Assignment 1

Team 6

2023-02-09

GITHUB: https://github.com/ritikaamballal/Basics-of-R.git

```
library(dplyr)
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
      filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
library(tidyverse)
## -- Attaching packages ------ tidyverse 1.3.2
## --
## v ggplot2 3.4.0 v purrr 1.0.1 ## v tibble 3.1.8 v stringr 1.5.0
## v tidyr 1.3.0 v forcats 1.0.0
## v readr
           2.1.3
## -- Conflicts -----
                                              ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                    masks stats::lag()
library(lattice)
SP <-read.csv("C:/Users/ritikaa/Desktop/data set for R/StudentsPerformance.csv")
\#print the structure of the dataset
str(SP)
## 'data.frame': 1000 obs. of 8 variables:
## $ gender
                                : chr "female" "female" "female" "male" ...
## $ race.ethnicity
                                : chr "group B" "group C" "group B" "group A" ...
## $ parental.level.of.education: chr "bachelor's degree" "some college" "master's degree" "associate
```

```
## $ lunch : chr "standard" "standard" "standard" "free/reduced" ...
## $ test.preparation.course : chr "none" "completed" "none" "none" ...
## $ math.score : int 72 69 90 47 76 71 88 40 64 38 ...
## $ reading.score : int 72 90 95 57 78 83 95 43 64 60 ...
## $ writing.score : int 74 88 93 44 75 78 92 39 67 50 ...
```

#all the variables in the dataset

names(SP)

```
## [1] "gender" "race.ethnicity"
## [3] "parental.level.of.education" "lunch"
## [5] "test.preparation.course" "math.score"
## [7] "reading.score" "writing.score"
```

#first 15 rows

head(SP, 15)

##		•	race.ethnicity pa	arental.leve	el.of.education	
##	1	female	group B	bac	chelor's degree	standard
##	2	female	group C		some college	standard
##	3	female	group B		naster's degree	
##	4	${\tt male}$	group A	asso	ociate's degree	free/reduced
##	5	${\tt male}$	group C		some college	standard
##	6	female	group B	asso	ociate's degree	
##	7	female	group B		some college	standard
##	8	${\tt male}$	group B		some college	free/reduced
##	9	male	group D		high school	free/reduced
##	10	female	group B		high school	free/reduced
##	11	male	group C		ciate's degree	
##	12	male	group D	asso	ciate's degree	standard
##	13	female	group B		high school	standard
##	14	male	group A		some college	standard
##	15	female	group A	r	naster's degree	${\tt standard}$
					•	
##		test.p	reparation.course		_	
## ##	1	test.pr			reading.score 72	
	1 2	test.p	reparation.course	math.score	_	writing.score
## ##	_	test.p	reparation.course none	math.score 72	72 90 95	writing.score 74
## ## ##	2 3 4	test.p	reparation.course none completed	math.score 72 69	72 90 95 57	writing.score 74 88 93 44
## ## ##	2	test.pn	reparation.course none completed none	math.score 72 69 90	72 90 95	writing.score 74 88 93
## ## ## ##	2 3 4	test.p	reparation.course none completed none none	math.score 72 69 90 47 76 71	72 90 95 57 78 83	writing.score 74 88 93 44 75 78
## ## ## ##	2 3 4 5 6 7	test.pi	reparation.course none completed none none	math.score 72 69 90 47 76 71 88	72 90 95 57 78 83 95	writing.score 74 88 93 44 75 78
## ## ## ## ##	2 3 4 5 6 7 8	test.pi	reparation.course none completed none none none completed none	math.score 72 69 90 47 76 71 88 40	72 90 95 57 78 83 95 43	writing.score 74 88 93 44 75 78 92 39
## ## ## ## ##	2 3 4 5 6 7	test.p	reparation.course none completed none none none completed	math.score 72 69 90 47 76 71 88	72 90 95 57 78 83 95	writing.score 74 88 93 44 75 78
## ## ## ## ## ##	2 3 4 5 6 7 8	test.p	reparation.course none completed none none none completed none	math.score 72 69 90 47 76 71 88 40 64	72 90 95 57 78 83 95 43	writing.score 74 88 93 44 75 78 92 39 67 50
## ## ## ## ## ##	2 3 4 5 6 7 8	test.p	reparation.course none completed none none none completed none completed completed	math.score 72 69 90 47 76 71 88 40 64	72 90 95 57 78 83 95 43 64 60 54	writing.score 74 88 93 44 75 78 92 39 67
## ## ## ## ## ## ##	2 3 4 5 6 7 8 9	test.pi	reparation.course none completed none none none completed none completed none completed none	math.score 72 69 90 47 76 71 88 40 64	72 90 95 57 78 83 95 43 64	writing.score 74 88 93 44 75 78 92 39 67 50
## ## ## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11	test.pi	reparation.course none completed none none none completed none completed none completed none none	math.score 72 69 90 47 76 71 88 40 64 38	72 90 95 57 78 83 95 43 64 60 54 52	writing.score 74 88 93 44 75 78 92 39 67 50 52
## ## ## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11 12	test.pr	reparation.course none completed none none none completed none completed none completed none none	math.score 72 69 90 47 76 71 88 40 64 38 58	72 90 95 57 78 83 95 43 64 60 54 52 81	writing.score 74 88 93 44 75 78 92 39 67 50 52 43 73 70
## ## ## ## ## ## ## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11 12 13	test.pr	reparation.course none completed none none none completed none completed none completed none none none	math.score 72 69 90 47 76 71 88 40 64 38 58 40 65	72 90 95 57 78 83 95 43 64 60 54 52	writing.score 74 88 93 44 75 78 92 39 67 50 52 43 73

#userdefined function

```
grpnbr <-function()
{
   print("Hello Team 6")
}
grpnbr()</pre>
```

[1] "Hello Team 6"

#create a new data frame by joining variables from the dataset

```
SP1 <- SP %>%
  mutate(id = row_number()) %>%
  gather(key = "Subject", value = "Score", math.score)
head(SP1,15)
```

```
##
      gender race.ethnicity parental.level.of.education
                                                                  lunch
## 1
      female
                     group B
                                        bachelor's degree
                                                               standard
## 2
     female
                                             some college
                                                               standard
                     group C
## 3
      female
                                          master's degree
                                                               standard
                     group B
## 4
        male
                                       associate's degree free/reduced
                     group A
## 5
        male
                     group C
                                             some college
                                                               standard
## 6
     female
                     group B
                                       associate's degree
                                                               standard
## 7
      female
                     group B
                                             some college
                                                               standard
## 8
        male
                     group B
                                             some college free/reduced
## 9
        male
                     group D
                                              high school free/reduced
## 10 female
                     group B
                                              high school free/reduced
## 11
        male
                     group C
                                       associate's degree
                                                               standard
## 12
        male
                     group D
                                       associate's degree
                                                               standard
## 13 female
                                              high school
                                                               standard
                     group B
## 14
        male
                     group A
                                             some college
                                                               standard
##
  15 female
                                          master's degree
                                                               standard
                     group A
##
      test.preparation.course reading.score writing.score id
                                                                   Subject Score
## 1
                                           72
                                                          74
                                                              1 math.score
                                                                               72
                          none
## 2
                     completed
                                           90
                                                          88
                                                              2 math.score
                                                                               69
## 3
                                                              3 math.score
                                           95
                                                          93
                                                                               90
                          none
## 4
                                           57
                                                          44
                                                              4 math.score
                                                                               47
                          none
## 5
                                           78
                                                          75
                                                                               76
                          none
                                                             5 math.score
## 6
                          none
                                           83
                                                             6 math.score
                                                                               71
## 7
                     completed
                                           95
                                                          92
                                                              7 math.score
                                                                               88
## 8
                                           43
                                                              8 math.score
                                                                               40
                          none
## 9
                                                              9 math.score
                     completed
                                           64
                                                                               64
## 10
                                                          50 10 math.score
                                           60
                                                                               38
                          none
## 11
                          none
                                           54
                                                          52 11 math.score
                                                                               58
## 12
                                           52
                                                          43 12 math.score
                                                                               40
                          none
## 13
                                                                               65
                          none
                                           81
                                                          73 13 math.score
## 14
                                           72
                                                          70 14 math.score
                                                                               78
                     completed
## 15
                                           53
                                                          58 15 math.score
                                                                               50
                          none
```

#filter for maths core which equals to 89

SP %>% filter(math.score == 89)

```
gender race.ethnicity parental.level.of.education
##
                                                             lunch
## 1
       male
                    group D
                                         master's degree standard
## 2
       male
                    group E
                                      associate's degree standard
## 3
       male
                                        some high school standard
                    group D
## 4
       male
                    group D
                                             high school standard
## 5
       male
                    group E
                                        some high school standard
                                       bachelor's degree standard
## 6 female
                    group D
     test.preparation.course math.score reading.score writing.score
## 1
                         none
                                       89
                                                      84
                                                                     82
## 2
                                                                     74
                                       89
                                                      76
                         none
## 3
                                       89
                                                      88
                                                                     82
                    completed
## 4
                                       89
                                                      87
                                                                     79
                         none
## 5
                    completed
                                       89
                                                      84
                                                                     77
## 6
                                       89
                                                     100
                                                                    100
                         none
```

#identify duplicate

duplicated(SP)

```
##
                                                                                                [1] FALSE FALSE
##
                                                                                  [13] FALSE FALSE
##
                                                                                [25] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
  ##
                                                                                [37] FALSE FALSE
##
                                                                                [49] FALSE F
                                                                                [61] FALSE FALSE
##
##
                                                                                [73] FALSE F
##
                                                                                  [85] FALSE FALSE
                                                                                [97] FALSE F
##
                                                                [109] FALSE 
                                                                [121] FALSE 
##
                                                                [133] FALSE 
                                                                [145] FALSE 
##
                                                                [157] FALSE 
                                                                [169] FALSE 
##
##
                                                                [181] FALSE 
                                                                [193] FALSE FALSE
##
                                                              [205] FALSE 
##
                                                                [217] FALSE FALSE
##
                                                                [229] FALSE 
                                                                [241] FALSE 
##
                                                                [253] FALSE 
##
                                                                [265] FALSE 
                                                                [277] FALSE FALSE
##
                                                                [289] FALSE 
                                                                [301] FALSE FALSE
##
                                                                [313] FALSE 
##
                                                            [325] FALSE FALSE
                                                              [337] FALSE FALSE
                                                                [349] FALSE FALSE
##
                                                              [361] FALSE FALSE
```

[373] FALSE [385] FALSE ## [397] FALSE [409] FALSE ## [421] FALSE [433] FALSE ## [445] FALSE [457] FALSE ## ## [469] FALSE [481] FALSE ## [493] FALSE [505] FALSE ## [517] FALSE [529] FALSE [541] FALSE ## [553] FALSE ## [565] FALSE [577] FALSE ## [589] FALSE [601] FALSE ## ## [613] FALSE [625] FALSE [637] FALSE ## [649] FALSE ## [661] FALSE ## [673] FALSE ## [685] FALSE [697] FALSE [709] FALSE [721] FALSE ## [733] FALSE ## [745] FALSE [757] FALSE ## [769] FALSE ## [781] FALSE ## [793] FALSE ## [805] FALSE ## [817] FALSE [829] FALSE ## [841] FALSE ## [853] FALSE ## [865] FALSE [877] FALSE [889] FALSE ## [901] FALSE [913] FALSE ## [925] FALSE ## [937] FALSE ## [949] FALSE [961] FALSE ## [973] FALSE ## [985] FALSE [997] FALSE FALSE FALSE

SP[!duplicated(SP),]

##		gender	race.ethnicitv	parental.level.of.education	lunch
##	1	female	group B	bachelor's degree	standard
##	2	female	group C	some college	standard
##	3	female	group B	master's degree	standard
##	4	male	group A	associate's degree	free/reduced
##	5	male	group C	some college	standard
##	6	female	group B	associate's degree	standard
##	7	female	group B	some college	standard
##	8	male	group B	some college	free/reduced
##	9	male	group D	high school	free/reduced
##	10	female	group B	high school	free/reduced
##	11	male	group C	associate's degree	standard
##	12	male	group D	associate's degree	standard
##	13	female	group B	high school	standard
##	14	male	group A	some college	standard
##	15	female	group A	master's degree	standard
##	16	female	group C	some high school	standard
##	17	male	group C	high school	standard
##	18	female	group B	some high school	
	19	male	group C	master's degree	
##		female	group C	associate's degree	
##		male	group D	high school	standard
	22	female	group B	some college	free/reduced
##		male	group D	some college	standard
	24	female	group C	some high school	standard
##		male	group D	bachelor's degree	
##		male	group A	master's degree	
##		male	group B	some college	standard
##		female	group C	bachelor's degree	standard
	29	male	group C	high school	standard
	30	female	group D	master's degree	standard
##		female	group D	some college	standard
##		female	group B	some college	standard
##		female	group E	master's degree	
	34	male	group D	some college	standard
##		male	group E	some college	standard
##		male	group E	associate's degree	standard
	37	female	group D	associate's degree	standard
	38	female female	group D	some high school	
	39		group D	associate's degree	
	40	male	group B	associate's degree	
	41	male	group C	associate's degree	
	42 43	female female	group C	associate's degree	standard
	43	male	group B	associate's degree	standard
	44	male female	group B	associate's degree	free/reduced
	46	male	group E	associate's degree	standard
	47	female	group B group A	associate's degree	
	48	female	group C	high school	
	49	female		associate's degree	
##	43	Temate	group D	associate s degree	TTEE/TEUTCEU

