## 540	0.85799999
## 541	0.14192308
## 542	Inf
## 543	0.31545455
## 544	0.12270270
## 545	0.48750001
## 546	0.06434783
## 547	0.08566038
## 548	0.37777779
## 549	0.52499998
## 550	0.53625000
## 551	0.75000000
## 552	1.02499998
## 553	1.25000000
## 554	0.27176470
## 555	0.18000000
## 556	Inf
## 557	0.42900000
## 558	0.29999999
## 559	0.71799998
## 560	0.92000000
## 561	0.25874999
## 562	1.19666664
## 563	0.37833333
## 564	Inf
## 565	0.28600000
## 566	0.59750003
## 567	Inf
## 568	2.26999998
## 569	0.08191489
## 570	0.14095238
## 571	0.41999999

## 572	0.63800001
## 573	0.24600000
## 574	0.20375000
## 575	1.72000003
## 576	0.51599998
## 577	0.30400000
## 578	0.71499997
## 579	0.30500001
## 580	0.63499999
## 581	0.83999997
## 582	0.14349999
## 583	0.45000001
## 584	0.32999999
## 585	0.25142857
## 586	0.50666666
## 587	0.85799999
## 588	0.42900000
555	0.42900000
## 589	0.51199999
## 590	
## 591	0.37200000
## 592	4.28999996
## 593	0.56000001
## 594	1.13000000
## 595	0.30642857
## 596	0.36900001
## 597	Inf
## 598	0.31900001
## 599	0.90799999
## 600	0.17160000
## 601	2.82999992
## 602	0.62000002
## 603	1.11999997
## 604	0.24357143
## 605	0.95333330
## 606	0.17875000
## 607	0.34500000
## 608	Inf
## 609	0.35750000
## 610	0.18416667
## 611	0.16857143
## 612	1.48000002
## 613	1.05999994
## 614	0.59750003
## 615	0.63800001
## 616	0.24625000
## 617	0.5044444
## 618	0.07083333
## 619	Inf
## 620	0.25529413
## 621	0.15750000
## 622	0.36571428
## 623	0.45400000
## 624	Inf
## 625	0.12296296

## 626	0.50200000
## 627	0.85999997
## 628	0.22125000
## 629	0.41272727
## 630	0.25235294
## 631	0.86800003
## 632	0.86750001
## 633	0.69400001
## 634	0.50000000
## 635	0.25000000
## 636	0.39200001
## 637	0.20086956
## 638	0.51499999
## 639	0.57999998
## 640	0.20428571
## 641	0.47999999
## 642	0.73800001
## 643	0.25235294
## 644	0.32636363
## 645	0.33000000
## 646	0.45857143
## 647	0.28250000
## 648	Inf
## 649	0.75333333
## 650	0.93750000
## 651	1.07249999
## 652	0.29000001
## 653	0.28571429
## 654	3.08999991
## 655	1.79499996
## 656	0.39454547
## 657	0.31888888
## 658	1.04999995
## 659	0.10884615
## 660	0.69999997
## 661	1.77999997
## 662	Inf
## 663	0.25200000
## 664	0.85000002
	1.02999997
## 666	0.33000000
## 667	0.37000000
## 668	0.32636363
## 669	0.08254545
## 670	0.32636363
## 671	1.14000003
## 672	1.07249999
## 673	0.79750001
## 674	0.39000000
## 675	1.53999996
## 676	0.31000000
## 677	0.57749999
## 678	0.09458333
## 679	0.46875000

## 680	Inf
## 681	0.11000000
## 682	0.10625000
## 683	0.62500000
## 684	0.16444445
## 685	0.94333331
## 686	0.71499999
## 687	0.31900001
## 688	0.51500001 Inf
## 689	1.60500002
## 690	0.51333332
## 691	0.20714286
## 692	0.83499998
## 693	0.19739130
## 694	0.14300000
## 695	0.52714287
## 696	1.28999996
## 697	0.64857142
## 698	0.75666666
## 699	0.47666666
## 700	0.35750000
## 701	Inf
## 702	0.57749999
## 703	0.14645161
## 704	0.61799998
## 705	0.13928572
## 706	1.19666664
## 707	0.52199998
## 708	0.23916666
## 709	0.14300000
## 710	0.17947369
## 711	0.46399999
## 712	0.70666663
## 713	0.12270270
## 714	0.37000000
## 714	0.23916666
## 716	0.57999998
## 717	0.29999999
## 718	0.21727274
## 719	0.32999999
## 720	0.42900000
## 721	0.90799999
## 722	0.22437499
## 723	Inf
## 724	0.59200001
## 725	0.17160000
## 726	0.23833333
## 727	0.42333333
## 721 ## 728	
	Inf
## 729	0.28999999
## 730	0.20999999
## 731	0.62500000
## 732	0.65000002
## 733	0.44999999