##	50	male	group	С	high school	
##	51	male	group	E	some college	standard
##	52	male	group	E	associate's degree	
##	53	male	group	C	some college	standard
##	54	male	group	D	high school	
##	55	female	group	С	some high school	free/reduced
##	56	female	group	C	high school	free/reduced
##	57	female	group	E	associate's degree	standard
##	58	male	group	D	associate's degree	
##	59	male	group	D	some college	standard
##	60	female	group	С	some high school	free/reduced
##	61	male	group	E	bachelor's degree	free/reduced
##	62	male	group	Α	some high school	free/reduced
##	63	male	group	Α	associate's degree	free/reduced
##	64	female	group	С	associate's degree	standard
##	65	female	group	D	some high school	standard
##	66	male	group	В	some high school	standard
##	67	male	group	D	some high school	free/reduced
##	68	female	group	С	some college	standard
##	69	male	group	В	associate's degree	free/reduced
##	70	female	group	С	associate's degree	standard
##	71	female	group	D	some college	free/reduced
##	72	male	group	D	some college	standard
##	73	female	group	Α	associate's degree	free/reduced
##	74	male	group	С	some high school	free/reduced
##	75	male	group	С	some high school	standard
##	76	male	group	В	associate's degree	free/reduced
##	77	male	group	E	some high school	standard
##	78	male	group	Α	bachelor's degree	standard
##	79	female	group	D	some high school	standard
##	80	female	group		master's degree	standard
##	81	female	group	В	associate's degree	standard
##	82	male	group		high school	free/reduced
##	83	male	group		some college	free/reduced
##	84	male	group		associate's degree	standard
##	85	male	group		high school	free/reduced
##	86	female	group		some college	standard
##	87	female	group	С	some college	free/reduced
##	88	female	group	D	associate's degree	standard
##	89	female	group	Α	some college	standard
##	90	female	group	D	some high school	standard
##	91	female	group	С	bachelor's degree	standard
##	92	male	group	С	high school	free/reduced
##	93	male	group	С	high school	standard
##	94	male	group		associate's degree	free/reduced
##	95	female	group		some college	standard
##	96	male	group		associate's degree	free/reduced
##	97	male	group		some high school	standard
##	98	female	group	E	some college	standard
##	99	female	group		9	free/reduced
##	100	female	group		bachelor's degree	standard
##	101	male	group		some college	standard
##	102	male	group		bachelor's degree	standard
##	103	female	group		associate's degree	standard
			5 1		5	

##	104	male	group	В	high school	standard
##	105	male	group	С	some college	standard
##	106	female	group	С	some college	standard
##	107	female	group	D	master's degree	standard
##	108	male	group	E	associate's degree	standard
##	109	female	group	В	associate's degree	free/reduced
##	110	female	group	В	some high school	standard
##	111	female	group	D	associate's degree	free/reduced
##	112	male	group	С	high school	standard
##	113	male	group	Α	associate's degree	standard
##	114	female	group	D	some college	standard
##	115	female	group	E	bachelor's degree	standard
##	116	male	group	С	high school	standard
##	117	female	group	В	bachelor's degree	free/reduced
##	118	female	group	D	bachelor's degree	standard
##	119	female	group	D	some high school	standard
##	120	female	group	С	some college	standard
##	121	female	group	С	bachelor's degree	standard
##	122	male	group	В	associate's degree	standard
##	123	female	group	С	some college	standard
##	124	male	group	D	high school	free/reduced
##	125	male	group	E	some college	standard
##	126	female	group	В	high school	standard
##	127	male	group	В	some high school	standard
##	128	male	group	D	some college	standard
##	129	male	group	D	master's degree	standard
##	130	female	group	Α	bachelor's degree	standard
##	131	male	group	D	master's degree	standard
##	132	male	group	C	some high school	free/reduced
##	133	male	group	E	some college	free/reduced
##	134	female	group	С	some college	standard
##	135	male	group	D	bachelor's degree	free/reduced
##	136	male	group	C	bachelor's degree	standard
##	137	male	group	В	some high school	standard
##	138	male	group	E	high school	standard
##	139	female	group	С	associate's degree	standard
	140	male	group	D	some college	standard
##	141	female	group	D	some high school	standard
##	142	female	group	С	some college	free/reduced
##	143	female	group	E		free/reduced
##	144	male	group	Α	high school	standard
##	145	male	group	D	some college	standard
##	146	female	group	С	some college	free/reduced
##	147	male	group	В	some high school	standard
##	148	male	group	С	associate's degree	free/reduced
##	149	female	group	D	bachelor's degree	standard
##	150	male	group	E	associate's degree	free/reduced
	151	male	group	Α	some high school	standard
	152	male	group	Α	bachelor's degree	standard
	153	female	group	В	associate's degree	standard
	154	male	group	D	bachelor's degree	standard
	155	male	group		some high school	standard
##	156	female	group	С	some college	standard
##	157	female	group	E	high school	free/reduced

```
## 158
          male
                                               some college free/reduced
                       group B
                                                                 standard
## 159
        female
                                         associate's degree
                       group B
## 160
          male
                       group D
                                         associate's degree free/reduced
## 161
          male
                                         associate's degree free/reduced
                       group B
## 162
        female
                       group E
                                                some college free/reduced
## 163
          male
                                            master's degree free/reduced
                       group B
                                                high school
## 164
          male
                       group C
                                                                 standard
## 165
        female
                       group E
                                            master's degree
                                                                 standard
## 166
        female
                       group C
                                          bachelor's degree
                                                                  standard
## 167
          male
                       group C
                                                high school free/reduced
                                            master's degree free/reduced
## 168
        female
                       group B
## 169
        female
                       group B
                                                high school
                                                                 standard
## 170
        female
                       group C
                                               some college free/reduced
## 171
          male
                       group A
                                                high school
                                                                 standard
                                           some high school
## 172
          male
                                                                 standard
                       group E
## 173
        female
                       group D
                                               some college
                                                                  standard
## 174
        female
                       group C
                                         associate's degree
                                                                  standard
## 175
        female
                       group C
                                          bachelor's degree free/reduced
## 176
        female
                       group C
                                            master's degree
                                                                 standard
## 177
        female
                       group B
                                                 high school free/reduced
## 178
        female
                       group C
                                         associate's degree
                                                                 standard
## 179
        female
                       group B
                                            master's degree free/reduced
## 180
        female
                                           some high school
                       group D
                                                                 standard
## 181
          male
                                            master's degree free/reduced
                       group C
## 182
        female
                                               some college free/reduced
                       group C
## 183
        female
                       group E
                                                high school
                                                                 standard
## 184
        female
                       group D
                                         associate's degree
                                                                 standard
## 185
                                           some high school free/reduced
          male
                       group C
                                         associate's degree free/reduced
## 186
          male
                       group C
## 187
          male
                       group E
                                                high school
                                                                 standard
## 188
          male
                       group D
                                           some high school
                                                                  standard
## 189
          male
                       group B
                                           some high school free/reduced
## 190
        female
                       group C
                                          bachelor's degree
                                                                 standard
## 191
        female
                       group E
                                         associate's degree
                                                                 standard
## 192
          male
                       group D
                                               some college
                                                                 standard
## 193
        female
                                           some high school
                                                                 standard
                       group B
## 194
          male
                       group D
                                               some college
                                                                 standard
## 195
        female
                       group C
                                            master's degree
                                                                 standard
## 196
          male
                                         associate's degree
                                                                  standard
                       group D
## 197
          male
                                           some high school free/reduced
                       group C
                                                high school free/reduced
## 198
          male
                       group E
## 199
        female
                       group B
                                               some college free/reduced
## 200
        female
                                          bachelor's degree free/reduced
                       group B
##
   201
        female
                       group C
                                         associate's degree
                                                                 standard
## 202
        female
                                               some college free/reduced
                       group D
## 203
          male
                       group C
                                         associate's degree
                                                                 standard
                       group B
## 204
        female
                                         associate's degree
                                                                 standard
## 205
          male
                       group C
                                               some college
                                                                 standard
## 206
                       group D
          male
                                           some high school
                                                                 standard
## 207
          male
                       group E
                                          bachelor's degree
                                                                  standard
## 208
          male
                       group E
                                                high school
                                                                  standard
## 209
        female
                       group B
                                               some college free/reduced
## 210
        female
                       group B
                                               some college free/reduced
## 211
          male
                       group D
                                           some high school free/reduced
```

```
## 212
          male
                                                some college free/reduced
                       group C
## 213
        female
                       group C
                                                 high school free/reduced
## 214
          male
                       group C
                                         associate's degree free/reduced
## 215
          male
                       group E
                                                 high school
                                                                  standard
## 216
          male
                       group B
                                            some high school
                                                                  standard
## 217
        female
                                         associate's degree free/reduced
                       group E
## 218
        female
                                                 high school free/reduced
                       group C
## 219
          male
                       group B
                                                 high school free/reduced
## 220
          male
                       group B
                                            some high school
                                                                  standard
## 221
        female
                       group D
                                                 high school
                                                                  standard
## 222
          male
                       group B
                                         associate's degree
                                                                  standard
## 223
                                            some high school free/reduced
        female
                       group C
  224
          male
                       group D
                                            some high school
                                                                  standard
## 225
        female
                       group B
                                         associate's degree
                                                                  standard
## 226
        female
                                             master's degree free/reduced
                       group E
## 227
        female
                       group C
                                                some college
                                                                  standard
  228
          male
                                                 high school
                                                                  standard
                       group D
## 229
          male
                                            some high school free/reduced
                       group A
## 230
        female
                       group C
                                                some college
                                                                  standard
## 231
          male
                       group D
                                                some college
                                                                  standard
##
  232
          male
                       group C
                                         associate's degree
                                                                  standard
## 233
        female
                       group B
                                          bachelor's degree
                                                                  standard
## 234
          male
                                            some high school
                                                                  standard
                       group E
## 235
          male
                                          bachelor's degree
                                                                  standard
                       group C
## 236
          male
                       group D
                                         associate's degree
                                                                  standard
## 237
          male
                       group D
                                          bachelor's degree free/reduced
## 238
        female
                       group D
                                            some high school
                                                                  standard
  239
          male
                       group B
                                                some college
                                                                  standard
## 240
          male
                                                                  standard
                       group C
                                         associate's degree
## 241
          male
                       group D
                                                 high school free/reduced
## 242
        female
                       group E
                                           bachelor's degree
                                                                  standard
  243
        female
                       group D
                                                 high school
                                                                  standard
## 244
          male
                       group E
                                                some college
                                                                  standard
## 245
          male
                       group D
                                            some high school
                                                                  standard
## 246
          male
                       group C
                                         associate's degree
                                                                  standard
                                         associate's degree
  247
          male
                                                                  standard
                       group E
## 248
        female
                       group B
                                                 high school
                                                                  standard
## 249
        female
                       group B
                                                 high school
                                                                  standard
## 250
          male
                                                 high school
                                                                  standard
                       group C
## 251
          male
                                                                  standard
                       group A
                                            some high school
## 252
        female
                                                some college free/reduced
                       group D
## 253
        female
                       group B
                                            some high school
                                                                  standard
   254
                                             master's degree
          male
                       group D
                                                                  standard
   255
                       group D
##
          male
                                                 high school
                                                                  standard
  256
        female
                       group E
                                                some college
                                                                  standard
## 257
        female
                       group C
                                         associate's degree free/reduced
                       group C
  258
          male
                                         associate's degree
                                                                  standard
  259
##
        female
                       group B
                                                some college
                                                                  standard
                                             master's degree free/reduced
  260
        female
                       group C
  261
##
        female
                       group C
                                            some high school free/reduced
##
  262
          male
                       group C
                                                some college
                                                                  standard
## 263
        female
                       group C
                                            some high school free/reduced
## 264
        female
                       group E
                                                 high school
                                                                  standard
## 265
          male
                       group D
                                                 high school
                                                                  standard
```

```
## 266
          male
                                           some high school free/reduced
                       group D
                                                                  standard
## 267
        female
                       group C
                                          bachelor's degree
## 268
                       group D
        female
                                                 high school
                                                                  standard
  269
        female
                       group D
                                         associate's degree
                                                                  standard
##
  270
        female
                       group E
                                                some college free/reduced
## 271
          male
                                          bachelor's degree
                                                                  standard
                       group C
## 272
          male
                                                                  standard
                       group C
                                                some college
## 273
        female
                       group D
                                         associate's degree free/reduced
## 274
        female
                       group D
                                                some college
                                                                  standard
##
  275
          male
                       group B
                                                some college
                                                                  standard
## 276
          male
                       group C
                                          bachelor's degree
                                                                  standard
## 277
        female
                       group C
                                           some high school
                                                                  standard
  278
        female
                       group E
                                                 high school
                                                                  standard
        female
## 279
                       group C
                                           some high school free/reduced
## 280
          male
                                           bachelor's degree free/reduced
                       group B
## 281
          male
                       group D
                                                 high school
                                                                  standard
  282
          male
                                                                  standard
                       group D
                                                 high school
  283
                       group D
##
        female
                                           bachelor's degree free/reduced
  284
        female
                       group D
                                                some college free/reduced
  285
##
        female
                       group B
                                           some high school
                                                                  standard
##
  286
          male
                       group B
                                         associate's degree
                                                                  standard
## 287
          male
                       group E
                                         associate's degree
                                                                  standard
## 288
                                                                  standard
        female
                                           some high school
                       group B
## 289
          male
                                          bachelor's degree free/reduced
                       group B
## 290
          male
                       group E
                                           some high school
                                                                  standard
## 291
          male
                       group C
                                         associate's degree
                                                                  standard
## 292
          male
                       group D
                                           some high school
                                                                  standard
## 293
          male
                       group C
                                           some high school
                                                                  standard
## 294
        female
                                          bachelor's degree
                                                                  standard
                       group E
## 295
          male
                       group D
                                                 high school free/reduced
## 296
                                         associate's degree free/reduced
          male
                       group B
## 297
          male
                       group A
                                           some high school
                                                                  standard
## 298
          male
                       group E
                                         associate's degree
                                                                  standard
## 299
          male
                       group C
                                                 high school free/reduced
## 300
          male
                       group D
                                         associate's degree free/reduced
## 301
          male
                                                some college free/reduced
                       group A
## 302
          male
                       group D
                                           some high school free/reduced
## 303
        female
                       group C
                                         associate's degree
                                                                  standard
## 304
          male
                                         associate's degree
                                                                  standard
                       group B
## 305
        female
                                         associate's degree
                                                                  standard
                       group C
## 306
          male
                                                some college
                                                                  standard
                       group A
## 307
          male
                       group E
                                                some college
                                                                  standard
   308
          male
                       group C
                                           some high school
                                                                  standard
   309
        female
##
                       group B
                                         associate's degree free/reduced
## 310
        female
                                                 high school free/reduced
                       group D
## 311
        female
                                         associate's degree
                                                                  standard
                       group B
                       group B
## 312
          male
                                          bachelor's degree
                                                                  standard
## 313
          male
                       group D
                                          bachelor's degree
                                                                  standard
## 314
        female
                       group C
                                         associate's degree free/reduced
## 315
        female
                       group C
                                          bachelor's degree
                                                                  standard
  316
          male
                                                                  standard
                       group C
                                                 high school
## 317
        female
                       group D
                                            master's degree
                                                                  standard
## 318
          male
                       group C
                                         associate's degree
                                                                  standard
## 319
          male
                       group B
                                          bachelor's degree
                                                                  standard
```

```
## 320
        female
                       group D
                                         associate's degree free/reduced
## 321
        female
                                                 high school free/reduced
                       group C
## 322
        female
                       group E
                                                 high school
                                                                  standard
##
  323
        female
                       group C
                                                some college
                                                                  standard
   324
##
        female
                       group C
                                            some high school free/reduced
##
   325
        female
                       group C
                                                 high school free/reduced
## 326
        female
                                                some college
                                                                  standard
                       group C
## 327
                       group C
          male
                                                some college
                                                                  standard
## 328
          male
                       group A
                                                some college free/reduced
## 329
          male
                       group C
                                         associate's degree
                                                                  standard
   330
        female
                       group B
                                            some high school
                                                                  standard
## 331
          male
                       group C
                                                 high school
                                                                  standard
   332
          male
                       group C
                                         associate's degree
                                                                  standard
## 333
                                         associate's degree
          male
                       group E
                                                                  standard
## 334
          male
                                         associate's degree
                                                                  standard
                       group B
## 335
        female
                       group C
                                          bachelor's degree
                                                                  standard
  336
        female
                       group B
                                                some college free/reduced
  337
                       group D
##
          male
                                            some high school
                                                                  standard
                                         associate's degree
  338
          male
                                                                  standard
                       group C
  339
##
        female
                       group B
                                            some high school free/reduced
                                            some high school free/reduced
##
  340
        female
                       group D
  341
          male
                       group C
                                                 high school free/reduced
## 342
        female
                       group C
                                                 high school
                                                                  standard
## 343
        female
                                                 high school
                                                                  standard
                       group B
## 344
                       group D
          male
                                         associate's degree
                                                                  standard
   345
          male
                       group D
                                                some college
                                                                  standard
## 346
        female
                       group C
                                                 high school
                                                                  standard
   347
                                                                  standard
          male
                       group B
                                                some college
## 348
        female
                                           bachelor's degree
                                                                  standard
                       group C
  349
          male
                       group D
                                                 high school free/reduced
## 350
          male
                       group E
                                          associate's degree
                                                                  standard
   351
        female
                       group B
                                          bachelor's degree
                                                                  standard
  352
##
          male
                       group E
                                                some college
                                                                  standard
  353
        female
                       group C
                                                                  standard
##
                                                some college
   354
        female
                       group C
                                         associate's degree
                                                                  standard
   355
        female
                                                                  standard
                       group C
                                                some college
##
  356
        female
                       group B
                                          bachelor's degree
                                                                  standard
##
  357
          male
                                         associate's degree
                                                                  standard
                       group A
  358
        female
                                                some college free/reduced
                       group C
  359
                                                some college free/reduced
##
          male
                       group D
   360
        female
                                                some college
                                                                  standard
                       group D
## 361
        female
                       group B
                                                 high school
                                                                  standard
   362
          male
                       group B
                                            some high school
                                                                  standard
   363
        female
##
                       group C
                                                some college
                                                                  standard
  364
        female
                       group D
                                            some high school free/reduced
## 365
          male
                       group C
                                                some college
                                                                  standard
## 366
          male
                       group A
                                          bachelor's degree free/reduced
## 367
          male
                       group C
                                                 high school
                                                                  standard
                       group C
  368
          male
                                          bachelor's degree free/reduced
  369
                                            some high school free/reduced
        female
                       group A
  370
        female
                                            some high school
                                                                  standard
                       group D
## 371
          male
                       group E
                                                some college
                                                                  standard
## 372
        female
                       group C
                                                some college free/reduced
## 373
          male
                       group D
                                            some high school
                                                                  standard
```

```
## 374
        female
                                                some college
                                                                  standard
                       group D
## 375
        female
                                          bachelor's degree
                                                                  standard
                       group D
## 376
          male
                       group E
                                         associate's degree free/reduced
## 377
        female
                       group D
                                            some high school
                                                                  standard
##
   378
        female
                       group D
                                            master's degree free/reduced
##
   379
        female
                                            some high school
                       group A
                                                                  standard
   380
          male
                                          bachelor's degree
                                                                  standard
                       group A
## 381
                       group B
        female
                                         associate's degree
                                                                  standard
## 382
          male
                       group C
                                         associate's degree
                                                                  standard
##
  383
          male
                       group C
                                            master's degree free/reduced
   384
        female
                       group E
                                            some high school free/reduced
  385
                                            some high school free/reduced
        female
##
                       group A
   386
        female
                       group E
                                                some college
                                                                  standard
   387
        female
                                          bachelor's degree
##
                       group E
                                                                  standard
   388
        female
                                         associate's degree free/reduced
                       group C
  389
        female
                       group D
                                                 high school
                                                                  standard
##
  390
          male
                                            master's degree
                                                                  standard
                       group D
## 391
          male
                       group E
                                            some high school free/reduced
## 392
        female
                       group D
                                                some college
                                                                  standard
## 393
          male
                       group E
                                                some college
                                                                  standard
##
   394
          male
                       group C
                                         associate's degree
                                                                  standard
## 395
        female
                       group C
                                            some high school
                                                                  standard
## 396
          male
                                                 high school free/reduced
                       group A
   397
        female
                                                 high school free/reduced
                       group B
        female
## 398
                       group C
                                         associate's degree
                                                                  standard
  399
          male
                       group B
                                            some high school
                                                                  standard
## 400
          male
                       group D
                                            some high school
                                                                  standard
## 401
        female
                       group C
                                            some high school
                                                                  standard
## 402
          male
                                                                  standard
                       group A
                                                some college
## 403
        female
                                                some college free/reduced
                       group A
## 404
        female
                       group D
                                                 high school
                                                                  standard
   405
        female
                       group C
                                                 high school
                                                                  standard
## 406
        female
                       group C
                                            some high school
                                                                  standard
## 407
          male
                       group B
                                         associate's degree
                                                                  standard
## 408
        female
                       group B
                                          associate's degree
                                                                  standard
                                                 high school free/reduced
## 409
        female
                       group D
## 410
          male
                       group D
                                         associate's degree
                                                                  standard
## 411
        female
                                            master's degree
                                                                  standard
                       group D
## 412
          male
                                                some college
                                                                  standard
                       group E
## 413
          male
                                         associate's degree
                                                                  standard
                       group D
## 414
          male
                                           some high school
                                                                  standard
                       group B
## 415
        female
                       group C
                                          bachelor's degree free/reduced
## 416
          male
                       group E
                                                 high school
                                                                  standard
## 417
          male
                       group C
                                          bachelor's degree
                                                                  standard
## 418
          male
                       group C
                                         associate's degree
                                                                  standard