## 734	0.34500000
## 735	0.51285713
## 736	0.21250000
## 737	0.40428570
## 738	0.63000000
## 739	Inf
## 740	0.30545454
## 741	0.20428571
## 742	0.09428571
## 743	0.35374999
## 744	0.15375000
## 745	0.18833333
## 746	0.40999999
## 747	0.22578947
## 748	0.47333332
## 749	0.11812500
## 750	0.14192308
## 751	0.13454546
## 752	1.86000001
## 753	0.37666667
## 754	0.28600000
## 755	0.78750002
## 756	0.76750002 Inf
## 757	1.513333332
## 758	0.22100000
## 759	0.22100000 Inf
## 760	0.72399998
## 761	0.72399998 Inf
## 761	0.46199999
## 762 ## 763	0.52199998
## 764	1.11999997
## 76 4 ## 765	0.30750000
	0.24785714
## 767	0.31250000
## 768	0.25666666
## 769	0.25642857
## 770	1.67999995
## 771	0.11289474
## 772	0.29500000
## 773	1.28999996
## 774	0.50666666
## 775	0.43375000
## 776	0.32999999
## 777	0.14160000
## 778	0.52499998
## 779	0.17250000
## 780	0.61799998
## 781	0.95333330
## 782	0.85799999
## 783	0.4066668
## 784	0.56599998
## 785	0.28375000
## 786	0.19500000
## 787	0.61285714

## 788	0.39333333
## 789	0.42000000
## 790	0.4666666
## 791	0.72333336
## 792	1.25500000
## 793	2.14499998
## 794	Inf
## 795	0.08191489
## 796	0.90799999
## 797	0.68000002
## 798	0.16238096
## 799	0.05192983
## 800	0.70799999
## 801	0.86000001
## 802	0.19066666
## 803	0.06878788
## 804	0.16000000
## 805	0.12400000
## 806	0.86750001
## 807	0.48714287
	0.18099999
## 809	0.15769230
## 810	0.25666666
## 811	0.75333333
## 812	0.03957447
## 813	1.07249999
## 814	1.76999998
## 815	0.14300000
## 816	0.23090909
## 817	0.32692308
## 818	0.25000000
## 819	0.29500000
## 820	0.39875001
## 821	0.21619047
## 822	0.07333333
## 823	0.18428571
## 824	0.31999999
## 825	0.22928572
## 826	0.47833331
## 827	0.30363636
## 828	0.39375001
## 829	0.28999999
## 830	0.22578947
## 831	0.52714287
## 832	0.12142857
## 833	1.53999996
## 834	0.47199998
## 835	0.14655172
## 836	0.85799999
## 837	0.45571429
## 838	1.06333335
## 839	0.11130435
## 840	0.25142857
## 841	0.10320000