## 419
          male
                                                                  standard
                       group D
                                                some college
                       group E
## 420
          male
                                                 high school free/reduced
## 421
                                         associate's degree free/reduced
        female
                       group C
## 422
        female
                       group D
                                                 high school
                                                                  standard
## 423
        female
                       group D
                                            master's degree free/reduced
## 424
        female
                       group A
                                            some high school
                                                                  standard
## 425
          male
                       group B
                                                some college free/reduced
## 426
        female
                       group C
                                                some college free/reduced
## 427
          male
                       group C
                                          bachelor's degree
                                                                  standard
```

```
group C
## 428
          male
                                           some high school free/reduced
## 429
          male
                                           some high school free/reduced
                       group A
## 430
          male
                       group C
                                           some high school free/reduced
## 431
          male
                                         associate's degree free/reduced
                       group C
## 432
        female
                       group C
                                                 high school
                                                                  standard
## 433
          male
                                                 high school
                                                                  standard
                       group C
## 434
        female
                                           some high school free/reduced
                       group A
## 435
                       group C
          male
                                           some high school
                                                                  standard
## 436
          male
                       group C
                                                some college free/reduced
## 437
          male
                       group D
                                         associate's degree
                                                                  standard
## 438
          male
                       group D
                                         associate's degree free/reduced
## 439
          male
                       group C
                                                                  standard
                                                 high school
## 440
          male
                       group D
                                           some high school
                                                                  standard
## 441
        female
                       group C
                                                some college
                                                                  standard
## 442
        female
                                                                  standard
                       group D
                                                 high school
## 443
        female
                       group A
                                           some high school free/reduced
## 444
        female
                                         associate's degree
                                                                  standard
                       group B
## 445
          male
                                           some high school free/reduced
                       group A
## 446
        female
                       group C
                                           some high school
                                                                  standard
## 447
          male
                       group D
                                                some college free/reduced
## 448
          male
                       group C
                                                 high school
                                                                  standard
## 449
          male
                       group B
                                                 high school
                                                                  standard
## 450
          male
                                         associate's degree
                       group B
                                                                  standard
## 451
        female
                                                some college free/reduced
                       group C
        female
## 452
                       group E
                                                some college
                                                                  standard
## 453
        female
                       group C
                                         associate's degree free/reduced
## 454
          male
                       group C
                                                some college free/reduced
  455
        female
                                         associate's degree free/reduced
                       group C
## 456
          male
                       group C
                                          bachelor's degree free/reduced
## 457
        female
                       group D
                                          bachelor's degree
                                                                  standard
## 458
          male
                       group D
                                         associate's degree free/reduced
  459
        female
                       group E
                                          bachelor's degree
                                                                  standard
## 460
          male
                       group B
                                                 high school
                                                                  standard
## 461
          male
                       group C
                                          bachelor's degree free/reduced
## 462
          male
                       group B
                                                some college free/reduced
## 463
        female
                       group E
                                                some college
                                                                  standard
## 464
        female
                       group C
                                                some college free/reduced
## 465
          male
                                          bachelor's degree
                                                                  standard
                       group A
## 466
        female
                                                some college
                                                                  standard
                       group C
        female
## 467
                                         associate's degree free/reduced
                       group D
                                                 high school free/reduced
## 468
          male
                       group A
## 469
        female
                       group A
                                                 high school free/reduced
## 470
          male
                       group C
                                                some college
                                                                  standard
## 471
        female
                                                                  standard
                       group C
                                         associate's degree
## 472
        female
                                                                  standard
                       group C
                                                 high school
## 473
        female
                       group C
                                         associate's degree
                                                                  standard
## 474
        female
                       group D
                                           some high school
                                                                  standard
## 475
        female
                       group B
                                         associate's degree
                                                                  standard
## 476
                       group D
        female
                                          bachelor's degree
                                                                  standard
## 477
          male
                       group E
                                          bachelor's degree
                                                                  standard
## 478
          male
                                                                  standard
                       group D
                                         associate's degree
## 479
        female
                       group D
                                            master's degree
                                                                  standard
## 480
          male
                       group E
                                         associate's degree
                                                                  standard
## 481
          male
                       group B
                                                 high school
                                                                  standard
```

```
## 482
        female
                                         associate's degree free/reduced
                       group D
## 483
          male
                                                some college free/reduced
                       group C
## 484
                                                 high school
          male
                       group A
                                                                  standard
## 485
        female
                                         associate's degree
                       group B
                                                                  standard
## 486
          male
                       group C
                                                 high school
                                                                  standard
##
  487
          male
                       group D
                                                some college free/reduced
## 488
        female
                                         associate's degree free/reduced
                       group C
## 489
                       group B
          male
                                            some high school
                                                                  standard
## 490
          male
                       group A
                                         associate's degree free/reduced
## 491
        female
                       group A
                                         associate's degree free/reduced
## 492
        female
                       group C
                                         associate's degree
                                                                  standard
## 493
        female
                       group C
                                                some college
                                                                  standard
## 494
        female
                       group C
                                          bachelor's degree
                                                                  standard
## 495
        female
                       group B
                                                 high school
                                                                  standard
## 496
          male
                                                                  standard
                       group D
                                                 high school
## 497
        female
                       group C
                                                some college
                                                                  standard
## 498
        female
                       group D
                                                some college free/reduced
## 499
        female
                       group B
                                            some high school
                                                                  standard
                                                some college
## 500
          male
                                                                  standard
                       group E
## 501
        female
                       group D
                                            master's degree
                                                                  standard
##
  502
        female
                       group B
                                         associate's degree
                                                                  standard
## 503
          male
                       group C
                                                some college free/reduced
## 504
        female
                                         associate's degree
                                                                  standard
                       group E
## 505
        female
                                            master's degree free/reduced
                       group D
        female
## 506
                       group B
                                            some high school
                                                                  standard
## 507
          male
                       group A
                                                 high school
                                                                  standard
## 508
          male
                       group B
                                          bachelor's degree free/reduced
## 509
          male
                       group C
                                            master's degree
                                                                  standard
## 510
        female
                       group C
                                          bachelor's degree
                                                                  standard
## 511
          male
                       group D
                                                some college
                                                                  standard
## 512
          male
                       group A
                                            some high school
                                                                  standard
## 513
          male
                       group D
                                            some high school free/reduced
## 514
        female
                       group B
                                            some high school
                                                                  standard
## 515
        female
                       group B
                                            master's degree free/reduced
## 516
        female
                       group C
                                            some high school
                                                                  standard
                                                some college
## 517
        female
                                                                  standard
                       group D
## 518
        female
                       group E
                                                some college
                                                                  standard
## 519
        female
                       group D
                                            some high school
                                                                  standard
## 520
        female
                                                 high school free/reduced
                       group B
## 521
          male
                                                                  standard
                       group D
                                                some college
## 522
        female
                                         associate's degree
                                                                  standard
                       group C
## 523
          male
                       group D
                                          bachelor's degree
                                                                  standard
## 524
                                            master's degree free/reduced
          male
                       group C
## 525
          male
                                                                  standard
                       group C
                                                 high school
## 526
          male
                       group E
                                                some college
                                                                  standard
## 527
          male
                       group C
                                            some high school free/reduced
## 528
        female
                       group C
                                                 high school free/reduced
## 529
        female
                                          bachelor's degree free/reduced
                       group D
## 530
        female
                       group C
                                         associate's degree
                                                                  standard
## 531
        female
                       group C
                                         associate's degree
                                                                  standard
## 532
        female
                                                                  standard
                       group C
                                            some high school
## 533
          male
                                         associate's degree
                       group E
                                                                  standard
## 534
        female
                       group E
                                         associate's degree
                                                                  standard
## 535
          male
                       group B
                                                 high school
                                                                  standard
```

```
## 536
        female
                       group C
                                          bachelor's degree free/reduced
## 537
          male
                                         associate's degree
                                                                  standard
                       group C
## 538
                                                high school
        female
                       group D
                                                                  standard
## 539
                                                                  standard
          male
                       group E
                                          bachelor's degree
## 540
          male
                       group A
                                         associate's degree
                                                                  standard
## 541
          male
                                                high school
                                                                  standard
                       group C
## 542
          male
                                         associate's degree free/reduced
                       group D
## 543
        female
                       group C
                                         associate's degree
                                                                  standard
## 544
        female
                       group D
                                         associate's degree
                                                                  standard
## 545
        female
                       group D
                                            master's degree
                                                                  standard
## 546
          male
                       group E
                                           some high school free/reduced
## 547
        female
                                           some high school
                                                                  standard
                       group A
   548
          male
                       group C
                                                high school
                                                                  standard
## 549
                                                high school free/reduced
        female
                       group C
## 550
          male
                       group C
                                            master's degree
                                                                  standard
## 551
          male
                       group C
                                           some high school free/reduced
## 552
          male
                                          bachelor's degree free/reduced
                       group B
## 553
                       group B
        female
                                         associate's degree
                                                                  standard
                                               some college free/reduced
## 554
          male
                       group D
## 555
          male
                       group E
                                         associate's degree
                                                                  standard
   556
        female
                       group C
                                                some college free/reduced
   557
        female
                       group C
                                         associate's degree
                                                                  standard
## 558
          male
                       group C
                                            master's degree free/reduced
## 559
        female
                                         associate's degree free/reduced
                       group B
## 560
          male
                       group D
                                           some high school
                                                                  standard
   561
        female
                       group D
                                               some college
                                                                  standard
## 562
        female
                       group C
                                               some college
                                                                  standard
   563
                                          bachelor's degree
          male
                       group C
                                                                  standard
## 564
        female
                                                some college free/reduced
                       group D
## 565
          male
                       group B
                                          bachelor's degree free/reduced
## 566
                                         associate's degree
          male
                       group B
                                                                  standard
## 567
        female
                       group E
                                          bachelor's degree free/reduced
## 568
        female
                       group D
                                            master's degree free/reduced
## 569
          male
                                                high school free/reduced
                       group B
## 570
          male
                       group D
                                          bachelor's degree free/reduced
                                               some college
## 571
          male
                                                                  standard
                       group B
## 572
          male
                       group A
                                          bachelor's degree
                                                                  standard
## 573
        female
                       group C
                                                some college
                                                                  standard
## 574
        female
                                                high school free/reduced
                       group C
        female
## 575
                                                high school
                                                                  standard
                       group E
## 576
          male
                                         associate's degree free/reduced
                       group A
## 577
          male
                       group A
                                               some college
                                                                  standard
## 578
        female
                       group B
                                                high school
                                                                  standard
   579
        female
                                               some college free/reduced
                       group B
## 580
        female
                       group D
                                            master's degree
                                                                  standard
                                                                  standard
## 581
        female
                                           some high school
                       group D
## 582
        female
                       group E
                                           some high school
                                                                  standard
## 583
                                          bachelor's degree free/reduced
        female
                       group D
## 584
        female
                       group D
                                         associate's degree
                                                                  standard
## 585
        female
                       group D
                                                some college
                                                                  standard
  586
        female
                                                                  standard
                       group C
                                         associate's degree
## 587
        female
                       group A
                                                high school
                                                                  standard
## 588
        female
                       group C
                                          bachelor's degree free/reduced
## 589
        female
                       group C
                                                some college
                                                                  standard
```

```
## 590
        female
                                           some high school
                                                                  standard
                       group A
                                                some college free/reduced
## 591
          male
                       group C
## 592
          male
                       group A
                                           some high school
                                                                  standard
                                          bachelor's degree
## 593
          male
                                                                  standard
                       group E
## 594
        female
                       group E
                                                 high school
                                                                  standard
##
  595
        female
                                          bachelor's degree
                                                                  standard
                       group C
## 596
        female
                       group C
                                          bachelor's degree
                                                                  standard
## 597
          male
                       group B
                                                 high school free/reduced
## 598
          male
                       group A
                                           some high school
                                                                  standard
## 599
        female
                       group D
                                                 high school
                                                                  standard
## 600
        female
                       group D
                                           some high school
                                                                  standard
## 601
        female
                                            master's degree
                                                                  standard
                       group D
   602
        female
                       group C
                                                 high school
                                                                  standard
## 603
        female
                       group E
                                                some college
                                                                  standard
## 604
          male
                                                 high school free/reduced
                       group D
## 605
          male
                       group D
                                            master's degree free/reduced
## 606
          male
                       group C
                                           some high school
                                                                  standard
## 607
        female
                       group C
                                         associate's degree
                                                                  standard
## 608
        female
                                            master's degree free/reduced
                       group C
## 609
        female
                       group E
                                                some college
                                                                  standard
## 610
        female
                       group B
                                         associate's degree
                                                                  standard
## 611
          male
                                                some college free/reduced
                       group D
## 612
        female
                                                                  standard
                       group C
                                                some college
                                          bachelor's degree
## 613
          male
                                                                  standard
                       group C
## 614
        female
                       group C
                                         associate's degree
                                                                  standard
## 615
        female
                       group A
                                         associate's degree
                                                                  standard
## 616
        female
                       group C
                                                 high school
                                                                  standard
## 617
        female
                                          bachelor's degree
                                                                  standard
                       group E
## 618
                                          bachelor's degree
          male
                                                                  standard
                       group D
## 619
          male
                       group D
                                            master's degree
                                                                  standard
## 620
                                         associate's degree free/reduced
          male
                       group C
## 621
        female
                       group C
                                                 high school free/reduced
## 622
          male
                       group B
                                          bachelor's degree free/reduced
                                                 high school free/reduced
## 623
          male
                       group C
## 624
          male
                       group A
                                                some college
                                                                  standard
## 625
        female
                                          bachelor's degree free/reduced
                       group E
## 626
          male
                       group D
                                                some college
                                                                  standard
## 627
          male
                                         associate's degree free/reduced
                       group B
## 628
          male
                                         associate's degree
                                                                  standard
                       group D
## 629
          male
                                                some college free/reduced
                       group D
## 630
        female
                                           some high school
                                                                  standard
                       group C
## 631
          male
                       group D
                                                some college
                                                                  standard
## 632
          male
                       group B
                                                 high school
                                                                  standard
##
   633
        female
                                                                  standard
                       group B
                                          bachelor's degree
## 634
        female
                                                                  standard
                       group C
                                                 high school
                                                                  standard
## 635
          male
                                           some high school
                       group D
                       group A
## 636
          male
                                                 high school
                                                                  standard
## 637
                                                 high school free/reduced
        female
                       group B
                       group D
## 638
        female
                                           some high school
                                                                  standard
## 639
          male
                       group E
                                                some college
                                                                  standard
## 640
        female
                       group D
                                         associate's degree
                                                                  standard
## 641
          male
                       group D
                                                 high school
                                                                  standard
## 642
        female
                       group D
                                         associate's degree free/reduced
## 643
        female
                       group B
                                           some high school free/reduced
```

```
## 644
        female
                       group E
                                                 high school
                                                                  standard
## 645
          male
                                                high school
                                                                  standard
                       group B
## 646
        female
                       group B
                                          bachelor's degree
                                                                  standard
## 647
        female
                                         associate's degree
                       group D
                                                                  standard
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        female
                       group E
                                                 high school free/reduced
##
   649
        female
                       group B
                                                 high school
                                                                  standard
                                                some college
## 650
        female
                                                                  standard
                       group D
## 651
          male
                       group C
                                           some high school free/reduced
## 652
        female
                       group A
                                                 high school
                                                                  standard
##
  653
        female
                       group D
                                                some college
                                                                  standard
   654
        female
                       group A
                                         associate's degree
                                                                  standard
  655
        female
                                           some high school
##
                                                                  standard
                       group B
   656
        female
                       group B
                                                some college
                                                                  standard
## 657
          male
                       group C
                                         associate's degree free/reduced
## 658
          male
                                           some high school
                                                                  standard
                       group D
## 659
        female
                       group D
                                         associate's degree free/reduced
## 660
          male
                       group D
                                         associate's degree
                                                                  standard
## 661
          male
                       group C
                                                some college free/reduced
## 662
          male
                       group C
                                           some high school
                                                                  standard
## 663
        female
                       group D
                                                some college free/reduced
##
   664
        female
                       group C
                                                 high school
                                                                  standard
  665
          male
                       group D
                                         associate's degree
                                                                  standard
        female
## 666
                       group C
                                           some high school free/reduced
## 667
        female
                                                some college free/reduced
                       group C
        female
## 668
                                          bachelor's degree free/reduced
                       group B
## 669
          male
                       group C
                                                some college
                                                                  standard
## 670
          male
                       group D
                                         associate's degree
                                                                  standard
   671
        female
                                                 high school free/reduced
                       group C
                                         associate's degree free/reduced
  672
##
          male
                       group D
## 673
        female
                       group C
                                                some college
                                                                  standard
## 674
        female
                       group C
                                         associate's degree
                                                                  standard
   675
        female
                       group D
                                                 high school
                                                                  standard
   676
        female
                       group B
                                                some college
                                                                  standard
  677
        female
                       group E
                                                                  standard
                                                some college
## 678
        female
                       group C
                                           some high school
                                                                  standard
                       group D
  679
          male
                                         associate's degree free/reduced
## 680
          male
                       group D
                                                some college free/reduced
## 681
        female
                       group D
                                                 high school
                                                                  standard
## 682
          male
                       group B
                                                 high school
                                                                  standard
## 683
          male
                                                 high school
                                                                  standard
                       group B
                                           some high school free/reduced
## 684
        female
                       group C
## 685
          male
                       group B
                                                some college
                                                                  standard
   686
        female
                                            master's degree
                       group E
                                                                  standard
  687
          male
##
                       group E
                                                some college
                                                                  standard
## 688
          male
                       group D
                                         associate's degree free/reduced
## 689
                                                 high school free/reduced
          male
                       group A
## 690
          male
                       group E
                                                some college free/reduced
## 691
        female
                                         associate's degree
                                                                  standard
                       group C
## 692
        female
                       group E
                                         associate's degree free/reduced
## 693
        female
                                          bachelor's degree free/reduced
                       group C
                                         associate's degree
   694
        female
                       group D
                                                                  standard
## 695
        female
                       group C
                                           some high school
                                                                  standard
## 696
        female
                       group D
                                                some college free/reduced
## 697
        female
                       group C
                                         associate's degree
                                                                  standard
```

699 700	female	group group		aggagiata)a daggag	
700		9-0ap	ט	associate's degree	standard
100	male	group	С	high school	free/reduced
701	female	group	Ε	bachelor's degree	standard
702	female	group	В	some high school	standard
703	male	group	A	bachelor's degree	standard
704	female	group	D	some college	standard
705	female	group	В	_	
	male			bachelor's degree	
				high school	standard
				9	
				_	standard
				_	
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				9	standard
101	шате	group	ע	some nigh school	standard
	701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751	702 female 703 male 704 female 705 female 706 male 707 male 708 male 709 male 710 female 711 male 712 female 713 female 714 male 715 female 716 female 717 male 718 female 719 female 720 male 721 female 722 male 723 female 724 male 725 male 726 male 727 female 730 male 731 female 732 male 733 female 734 male 735 female 736 <th>702 female group 703 male group 704 female group 705 female group 706 male group 707 male group 708 male group 709 male group 710 female group 711 male group 712 female group 713 female group 714 male group 715 female group 716 female group 717 male group 718 female group 719 female group 720 male group 721 female group 722 male group 723 female group 724 male group 730 male g</th> <th>702 female group B 703 male group D 704 female group D 705 female group B 706 male group D 707 male group D 708 male group D 709 male group D 710 female group D 711 male group C 712 female group D 713 female group B 714 male group B 715 female group B 716 female group C 718 female group C 719 female group C 719 female group C 720 male group C 721 female group C 722 male group B 723 female group E 725 male group E</th> <th>702 female group B some high school 703 male group D some college 704 female group D some high school 705 female group B some high school 706 male group D high school 707 male group C some college 709 male group D high school 710 female group D associate's degree 711 male group E some college 712 female group D some college 713 female group D master's degree 713 female group D master's degree 715 female group D master's degree 715 female group B some high school 716 female group B associate's degree 715 female group C associate's degree 716 female group C associate's degree 717 male group C high school</th>	702 female group 703 male group 704 female group 705 female group 706 male group 707 male group 708 male group 709 male group 710 female group 711 male group 712 female group 713 female group 714 male group 715 female group 716 female group 717 male group 718 female group 719 female group 720 male group 721 female group 722 male group 723 female group 724 male group 730 male g	702 female group B 703 male group D 704 female group D 705 female group B 706 male group D 707 male group D 708 male group D 709 male group D 710 female group D 711 male group C 712 female group D 713 female group B 714 male group B 715 female group B 716 female group C 718 female group C 719 female group C 719 female group C 720 male group C 721 female group C 722 male group B 723 female group E 725 male group E	702 female group B some high school 703 male group D some college 704 female group D some high school 705 female group B some high school 706 male group D high school 707 male group C some college 709 male group D high school 710 female group D associate's degree 711 male group E some college 712 female group D some college 713 female group D master's degree 713 female group D master's degree 715 female group D master's degree 715 female group B some high school 716 female group B associate's degree 715 female group C associate's degree 716 female group C associate's degree 717 male group C high school

```
## 752
          male
                       group E
                                                some college
                                                                  standard
## 753
          male
                                            master's degree free/reduced
                       group C
                                            some high school
                                                                  standard
## 754
        female
                       group C
  755
##
          male
                       group C
                                         associate's degree free/reduced
   756
        female
                       group E
                                         associate's degree
                                                                  standard
##
  757
          male
                                                some college
                                                                  standard
                       group D
  758
          male
                       group E
                                          bachelor's degree free/reduced
## 759
                       group D
                                                some college free/reduced
        female
##
  760
          male
                       group B
                                                some college
                                                                  standard
##
  761
        female
                                                 high school free/reduced
                       group C
   762
        female
                       group D
                                            some high school
                                                                  standard
## 763
          male
                                            some high school
                                                                  standard
                       group D
##
   764
        female
                       group B
                                                 high school
                                                                  standard
  765
##
          male
                       group D
                                                some college
                                                                  standard
##
  766
        female
                                                                  standard
                       group B
                                                 high school
## 767
        female
                       group C
                                                 high school
                                                                  standard
##
  768
                                                                  standard
          male
                       group B
                                                 high school
##
  769
        female
                       group D
                                            some high school
                                                                  standard
##
  770
          male
                                                some college free/reduced
                       group A
## 771
          male
                       group B
                                                 high school
                                                                  standard
                                          bachelor's degree
##
  772
          male
                       group D
                                                                  standard
## 773
        female
                       group B
                                           some high school free/reduced
## 774
        female
                                          bachelor's degree free/reduced
                       group C
## 775
          male
                                                some college
                       group B
                                                                  standard
## 776
        female
                       group B
                                            some high school free/reduced
  777
        female
                       group B
                                                 high school
                                                                  standard
##
  778
        female
                       group C
                                                some college free/reduced
   779
        female
                       group A
                                                some college
                                                                  standard
  780
##
          male
                                         associate's degree
                                                                  standard
                       group E
  781
        female
                       group D
                                         associate's degree free/reduced
## 782
        female
                       group B
                                            master's degree
                                                                  standard
   783
        female
                       group B
                                                 high school free/reduced
  784
##
        female
                       group C
                                         associate's degree
                                                                  standard
                                          bachelor's degree
##
  785
          male
                       group C
                                                                  standard
  786
##
        female
                       group B
                                            some high school
                                                                  standard
##
  787
        female
                                            some high school free/reduced
                       group E
## 788
        female
                       group B
                                                some college
                                                                  standard
## 789
          male
                       group C
                                         associate's degree free/reduced
## 790
        female
                                            master's degree free/reduced
                       group C
  791
        female
##
                                                 high school
                                                                  standard
                       group B
   792
        female
                                                some college free/reduced
                       group D
## 793
          male
                       group D
                                                 high school free/reduced
  794
          male
                       group E
                                            some high school
                                                                  standard
   795
        female
                       group B
##
                                                 high school
                                                                  standard
   796
        female
                       group E
                                         associate's degree free/reduced
## 797
          male
                                                                  standard
                       group D
                                                 high school
                       group E
  798
        female
                                         associate's degree free/reduced
## 799
          male
                       group E
                                                some college
                                                                  standard
## 800
        female
                       group C
                                         associate's degree
                                                                  standard
## 801
          male
                       group C
                                            some high school
                                                                  standard
##
   802
          male
                                                                  standard
                       group C
                                            some high school
## 803
        female
                       group E
                                         associate's degree
                                                                  standard
## 804
        female
                       group B
                                                some college
                                                                  standard
## 805
        female
                       group C
                                                some college
                                                                  standard
```

```
## 806
          male
                                                some college free/reduced
                       group A
                                                some college free/reduced
## 807
        female
                       group D
## 808
                       group E
                                                 high school free/reduced
        female
## 809
          male
                       group C
                                                 high school
                                                                  standard
## 810
          male
                       group B
                                          bachelor's degree
                                                                  standard
## 811
          male
                                            some high school
                       group A
                                                                  standard
## 812
          male
                                                 high school free/reduced
                       group A
## 813
        female
                       group C
                                            master's degree
                                                                  standard
## 814
          male
                       group E
                                            some high school
                                                                  standard
## 815
        female
                       group C
                                                 high school
                                                                  standard
## 816
          male
                       group B
                                            some high school
                                                                  standard
## 817
        female
                                           bachelor's degree
                                                                  standard
                       group A
  818
          male
                       group D
                                          bachelor's degree free/reduced
## 819
        female
                                                 high school free/reduced
                       group B
## 820
        female
                       group C
                                            some high school
                                                                  standard
## 821
        female
                       group A
                                            some high school
                                                                  standard
  822
        female
                                           bachelor's degree free/reduced
                       group D
## 823
          male
                       group E
                                                some college free/reduced
## 824
        female
                                                 high school free/reduced
                       group B
## 825
                                            some high school free/reduced
        female
                       group C
##
  826
          male
                       group C
                                                 high school
                                                                  standard
## 827
        female
                       group C
                                         associate's degree free/reduced
## 828
        female
                       group C
                                            some high school
                                                                  standard
## 829
        female
                                            some high school free/reduced
                       group D
## 830
          male
                       group B
                                            some high school
                                                                  standard
   831
        female
                       group A
                                                some college free/reduced
## 832
        female
                       group C
                                          bachelor's degree free/reduced
   833
          male
                       group A
                                          bachelor's degree
                                                                  standard
##
  834
        female
                                                                  standard
                       group B
                                                 high school
   835
          male
                       group B
                                                some college
                                                                  standard
## 836
        female
                       group C
                                                 high school
                                                                  standard
##
   837
          male
                       group E
                                                 high school
                                                                  standard
##
  838
        female
                       group A
                                                 high school
                                                                  standard
## 839
          male
                       group B
                                         associate's degree free/reduced
## 840
        female
                       group C
                                         associate's degree
                                                                  standard
                                                 high school free/reduced
##
  841
        female
                       group D
## 842
          male
                       group C
                                            some high school
                                                                  standard
## 843
        female
                       group B
                                                 high school free/reduced
## 844
          male
                                                some college free/reduced
                       group B
## 845
        female
                                            some high school free/reduced
                       group D
                                            master's degree
## 846
          male
                       group E
                                                                  standard
## 847
          male
                       group C
                                            master's degree
                                                                  standard
## 848
          male
                       group D
                                                 high school
                                                                  standard
  849
        female
                       group C
                                                                  standard
##
                                                 high school
## 850
          male
                       group D
                                         associate's degree
                                                                  standard
## 851
          male
                                            master's degree
                                                                  standard
                       group C
                       group A
## 852
        female
                                                 high school
                                                                  standard
## 853
        female
                       group E
                                                some college
                                                                  standard
## 854
          male
                       group E
                                            some high school
                                                                  standard
## 855
          male
                       group C
                                            some high school
                                                                  standard
##
   856
        female
                                          bachelor's degree
                       group B
                                                                  standard
## 857
          male
                       group B
                                                some college free/reduced
## 858
        female
                       group C
                                          bachelor's degree
                                                                  standard
## 859
          male
                       group B
                                                 high school
                                                                  standard
```

```
## 860
          male
                                         associate's degree free/reduced
                       group C
## 861
        female
                                         associate's degree
                                                                  standard
                       group C
        female
                       group E
## 862
                                            master's degree free/reduced
## 863
                                          bachelor's degree free/reduced
          male
                       group D
## 864
        female
                       group C
                                                some college
                                                                  standard
##
  865
          male
                                         associate's degree
                                                                  standard
                       group C
## 866
          male
                                               some college
                                                                  standard
                       group D
## 867
          male
                       group C
                                                high school free/reduced
## 868
          male
                       group B
                                         associate's degree
                                                                  standard
## 869
          male
                       group E
                                         associate's degree free/reduced
## 870
          male
                       group C
                                         associate's degree free/reduced
## 871
          male
                       group B
                                                high school
                                                                 standard
## 872
        female
                       group C
                                               some college
                                                                  standard
## 873
                                         associate's degree
          male
                       group B
                                                                  standard
## 874
          male
                                         associate's degree free/reduced
                       group E
## 875
        female
                       group C
                                          bachelor's degree free/reduced
## 876
          male
                                                some college free/reduced
                       group C
## 877
          male
                       group D
                                               some college
                                                                 standard
## 878
          male
                                           some high school
                                                                 standard
                       group C
## 879
        female
                       group D
                                           some high school
                                                                  standard
                                         associate's degree
##
  880
        female
                       group D
                                                                  standard
## 881
          male
                       group C
                                          bachelor's degree
                                                                  standard
## 882
        female
                                          bachelor's degree
                                                                  standard
                       group E
## 883
        female
                                                 high school free/reduced
                       group B
## 884
          male
                                          bachelor's degree free/reduced
                       group D
   885
        female
                       group E
                                         associate's degree
                                                                 standard
## 886
        female
                       group C
                                         associate's degree
                                                                  standard
   887
        female
                                         associate's degree
                       group E
                                                                  standard
## 888
          male
                       group C
                                                high school free/reduced
                                               some college free/reduced
  889
        female
                       group D
                                                high school free/reduced
## 890
          male
                       group D
   891
        female
                       group E
                                               some college
                                                                  standard
## 892
        female
                       group E
                                         associate's degree
                                                                  standard
## 893
        female
                       group A
                                            master's degree free/reduced
## 894
          male
                       group D
                                           some high school
                                                                  standard
##
   895
        female
                                         associate's degree
                                                                  standard
                       group E
## 896
        female
                       group E
                                           some high school free/reduced
## 897
          male
                       group B
                                                 high school free/reduced
## 898
        female
                       group B
                                           some high school free/reduced
## 899
          male
                                         associate's degree
                                                                 standard
                       group D
## 900
        female
                                           some high school
                                                                  standard
                       group D
## 901
          male
                       group D
                                            master's degree
                                                                  standard
## 902
        female
                                            master's degree
                       group C
                                                                  standard
##
   903
        female
                                                high school free/reduced
                       group A
## 904
        female
                                          bachelor's degree free/reduced
                       group D
## 905
        female
                                           some high school free/reduced
                       group D
                       group D
## 906
          male
                                                some college
                                                                  standard
## 907
          male
                                                                  standard
                       group B
                                                high school
## 908
        female
                       group D
                                               some college
                                                                  standard
## 909
        female
                       group C
                                          bachelor's degree free/reduced
## 910
          male
                                          bachelor's degree
                       group E
                                                                  standard
## 911
          male
                       group D
                                          bachelor's degree free/reduced
## 912
        female
                       group A
                                               some college
                                                                 standard
## 913
       female
                       group C
                                          bachelor's degree
                                                                  standard
```

```
## 914
        female
                       group C
                                          bachelor's degree free/reduced
## 915
        female
                                         associate's degree free/reduced
                       group B
## 916
        female
                       group E
                                                some college
                                                                  standard
## 917
          male
                                          bachelor's degree
                       group E
                                                                  standard
## 918
        female
                       group C
                                                 high school
                                                                  standard
## 919
        female
                                         associate's degree
                       group C
                                                                  standard
## 920
          male
                       group B
                                                                  standard
                                                some college
## 921
          male
                       group D
                                                 high school free/reduced
## 922
        female
                       group C
                                                 high school free/reduced
## 923
          male
                       group D
                                                 high school
                                                                  standard
## 924
        female
                       group B
                                         associate's degree free/reduced
## 925
          male
                       group D
                                                 high school free/reduced
## 926
          male
                       group E
                                           some high school
                                                                  standard
## 927
                                         associate's degree free/reduced
          male
                       group E
## 928
        female
                                                 high school free/reduced
                       group D
## 929
          male
                       group E
                                         associate's degree free/reduced
## 930
        female
                                           some high school free/reduced
                       group C
## 931
          male
                       group C
                                                some college free/reduced
## 932
          male
                                                some college free/reduced
                       group D
## 933
          male
                       group D
                                         associate's degree free/reduced
## 934
          male
                       group C
                                          bachelor's degree free/reduced
## 935
          male
                       group C
                                         associate's degree
                                                                  standard
## 936
          male
                                                some college free/reduced
                       group D
## 937
          male
                                         associate's degree
                                                                  standard
                       group A
## 938
        female
                                                 high school free/reduced
                       group E
## 939
          male
                       group D
                                                some college
                                                                  standard
## 940
          male
                       group D
                                           some high school
                                                                  standard
## 941
          male
                                            master's degree free/reduced
                       group C
## 942
        female
                                            master's degree
                                                                  standard
                       group D
## 943
          male
                       group C
                                                 high school
                                                                  standard
## 944
          male
                       group A
                                           some high school free/reduced
  945
        female
                       group B
                                                 high school
                                                                  standard
## 946
        female
                       group C
                                         associate's degree
                                                                  standard
## 947
          male
                       group B
                                                 high school
                                                                  standard
## 948
        female
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                                                some college free/reduced
  949
          male
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                       group B
## 950
        female
                       group E
                                                 high school free/reduced
## 951
          male
                       group E
                                                 high school
                                                                  standard
## 952
        female
                       group D
                                                some college
                                                                  standard
## 953
        female
                                           some high school free/reduced
                       group E
## 954
          male
                       group C
                                                high school
                                                                  standard
## 955
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                       group C
                                                some college
                                                                  standard
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          male
                                                                  standard
                       group E
                                         associate's degree
          male
                                                                  standard
##
   957
                       group C
                                                some college
## 958
        female
                                                                  standard
                       group D
                                            master's degree
## 959
        female
                                                                  standard
                       group D
                                                 high school
                       group C
  960
          male
                                                 high school
                                                                  standard
## 961
        female
                       group A
                                                some college
                                                                  standard
## 962
        female
                       group D
                                           some high school free/reduced
## 963
        female
                       group E
                                         associate's degree
                                                                  standard
                                           some high school free/reduced
## 964
        female
                       group C
## 965
          male
                       group D
                                                some college
                                                                  standard
## 966
        female
                       group D
                                                some college
                                                                  standard
## 967
          male
                       group A
                                           some high school
                                                                  standard
```

```
## 968
          male
                        group C
                                                 some college
                                                                   standard
## 969
        female
                                          associate's degree
                                                                   standard
                        group E
## 970
        female
                        group B
                                           bachelor's degree
                                                                   standard
## 971
        female
                                           bachelor's degree
                                                                   standard
                        group D
## 972
          male
                        group C
                                            some high school
                                                                   standard
## 973
        female
                       group A
                                                  high school free/reduced
## 974
        female
                                                 some college free/reduced
                       group D
## 975
        female
                        group A
                                                 some college
                                                                   standard
## 976
        female
                        group C
                                                 some college
                                                                   standard
## 977
          male
                                                some college free/reduced
                        group B
## 978
          male
                        group C
                                          associate's degree
                                                                   standard
## 979
          male
                        group D
                                                  high school
                                                                   standard
   980
        female
                        group C
                                          associate's degree
                                                                   standard
## 981
        female
                        group B
                                                  high school free/reduced
## 982
          male
                                            some high school
                                                                   standard
                       group D
## 983
          male
                        group B
                                            some high school
                                                                   standard
## 984
        female
                                                                   standard
                        group A
                                                 some college
## 985
        female
                        group C
                                            some high school
                                                                   standard
## 986
          male
                       group A
                                                  high school
                                                                   standard
## 987
        female
                        group C
                                          associate's degree
                                                                   standard
##
   988
          male
                       group E
                                            some high school
                                                                   standard
## 989
        female
                       group A
                                            some high school free/reduced
## 990
        female
                                                 some college free/reduced
                       group D
## 991
          male
                                                  high school free/reduced
                        group E
## 992
        female
                                            some high school
                        group B
                                                                   standard
## 993
        female
                        group D
                                          associate's degree free/reduced
## 994
        female
                        group D
                                           bachelor's degree free/reduced
  995
          male
                        group A
                                                  high school
                                                                   standard
        female
## 996
                        group E
                                             master's degree
                                                                   standard
  997
          male
                        group C
                                                  high school free/reduced
## 998
                                                  high school free/reduced
        female
                        group C
   999
        female
                        group D
                                                 some college
                                                                   standard
   1000 female
##
                        group D
                                                 some college free/reduced
##
        test.preparation.course math.score reading.score writing.score
## 1
                                                          72
                             none
                                           72
                                                                         74
##
                        completed
                                           69
                                                          90
                                                                         88
## 3
                             none
                                           90
                                                          95
                                                                         93
## 4
                             none
                                           47
                                                          57
                                                                          44
## 5
                             none
                                           76
                                                          78
                                                                          75
##
  6
                                                          83
                                           71
                                                                         78
                             none
## 7
                        completed
                                           88
                                                          95
                                                                         92
## 8
                                           40
                                                          43
                                                                         39
                             none
## 9
                                                          64
                                                                          67
                        completed
                                           64
## 10
                                           38
                                                          60
                                                                          50
                             none
## 11
                                           58
                                                          54
                                                                         52
                             none
## 12
                                           40
                                                          52
                                                                          43
                             none
## 13
                                                          81
                                                                          73
                             none
                                           65
## 14
                                           78
                                                          72
                                                                         70
                        completed
## 15
                             none
                                           50
                                                          53
                                                                         58
## 16
                                                          75
                                                                         78
                             none
                                           69
## 17
                                           88
                                                          89
                                                                         86
                             none
## 18
                                                          32
                             none
                                           18
                                                                         28
## 19
                       completed
                                           46
                                                          42
                                                                          46
## 20
                             none
                                           54
                                                          58
                                                                          61
```