## 842	0.85250002
## 843	0.39888888
## 844	0.44499999
## 845	1.25000000
## 846	0.23062500
## 847	0.72399998
## 848	0.37625000
[] [0.42999999
1_1	
## 850	0.19133333
## 851	0.14125000
## 852	0.28846154
## 853	0.25666666
## 854	0.63000002
## 855	0.11666667
## 856	0.72333336
## 857	0.35416667
## 858	0.30545454
## 859	0.25642857
## 860	0.10320000
## 861	0.17095238
## 862	0.74000001
## 863	0.34923077
## 864	0.14300000
## 865	0.23916666
## 866	0.30266666
## 867	3.84999990
## 868	0.62500000
	T£
## 869	Inf
## 869 ## 870	0.11916666
## 870	0.11916666
## 870 ## 871	0.11916666 Inf
## 870 ## 871 ## 872	0.11916666 Inf 0.08566038
## 870 ## 871 ## 872 ## 873 ## 874	0.11916666 Inf 0.08566038 0.62500000 0.16894737
## 870 ## 871 ## 872 ## 873 ## 874	0.11916666 Inf 0.08566038 0.62500000 0.16894737 0.16000000
## 870 ## 871 ## 872 ## 873 ## 874 ## 875	0.11916666 Inf 0.08566038 0.62500000 0.16894737 0.16000000 0.42999999
## 870 ## 871 ## 872 ## 873 ## 874 ## 875 ## 876 ## 877	0.11916666 Inf 0.08566038 0.62500000 0.16894737 0.16000000 0.42999999 1.20666663
## 870 ## 871 ## 872 ## 873 ## 874 ## 875 ## 876 ## 877 ## 878	0.11916666 Inf 0.08566038 0.62500000 0.16894737 0.16000000 0.42999999 1.20666663 0.57749999
## 870 ## 871 ## 872 ## 873 ## 874 ## 875 ## 876 ## 877 ## 878	0.11916666 Inf 0.08566038 0.62500000 0.16894737 0.16000000 0.42999999 1.20666663 0.57749999 0.05833333
## 870 ## 871 ## 872 ## 873 ## 874 ## 875 ## 876 ## 877 ## 878 ## 879	0.11916666 Inf 0.08566038 0.62500000 0.16894737 0.16000000 0.42999999 1.2066663 0.57749999 0.05833333 0.04894737
## 870 ## 871 ## 872 ## 873 ## 874 ## 875 ## 876 ## 877 ## 878 ## 880 ## 880	0.11916666 Inf 0.08566038 0.62500000 0.16894737 0.16000000 0.42999999 1.20666663 0.57749999 0.05833333 0.04894737 0.48222224
## 870 ## 871 ## 872 ## 873 ## 874 ## 875 ## 876 ## 877 ## 878 ## 889 ## 881 ## 882	0.11916666 Inf 0.08566038 0.62500000 0.16894737 0.16000000 0.42999999 1.20666663 0.57749999 0.05833333 0.04894737 0.48222224 0.17875000
## 870 ## 871 ## 872 ## 873 ## 874 ## 875 ## 876 ## 877 ## 878 ## 889 ## 881 ## 882 ## 883	0.11916666 Inf 0.08566038 0.62500000 0.16894737 0.16000000 0.42999999 1.20666663 0.57749999 0.05833333 0.04894737 0.48222224 0.17875000 0.22818182
## 870 ## 871 ## 872 ## 873 ## 874 ## 875 ## 876 ## 877 ## 878 ## 889 ## 881 ## 882	0.11916666 Inf 0.08566038 0.62500000 0.16894737 0.16000000 0.42999999 1.20666663 0.57749999 0.05833333 0.04894737 0.48222224 0.17875000
## 870 ## 871 ## 872 ## 873 ## 874 ## 875 ## 876 ## 877 ## 878 ## 889 ## 881 ## 882 ## 883	0.11916666 Inf 0.08566038 0.62500000 0.16894737 0.16000000 0.42999999 1.20666663 0.57749999 0.05833333 0.04894737 0.48222224 0.17875000 0.22818182 0.22769231 0.23833333
## 870 ## 871 ## 872 ## 873 ## 874 ## 875 ## 876 ## 877 ## 878 ## 880 ## 881 ## 882 ## 883 ## 884	0.11916666 Inf 0.08566038 0.62500000 0.16894737 0.16000000 0.42999999 1.20666663 0.57749999 0.05833333 0.04894737 0.48222224 0.17875000 0.22818182 0.22769231
## 870 ## 871 ## 872 ## 873 ## 874 ## 875 ## 876 ## 877 ## 8878 ## 889 ## 880 ## 881 ## 882 ## 883 ## 884 ## 885	0.11916666 Inf 0.08566038 0.62500000 0.16894737 0.16000000 0.42999999 1.20666663 0.57749999 0.05833333 0.04894737 0.48222224 0.17875000 0.22818182 0.22769231 0.23833333
## 870 ## 871 ## 872 ## 873 ## 874 ## 875 ## 876 ## 877 ## 8878 ## 889 ## 880 ## 881 ## 882 ## 883 ## 884 ## 885 ## 886	0.11916666 Inf 