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##	25	completed	74	71	80
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	27	none	69	54	55
	28	none	67	69	75
	29	none	70	70	65
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##	37	none	74	81	83
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##		none	57	56	57
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##		none	58	73	68
##		none	53	58	65
	44	completed	59	65	66
##		none	50	56	54
##		none	65	54	57
	47	completed	55	65	62
	48	none	66	71	76
##		completed	57	74	76
	50	completed	82	84	82
	51	none	53	55	48
## ##	52	completed	77	69	68
	54	none	53	44	42
##		none	88 71	78 84	75 87
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##		completed	82	85	86
##		none	52	55	49
##		completed	58	59	58
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	61	completed	79	74	72
	62	none	39	39	34
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	64	none	69	80	71
	65	none	59	58	59
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##	68	none	60	72	74
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	70	none	39	64	57
	71	completed	58	63	73
	72	completed	63	55	63
	73	none	41	51	48
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##	79	completed	61	74	72
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##	94	completed	43	45	50
##	95	none	79	86	92
##	96	completed	78	81	82
##	97	completed	65	66	62
##	98	completed	63	72	70
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	126	none	87	95	86
	127	none	72	68	67
	128	completed	65	77	74
		*			

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133	completed	87	74	70
134	completed	75	81	84
135	completed	74	79	75
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157	completed	66	74	78
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161	completed	82	78	74
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168	completed	58	76	78
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##	997	none	62	55	55
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##	999	completed	68	78	77
##	1000	none	77	86	86

remove missing values in dataset

na.omit(SP)

##		gender	race.ethnicity	parental.level.of.education	lunch
##	1	female	group B	bachelor's degree	standard
##	2	female	group C	some college	standard
##	3	female	group B	master's degree	standard
##	4	male	group A	associate's degree	free/reduced
##	5	male	group C	some college	standard
##	6	female	group B	associate's degree	standard
##	7	female	group B	some college	standard
##	8	male	group B	some college	free/reduced
##	9	male	group D	high school	free/reduced
##	10	female	group B	high school	free/reduced
##	11	male	group C	associate's degree	standard
##	12	male	group D	associate's degree	standard
##	13	female	group B	high school	standard
##	14	male	group A	some college	standard
##	15	female	group A	master's degree	standard
##	16	female	group C	some high school	standard
##	17	male	group C	high school	standard
##	18	female	group B	some high school	free/reduced
##	19	male	group C	master's degree	free/reduced
##	20	female	group C	associate's degree	free/reduced
##	21	male	group D	high school	standard
##	22	female	group B	some college	free/reduced
##	23	male	group D	some college	standard
##	24	female	group C	some high school	standard
##	25	male	group D	bachelor's degree	free/reduced
##	26	male	group A	master's degree	free/reduced
##	27	male	group B	some college	standard
##	28	female	group C	bachelor's degree	standard
##	29	male	group C	high school	standard
##	30	female	group D	master's degree	standard
##	31	female	group D	some college	standard
##	32	female	group B	some college	standard
##	33	female	group E	master's degree	free/reduced
##	34	male	group D	some college	standard
##	35	male	group E	some college	standard
##	36	male	group E	associate's degree	standard
##	37	female	group D	associate's degree	standard
##	38	female	group D	some high school	
##	39	female	group D	associate's degree	free/reduced

```
## 40
          male
                                         associate's degree free/reduced
                       group B
## 41
          male
                                         associate's degree free/reduced
                       group C
## 42
        female
                       group C
                                         associate's degree
                                                                  standard
##
  43
        female
                                                                  standard
                       group B
                                         associate's degree
##
  44
          male
                       group B
                                                some college free/reduced
##
  45
        female
                       group E
                                         associate's degree free/reduced
## 46
          male
                                         associate's degree
                                                                  standard
                       group B
## 47
        female
                       group A
                                         associate's degree
                                                                  standard
##
  48
        female
                       group C
                                                 high school
                                                                  standard
##
   49
        female
                       group D
                                         associate's degree free/reduced
## 50
          male
                       group C
                                                 high school
                                                                  standard
## 51
          male
                       group E
                                                                  standard
                                                some college
## 52
          male
                       group E
                                         associate's degree free/reduced
## 53
                       group C
          male
                                                some college
                                                                  standard
## 54
          male
                       group D
                                                                  standard
                                                 high school
## 55
        female
                       group C
                                            some high school free/reduced
##
   56
        female
                                                 high school free/reduced
                       group C
## 57
        female
                       group E
                                         associate's degree
                                                                  standard
##
  58
          male
                                         associate's degree
                                                                  standard
                       group D
## 59
          male
                       group D
                                                some college
                                                                  standard
##
   60
        female
                       group C
                                            some high school free/reduced
## 61
          male
                       group E
                                          bachelor's degree free/reduced
## 62
          male
                                            some high school free/reduced
                       group A
## 63
          male
                                         associate's degree free/reduced
                       group A
## 64
        female
                       group C
                                         associate's degree
                                                                  standard
##
   65
        female
                       group D
                                           some high school
                                                                  standard
## 66
          male
                       group B
                                            some high school
                                                                  standard
   67
                                            some high school free/reduced
##
          male
                       group D
## 68
        female
                                                some college
                       group C
                                                                  standard
   69
##
          male
                       group B
                                         associate's degree free/reduced
## 70
        female
                       group C
                                         associate's degree
                                                                  standard
##
   71
        female
                       group D
                                                some college free/reduced
##
  72
          male
                       group D
                                                some college
                                                                  standard
## 73
        female
                       group A
                                         associate's degree free/reduced
## 74
          male
                       group C
                                            some high school free/reduced
##
  75
          male
                                            some high school
                       group C
                                                                  standard
## 76
          male
                       group B
                                         associate's degree free/reduced
## 77
          male
                       group E
                                           some high school
                                                                  standard
## 78
          male
                                          bachelor's degree
                                                                  standard
                       group A
        female
## 79
                                           some high school
                                                                  standard
                       group D
## 80
        female
                       group E
                                            master's degree
                                                                  standard
## 81
        female
                       group B
                                         associate's degree
                                                                  standard
## 82
          male
                       group B
                                                 high school free/reduced
## 83
          male
                       group A
                                                some college free/reduced
## 84
          male
                       group E
                                         associate's degree
                                                                  standard
## 85
          male
                                                 high school free/reduced
                       group D
## 86
                                                some college
        female
                       group C
                                                                  standard
## 87
        female
                       group C
                                                some college free/reduced
##
  88
        female
                       group D
                                         associate's degree
                                                                  standard
## 89
        female
                       group A
                                                some college
                                                                  standard
##
   90
        female
                                                                  standard
                       group D
                                            some high school
## 91
        female
                       group C
                                          bachelor's degree
                                                                  standard
## 92
          male
                       group C
                                                 high school free/reduced
## 93
          male
                       group C
                                                 high school
                                                                  standard
```

```
## 94
          male
                       group C
                                         associate's degree free/reduced
## 95
        female
                                                some college
                                                                  standard
                       group B
## 96
                                         associate's degree free/reduced
          male
                       group C
## 97
          male
                       group B
                                            some high school
                                                                  standard
## 98
        female
                       group E
                                                some college
                                                                  standard
##
  99
        female
                       group D
                                                some college free/reduced
## 100
        female
                                          bachelor's degree
                                                                  standard
                       group D
## 101
          male
                       group B
                                                some college
                                                                  standard
## 102
          male
                       group D
                                          bachelor's degree
                                                                  standard
## 103
        female
                       group D
                                         associate's degree
                                                                  standard
## 104
          male
                       group B
                                                 high school
                                                                  standard
## 105
          male
                       group C
                                                                  standard
                                                some college
## 106
        female
                       group C
                                                some college
                                                                  standard
## 107
                       group D
                                             master's degree
                                                                  standard
        female
                                         associate's degree
## 108
          male
                                                                  standard
                       group E
## 109
        female
                       group B
                                         associate's degree free/reduced
## 110
        female
                       group B
                                            some high school
                                                                  standard
## 111
        female
                       group D
                                         associate's degree free/reduced
## 112
          male
                                                                  standard
                       group C
                                                 high school
## 113
          male
                       group A
                                          associate's degree
                                                                  standard
## 114
        female
                       group D
                                                some college
                                                                  standard
## 115
        female
                       group E
                                           bachelor's degree
                                                                  standard
## 116
          male
                       group C
                                                                  standard
                                                 high school
## 117
        female
                                           bachelor's degree free/reduced
                       group B
        female
## 118
                       group D
                                          bachelor's degree
                                                                  standard
## 119
        female
                       group D
                                           some high school
                                                                  standard
## 120
        female
                       group C
                                                some college
                                                                  standard
## 121
        female
                                                                  standard
                       group C
                                          bachelor's degree
## 122
          male
                                         associate's degree
                                                                  standard
                       group B
## 123
        female
                       group C
                                                some college
                                                                  standard
## 124
                                                 high school free/reduced
          male
                       group D
## 125
          male
                       group E
                                                some college
                                                                  standard
## 126
        female
                       group B
                                                 high school
                                                                  standard
## 127
          male
                       group B
                                            some high school
                                                                  standard
## 128
          male
                       group D
                                                some college
                                                                  standard
                                             master's degree
## 129
          male
                                                                  standard
                       group D
## 130
        female
                       group A
                                           bachelor's degree
                                                                  standard
## 131
          male
                       group D
                                             master's degree
                                                                  standard
## 132
          male
                       group C
                                            some high school free/reduced
## 133
          male
                                                some college free/reduced
                       group E
## 134
        female
                                                some college
                                                                  standard
                       group C
## 135
          male
                       group D
                                          bachelor's degree free/reduced
## 136
          male
                       group C
                                          bachelor's degree
                                                                  standard
## 137
          male
                                                                  standard
                       group B
                                            some high school
## 138
          male
                       group E
                                                 high school
                                                                  standard
## 139
        female
                       group C
                                         associate's degree
                                                                  standard
## 140
          male
                       group D
                                                some college
                                                                  standard
## 141
        female
                       group D
                                            some high school
                                                                  standard
                                                some college free/reduced
## 142
        female
                       group C
## 143
                                                some college free/reduced
        female
                       group E
## 144
          male
                                                                  standard
                       group A
                                                 high school
## 145
          male
                       group D
                                                some college
                                                                  standard
## 146
        female
                       group C
                                                some college free/reduced
## 147
          male
                       group B
                                            some high school
                                                                  standard
```

```
## 148
          male
                                         associate's degree free/reduced
                       group C
## 149
        female
                                          bachelor's degree
                                                                  standard
                       group D
## 150
          male
                       group E
                                         associate's degree free/reduced
## 151
          male
                                           some high school
                                                                  standard
                       group A
## 152
          male
                       group A
                                          bachelor's degree
                                                                  standard
## 153
        female
                                         associate's degree
                                                                  standard
                       group B
## 154
          male
                                          bachelor's degree
                                                                  standard
                       group D
## 155
          male
                       group D
                                           some high school
                                                                  standard
## 156
        female
                       group C
                                                some college
                                                                  standard
## 157
        female
                       group E
                                                high school free/reduced
                                               some college free/reduced
## 158
          male
                       group B
## 159
        female
                       group B
                                         associate's degree
                                                                  standard
   160
          male
                       group D
                                         associate's degree free/reduced
## 161
                                         associate's degree free/reduced
          male
                       group B
## 162
        female
                                                some college free/reduced
                       group E
## 163
          male
                       group B
                                            master's degree free/reduced
## 164
          male
                       group C
                                                high school
                                                                  standard
## 165
        female
                       group E
                                            master's degree
                                                                  standard
## 166
        female
                                          bachelor's degree
                                                                 standard
                       group C
## 167
          male
                       group C
                                                high school free/reduced
                                            master's degree free/reduced
   168
        female
                       group B
## 169
        female
                       group B
                                                high school
                                                                  standard
## 170
        female
                                                some college free/reduced
                       group C
## 171
          male
                                                                  standard
                       group A
                                                high school
## 172
          male
                                                                  standard
                       group E
                                           some high school
## 173
        female
                       group D
                                                some college
                                                                  standard
## 174
        female
                       group C
                                         associate's degree
                                                                  standard
## 175
        female
                                          bachelor's degree free/reduced
                       group C
## 176
        female
                       group C
                                            master's degree
                                                                  standard
## 177
        female
                       group B
                                                high school free/reduced
## 178
        female
                       group C
                                         associate's degree
                                                                  standard
## 179
        female
                       group B
                                            master's degree free/reduced
## 180
        female
                       group D
                                           some high school
                                                                  standard
## 181
          male
                       group C
                                            master's degree free/reduced
## 182
        female
                       group C
                                                some college free/reduced
   183
        female
                                                high school
                       group E
                                                                 standard
## 184
        female
                       group D
                                         associate's degree
                                                                  standard
## 185
          male
                       group C
                                           some high school free/reduced
## 186
          male
                       group C
                                         associate's degree free/reduced
## 187
          male
                                                high school
                                                                  standard
                       group E
## 188
          male
                       group D
                                           some high school
                                                                  standard
## 189
          male
                       group B
                                           some high school free/reduced
## 190
        female
                                          bachelor's degree
                       group C
                                                                  standard
## 191
        female
                                                                  standard
                       group E
                                         associate's degree
## 192
          male
                                                                  standard
                       group D
                                                some college
## 193
        female
                                           some high school
                                                                  standard
                       group B
                       group D
## 194
          male
                                                some college
                                                                  standard
## 195
        female
                       group C
                                            master's degree
                                                                  standard
## 196
          male
                       group D
                                         associate's degree
                                                                  standard
## 197
          male
                       group C
                                           some high school free/reduced
## 198
          male
                                                high school free/reduced
                       group E
## 199
        female
                                                some college free/reduced
                       group B
## 200
        female
                       group B
                                          bachelor's degree free/reduced
## 201
        female
                       group C
                                         associate's degree
                                                                  standard
```

```
## 202
        female
                                                some college free/reduced
                       group D
## 203
          male
                                                                  standard
                       group C
                                          associate's degree
## 204
        female
                       group B
                                          associate's degree
                                                                  standard
## 205
          male
                       group C
                                                some college
                                                                  standard
## 206
          male
                       group D
                                            some high school
                                                                  standard
## 207
          male
                                          bachelor's degree
                       group E
                                                                  standard
## 208
          male
                       group E
                                                 high school
                                                                  standard
## 209
        female
                       group B
                                                some college free/reduced
## 210
        female
                       group B
                                                some college free/reduced
## 211
          male
                       group D
                                            some high school free/reduced
## 212
          male
                       group C
                                                some college free/reduced
## 213
        female
                       group C
                                                 high school free/reduced
## 214
          male
                       group C
                                          associate's degree free/reduced
## 215
                                                 high school
          male
                       group E
                                                                  standard
## 216
          male
                                            some high school
                                                                  standard
                       group B
## 217
        female
                       group E
                                          associate's degree free/reduced
## 218
        female
                       group C
                                                 high school free/reduced
## 219
          male
                       group B
                                                 high school free/reduced
                                                                  standard
## 220
          male
                       group B
                                            some high school
## 221
        female
                       group D
                                                 high school
                                                                  standard
## 222
          male
                       group B
                                          associate's degree
                                                                  standard
## 223
        female
                                            some high school free/reduced
                       group C
## 224
          male
                                            some high school
                                                                  standard
                       group D
## 225
        female
                                          associate's degree
                                                                  standard
                       group B
## 226
        female
                       group E
                                             master's degree free/reduced
## 227
        female
                       group C
                                                some college
                                                                  standard
## 228
          male
                       group D
                                                 high school
                                                                  standard
## 229
          male
                       group A
                                            some high school free/reduced
## 230
        female
                                                                  standard
                       group C
                                                some college
## 231
          male
                       group D
                                                some college
                                                                  standard
## 232
          male
                       group C
                                          associate's degree
                                                                  standard
  233
        female
                       group B
                                          bachelor's degree
                                                                  standard
## 234
          male
                       group E
                                            some high school
                                                                  standard
## 235
          male
                                                                  standard
                       group C
                                           bachelor's degree
## 236
          male
                       group D
                                          associate's degree
                                                                  standard
## 237
          male
                                          bachelor's degree free/reduced
                       group D
## 238
        female
                       group D
                                            some high school
                                                                  standard
## 239
          male
                                                some college
                                                                  standard
                       group B
## 240
          male
                                          associate's degree
                                                                  standard
                       group C
## 241
          male
                                                 high school free/reduced
                       group D
                                          bachelor's degree
## 242
        female
                                                                  standard
                       group E
## 243
        female
                       group D
                                                 high school
                                                                  standard