0.08566038 0.62500000 0.16894737 0.16000000 0.42999999 1.20666663 0.57749999 0.05833333 0.04894737 0.48222224 0.17875000 0.22818182 0.22769231 0.23833333 0.24285715
## 870 ## 871 ## 872 ## 873 ## 874 ## 875 ## 876 ## 877 ## 878 ## 880 ## 881 ## 882 ## 883 ## 884 ## 885 ## 886 ## 886	0.11916666 Inf 0.08566038 0.62500000 0.16894737 0.16000000 0.42999999 1.20666663 0.57749999 0.05833333 0.04894737 0.48222224 0.17875000 0.22818182 0.22769231 0.23833333 0.24285715 0.37833333
## 870 ## 871 ## 872 ## 873 ## 874 ## 875 ## 876 ## 877 ## 888 ## 889 ## 881 ## 882 ## 883 ## 884 ## 885 ## 886 ## 887 ## 888	0.11916666 Inf 0.08566038 0.62500000 0.16894737 0.16000000 0.42999999 1.20666663 0.57749999 0.05833333 0.04894737 0.48222224 0.17875000 0.22818182 0.22769231 0.23833333 0.24285715 0.37833333 0.24062499
## 870 ## 871 ## 872 ## 873 ## 874 ## 875 ## 876 ## 877 ## 880 ## 881 ## 882 ## 883 ## 884 ## 885 ## 886 ## 888 ## 888	0.11916666 Inf 0.08566038 0.62500000 0.16894737 0.16000000 0.42999999 1.20666663 0.57749999 0.05833333 0.04894737 0.4822224 0.17875000 0.22818182 0.22769231 0.23833333 0.24285715 0.37833333 0.24062499 0.35000001
## 870 ## 871 ## 872 ## 873 ## 874 ## 875 ## 876 ## 877 ## 880 ## 881 ## 882 ## 883 ## 884 ## 885 ## 886 ## 887 ## 889 ## 889	0.11916666 Inf 0.08566038 0.62500000 0.16894737 0.16000000 0.42999999 1.20666663 0.57749999 0.05833333 0.04894737 0.48222224 0.17875000 0.22818182 0.22769231 0.23833333 0.24285715 0.37833333 0.24062499 0.35000001 0.30266666 0.57833334
## 870 ## 871 ## 872 ## 873 ## 874 ## 875 ## 876 ## 877 ## 880 ## 880 ## 881 ## 882 ## 883 ## 884 ## 885 ## 886 ## 887 ## 888 ## 889 ## 890 ## 891 ## 892	0.11916666 Inf 0.08566038 0.62500000 0.16894737 0.16000000 0.42999999 1.20666663 0.57749999 0.05833333 0.04894737 0.48222224 0.17875000 0.22818182 0.22769231 0.23833333 0.24285715 0.37833333 0.24062499 0.35000001 0.30266666 0.57833334 4.28999996
## 870 ## 871 ## 872 ## 873 ## 874 ## 875 ## 876 ## 877 ## 887 ## 880 ## 881 ## 882 ## 883 ## 884 ## 885 ## 886 ## 887 ## 888 ## 889 ## 890 ## 891 ## 892 ## 893	0.11916666 Inf 0.08566038 0.62500000 0.16894737 0.16000000 0.42999999 1.20666663 0.57749999 0.05833333 0.04894737 0.48222224 0.17875000 0.22818182 0.22769231 0.23833333 0.24285715 0.37833333 0.24062499 0.35000001 0.30266666 0.57833334 4.28999996 0.49250001
## 870 ## 871 ## 872 ## 873 ## 874 ## 875 ## 876 ## 877 ## 880 ## 880 ## 881 ## 882 ## 883 ## 884 ## 885 ## 886 ## 887 ## 888 ## 889 ## 890 ## 891 ## 892	0.11916666 Inf 0.08566038 0.62500000 0.16894737 0.16000000 0.42999999 1.20666663 0.57749999 0.05833333 0.04894737 0.48222224 0.17875000 0.22818182 0.22769231 0.23833333 0.24285715 0.37833333 0.24062499 0.35000001 0.30266666 0.57833334 4.28999996

```
0.42333333
## 896
## 897
               0.17050000
## 898
                      Inf
## 899
               0.35000001
## 900
               0.30799999
## 901
               0.10809524
## 902
               0.41000001
               0.22842106
## 903
## 904
               0.22578947
## 905
               0.13296296
## 906
               0.19421053
## 907
               0.22818182
## 908
               0.12869565
## 909
               0.03957447
## 910
               0.19944444
## 911
               0.40857141
## 912
               0.12257143
## 913
               0.37200000
## 914
               0.08285714
## 915
               0.04428571
```

shipdata<-read_csv(file="C:/Users/ushad/Downloads/ShipAccidents.csv")</pre>

```
## Rows: 40 Columns: 6
## -- Column specification ------
## Delimiter: ","
## chr (3): type, construction, operation
## dbl (3): rownames, service, incidents
##
## 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.
```

shipdata

```
## # A tibble: 40 x 6
##
     rownames type construction operation service incidents
##
        <dbl> <chr> <chr> <chr> <chr> <chr>
                  1960-64 1960-74
1960-64 1975-79
## 1
           1 A
                                          127
          2 A
                                           63
                          1960-74
1975-79
                                         1095
          3 A
## 3
                  1965-69
                                                      3
                                        1095
## 4
           4 A
                  1965-69
                                                      4
## 5
          5 A
                  1970-74
                                         1512
                                                      6
                             1960-74
## 6
           6 A
                  1970-74
                             1975-79
                                         3353
                                                    18
## 7
           7 A
                  1975-79
                             1960-74
                                                      0
                                           0
## 8
           8 A
                  1975-79
                             1975-79
                                          2244
                                                     11
## 9
           9 B
                  1960-64
                             1960-74
                                          44882
                                                      39
## 10
          10 B
                   1960-64
                              1975-79
                                          17176
                                                      29
## # i 30 more rows
```

```
shipdata %>% select(-incidents) %>% arrange(desc(type)) %>% arrange(construction)
```

A tibble: 40 x 5

```
##
      rownames type construction operation service
##
         <dbl> <chr> <chr>
                                   <chr>
                                               <dbl>
            34 E
                     1960-64
                                   1975-79
##
   1
                                                    0
##
            25 D
                     1960-64
                                   1960-74
                                                  251
   2
##
            26 D
                     1960-64
                                   1975-79
                                                  105
##
   4
            17 C
                     1960-64
                                                1179
                                   1960-74
##
            18 C
                     1960-64
                                   1975-79
                                                 552
## 6
            9 B
                     1960-64
                                               44882
                                   1960-74
##
   7
            10 B
                     1960-64
                                   1975-79
                                               17176
##
  8
            1 A
                     1960-64
                                                 127
                                   1960-74
                                   1975-79
##
  9
             2 A
                     1960-64
                                                  63
            35 E
                                                 789
## 10
                     1965-69
                                   1960-74
## # i 30 more rows
```

#it first arranged wrt to construction, then type
modifiedshipdata <- shipdata %>% select(-incidents) %>% arrange(construction) %>% arrange(desc(type))
modifiedshipdata

```
## # A tibble: 40 x 5
      rownames type construction operation service
##
##
         <dbl> <chr> <chr>
                                   <chr>
                                               <dbl>
##
                     1960-64
                                   1975-79
   1
            34 E
                                                   0
##
  2
            35 E
                     1965-69
                                   1960-74
                                                 789
    3
            36 E
##
                     1965-69
                                   1975-79
                                                 437
##
  4
            37 E
                     1970-74
                                                1157
                                   1960-74
##
  5
            38 E
                     1970-74
                                   1975-79
                                                2161
##
  6
            33 E
                     1975-79
                                   1975-79
                                                  45
##
    7
            39 E
                     1975-79
                                   1960-74
                                                   0
##
  8
            40 E
                     1975-79
                                   1975-79
                                                 542
## 9
            25 D
                     1960-64
                                   1960-74
                                                 251
            26 D
                                                 105
## 10
                     1960-64
                                   1975-79
## # i 30 more rows
```

#another way of adding columns
shipdata %>% add_column(newcol = shipdata\$service - shipdata\$incidents, newcol2='0')

```
## # A tibble: 40 x 8
      rownames type construction operation service incidents newcol newcol2
         <dbl> <chr> <chr>
                                              <dbl>
                                                         <dbl>
                                                               <dbl> <chr>
##
                                  <chr>>
                                  1960-74
##
   1
             1 A
                     1960-64
                                                127
                                                             0
                                                                  127 0
##
  2
             2 A
                     1960-64
                                  1975-79
                                                 63
                                                             0
                                                                   63 0
                                                                 1092 0
##
  3
             3 A
                     1965-69
                                  1960-74
                                               1095
                                                             3
                                                                 1091 0
                                               1095
## 4
             4 A
                     1965-69
                                  1975-79
                                                             4
##
  5
             5 A
                     1970-74
                                  1960-74
                                               1512
                                                             6
                                                                 1506 0
##
  6
             6 A
                     1970-74
                                  1975-79
                                               3353
                                                            18
                                                                 3335 0
##
  7
             7 A
                     1975-79
                                  1960-74
                                                  0
                                                            0
                                                                    0 0
                                               2244
                                                                 2233 0
##
   8
             8 A
                     1975-79
                                  1975-79
                                                            11
                                              44882
##
  9
             9 B
                     1960-64
                                  1960-74
                                                            39 44843 0
## 10
            10 B
                     1960-64
                                  1975-79
                                              17176
                                                            29 17147 0
## # i 30 more rows
```

#i think mutate has some functions like cummean() #associated with itself which add_column does not, wh

#tinytex::install_tinytex()