## 244
          male
                                                                  standard
                       group E
                                                some college
## 245
          male
                                                                  standard
                       group D
                                            some high school
## 246
          male
                                                                  standard
                       group C
                                          associate's degree
## 247
          male
                                          associate's degree
                                                                  standard
                       group E
                       group B
## 248
        female
                                                 high school
                                                                  standard
## 249
        female
                       group B
                                                 high school
                                                                  standard
## 250
                       group C
          male
                                                 high school
                                                                  standard
## 251
          male
                       group A
                                            some high school
                                                                  standard
   252
        female
                       group D
                                                some college free/reduced
        female
## 253
                       group B
                                            some high school
                                                                  standard
## 254
          male
                       group D
                                            master's degree
                                                                  standard
## 255
          male
                       group D
                                                 high school
                                                                  standard
```

```
## 256
        female
                                                some college
                                                                  standard
                       group E
## 257
        female
                                         associate's degree free/reduced
                       group C
## 258
                       group C
          male
                                         associate's degree
                                                                  standard
## 259
        female
                       group B
                                                some college
                                                                  standard
  260
        female
                       group C
                                            master's degree free/reduced
##
  261
        female
                                           some high school free/reduced
                       group C
## 262
          male
                                                some college
                       group C
                                                                  standard
## 263
        female
                       group C
                                           some high school free/reduced
  264
        female
                       group E
                                                 high school
                                                                  standard
##
  265
          male
                       group D
                                                 high school
                                                                  standard
  266
          male
                       group D
                                           some high school free/reduced
## 267
        female
                       group C
                                                                  standard
                                          bachelor's degree
   268
        female
                       group D
                                                 high school
                                                                  standard
##
   269
        female
                       group D
                                          associate's degree
                                                                  standard
## 270
        female
                                                some college free/reduced
                       group E
## 271
          male
                       group C
                                          bachelor's degree
                                                                  standard
## 272
          male
                       group C
                                                some college
                                                                  standard
## 273
        female
                       group D
                                         associate's degree free/reduced
                                                                  standard
## 274
        female
                       group D
                                                some college
## 275
          male
                       group B
                                                some college
                                                                  standard
##
  276
          male
                       group C
                                          bachelor's degree
                                                                  standard
## 277
        female
                       group C
                                           some high school
                                                                  standard
## 278
        female
                                                 high school
                                                                  standard
                       group E
## 279
        female
                                           some high school free/reduced
                       group C
## 280
                                          bachelor's degree free/reduced
                       group B
          male
## 281
          male
                       group D
                                                 high school
                                                                  standard
## 282
          male
                       group D
                                                 high school
                                                                  standard
   283
        female
                                          bachelor's degree free/reduced
                       group D
  284
                                                some college free/reduced
##
        female
                       group D
## 285
        female
                       group B
                                           some high school
                                                                  standard
## 286
          male
                       group B
                                         associate's degree
                                                                  standard
## 287
          male
                       group E
                                         associate's degree
                                                                  standard
## 288
        female
                       group B
                                           some high school
                                                                  standard
## 289
          male
                       group B
                                          bachelor's degree free/reduced
## 290
          male
                       group E
                                           some high school
                                                                  standard
## 291
          male
                                                                  standard
                       group C
                                         associate's degree
## 292
          male
                       group D
                                           some high school
                                                                  standard
## 293
          male
                       group C
                                           some high school
                                                                  standard
## 294
        female
                                          bachelor's degree
                                                                  standard
                       group E
## 295
          male
                                                 high school free/reduced
                       group D
## 296
          male
                                         associate's degree free/reduced
                       group B
## 297
          male
                       group A
                                           some high school
                                                                  standard
## 298
          male
                                         associate's degree
                       group E
                                                                  standard
## 299
          male
                       group C
                                                 high school free/reduced
## 300
          male
                                         associate's degree free/reduced
                       group D
## 301
                                                some college free/reduced
          male
                       group A
## 302
          male
                       group D
                                           some high school free/reduced
## 303
        female
                       group C
                                         associate's degree
                                                                  standard
## 304
          male
                       group B
                                         associate's degree
                                                                  standard
## 305
        female
                       group C
                                         associate's degree
                                                                  standard
##
  306
          male
                       group A
                                                some college
                                                                  standard
## 307
          male
                       group E
                                                some college
                                                                  standard
                                           some high school
## 308
          male
                       group C
                                                                  standard
## 309
        female
                       group B
                                         associate's degree free/reduced
```

```
## 310
        female
                                                 high school free/reduced
                       group D
                                         associate's degree
## 311
        female
                                                                  standard
                       group B
## 312
                       group B
          male
                                          bachelor's degree
                                                                  standard
                                          bachelor's degree
## 313
          male
                       group D
                                                                  standard
## 314
        female
                       group C
                                         associate's degree free/reduced
        female
##
  315
                                          bachelor's degree
                       group C
                                                                  standard
## 316
          male
                                                                  standard
                       group C
                                                 high school
## 317
                       group D
        female
                                            master's degree
                                                                  standard
## 318
          male
                       group C
                                         associate's degree
                                                                  standard
## 319
          male
                       group B
                                          bachelor's degree
                                                                  standard
  320
        female
                       group D
                                         associate's degree free/reduced
## 321
                                                 high school free/reduced
        female
                       group C
   322
        female
                       group E
                                                 high school
                                                                  standard
##
  323
        female
                                                some college
                       group C
                                                                  standard
   324
        female
                       group C
                                            some high school free/reduced
## 325
        female
                       group C
                                                 high school free/reduced
  326
        female
                       group C
                                                some college
                                                                  standard
  327
##
          male
                       group C
                                                some college
                                                                  standard
## 328
          male
                                                some college free/reduced
                       group A
## 329
          male
                       group C
                                         associate's degree
                                                                  standard
  330
        female
                       group B
                                            some high school
                                                                  standard
## 331
          male
                       group C
                                                 high school
                                                                  standard
## 332
          male
                       group C
                                         associate's degree
                                                                  standard
                                         associate's degree
## 333
          male
                                                                  standard
                       group E
## 334
          male
                       group B
                                         associate's degree
                                                                  standard
   335
        female
                       group C
                                          bachelor's degree
                                                                  standard
##
  336
        female
                       group B
                                                some college free/reduced
   337
          male
                       group D
                                            some high school
                                                                  standard
                                         associate's degree
##
  338
          male
                                                                  standard
                       group C
   339
        female
                       group B
                                            some high school free/reduced
        female
## 340
                       group D
                                            some high school free/reduced
##
   341
          male
                       group C
                                                 high school free/reduced
   342
##
        female
                       group C
                                                 high school
                                                                  standard
##
  343
        female
                       group B
                                                 high school
                                                                  standard
  344
##
          male
                       group D
                                         associate's degree
                                                                  standard
##
  345
          male
                       group D
                                                some college
                                                                  standard
## 346
        female
                       group C
                                                 high school
                                                                  standard
## 347
          male
                       group B
                                                some college
                                                                  standard
## 348
        female
                       group C
                                          bachelor's degree
                                                                  standard
## 349
          male
                                                 high school free/reduced
                       group D
  350
          male
                                         associate's degree
                                                                  standard
                       group E
## 351
        female
                       group B
                                          bachelor's degree
                                                                  standard
   352
          male
                       group E
                                                some college
                                                                  standard
   353
        female
                                                                  standard
##
                       group C
                                                some college
   354
        female
                       group C
                                         associate's degree
                                                                  standard
## 355
        female
                       group C
                                                some college
                                                                  standard
   356
        female
                       group B
                                          bachelor's degree
                                                                  standard
## 357
                                         associate's degree
          male
                       group A
                                                                  standard
  358
        female
                       group C
                                                some college free/reduced
  359
                                                some college free/reduced
          male
                       group D
   360
        female
                                                                  standard
                       group D
                                                some college
## 361
        female
                       group B
                                                 high school
                                                                  standard
## 362
          male
                       group B
                                            some high school
                                                                  standard
## 363
        female
                       group C
                                                some college
                                                                  standard
```

```
## 364
        female
                                            some high school free/reduced
                       group D
## 365
          male
                       group C
                                                some college
                                                                  standard
## 366
          male
                       group A
                                           bachelor's degree free/reduced
## 367
          male
                       group C
                                                 high school
                                                                  standard
   368
          male
                       group C
                                           bachelor's degree free/reduced
   369
        female
                                            some high school free/reduced
##
                       group A
## 370
        female
                                            some high school
                       group D
                                                                  standard
## 371
          male
                       group E
                                                some college
                                                                  standard
##
  372
        female
                       group C
                                                some college free/reduced
## 373
          male
                       group D
                                            some high school
                                                                  standard
   374
        female
                       group D
                                                some college
                                                                  standard
## 375
                                           bachelor's degree
        female
                                                                  standard
                       group D
   376
          male
                       group E
                                          associate's degree free/reduced
##
   377
        female
                       group D
                                            some high school
                                                                  standard
   378
        female
                                             master's degree free/reduced
                       group D
## 379
        female
                                            some high school
                                                                  standard
                       group A
   380
          male
                                          bachelor's degree
                                                                  standard
                       group A
   381
##
        female
                       group B
                                          associate's degree
                                                                  standard
##
  382
          male
                                                                  standard
                       group C
                                          associate's degree
  383
##
          male
                       group C
                                             master's degree free/reduced
##
   384
        female
                       group E
                                            some high school free/reduced
   385
        female
                                            some high school free/reduced
                       group A
        female
  386
                                                some college
                                                                  standard
##
                       group E
   387
        female
                                           bachelor's degree
                                                                  standard
##
                       group E
##
   388
        female
                       group C
                                          associate's degree free/reduced
   389
        female
                       group D
                                                 high school
                                                                  standard
## 390
          male
                       group D
                                             master's degree
                                                                  standard
   391
          male
                       group E
                                            some high school free/reduced
  392
##
        female
                                                some college
                                                                  standard
                       group D
   393
          male
                       group E
                                                some college
                                                                  standard
## 394
          male
                       group C
                                          associate's degree
                                                                  standard
   395
        female
                       group C
                                            some high school
                                                                  standard
   396
##
          male
                                                 high school free/reduced
                       group A
                                                 high school free/reduced
  397
        female
##
                       group B
##
   398
        female
                       group C
                                          associate's degree
                                                                  standard
##
   399
          male
                                                                  standard
                       group B
                                            some high school
## 400
          male
                       group D
                                            some high school
                                                                  standard
## 401
        female
                       group C
                                            some high school
                                                                  standard
## 402
          male
                                                some college
                                                                  standard
                       group A
## 403
        female
                       group A
                                                some college free/reduced
## 404
        female
                                                 high school
                                                                  standard
                       group D
## 405
        female
                       group C
                                                 high school
                                                                  standard
## 406
        female
                       group C
                                            some high school
                                                                  standard
   407
          male
                                          associate's degree
                                                                  standard
##
                       group B
## 408
        female
                       group B
                                          associate's degree
                                                                  standard
## 409
        female
                                                 high school free/reduced
                       group D
## 410
          male
                       group D
                                          associate's degree
                                                                  standard
## 411
        female
                       group D
                                             master's degree
                                                                  standard
## 412
          male
                       group E
                                                some college
                                                                  standard
## 413
          male
                       group D
                                          associate's degree
                                                                  standard
## 414
          male
                       group B
                                            some high school
                                                                  standard
## 415
        female
                       group C
                                           bachelor's degree free/reduced
## 416
          male
                       group E
                                                 high school
                                                                  standard
## 417
          male
                       group C
                                          bachelor's degree
                                                                  standard
```

```
## 418
          male
                       group C
                                         associate's degree
                                                                 standard
## 419
          male
                                               some college
                                                                 standard
                       group D
## 420
                                                high school free/reduced
          male
                       group E
## 421
        female
                                         associate's degree free/reduced
                       group C
## 422
        female
                       group D
                                                high school
                                                                 standard
## 423
        female
                                            master's degree free/reduced
                       group D
## 424
        female
                                           some high school
                       group A
                                                                 standard
## 425
          male
                       group B
                                               some college free/reduced
## 426
        female
                       group C
                                               some college free/reduced
## 427
          male
                       group C
                                          bachelor's degree
                                                                 standard
## 428
          male
                       group C
                                           some high school free/reduced
## 429
          male
                                           some high school free/reduced
                       group A
## 430
          male
                       group C
                                           some high school free/reduced
## 431
                       group C
                                         associate's degree free/reduced
          male
## 432
        female
                       group C
                                                high school
                                                                 standard
## 433
          male
                       group C
                                                high school
                                                                  standard
## 434
        female
                                           some high school free/reduced
                       group A
## 435
          male
                       group C
                                           some high school
                                                                 standard
## 436
          male
                       group C
                                               some college free/reduced
## 437
          male
                       group D
                                         associate's degree
                                                                  standard
## 438
          male
                       group D
                                         associate's degree free/reduced
## 439
          male
                       group C
                                                high school
                                                                 standard
## 440
          male
                                           some high school
                                                                 standard
                       group D
## 441
        female
                                               some college
                                                                  standard
                       group C
        female
## 442
                       group D
                                                high school
                                                                  standard
## 443
        female
                       group A
                                           some high school free/reduced
## 444
        female
                       group B
                                         associate's degree
                                                                 standard
## 445
          male
                                           some high school free/reduced
                       group A
## 446
        female
                                           some high school
                       group C
                                                                 standard
## 447
          male
                       group D
                                               some college free/reduced
## 448
          male
                       group C
                                                high school
                                                                 standard
## 449
          male
                       group B
                                                high school
                                                                  standard
## 450
          male
                       group B
                                         associate's degree
                                                                 standard
## 451
        female
                       group C
                                               some college free/reduced
## 452
        female
                       group E
                                               some college
                                                                 standard
## 453
        female
                                         associate's degree free/reduced
                       group C
## 454
          male
                       group C
                                               some college free/reduced
## 455
        female
                       group C
                                         associate's degree free/reduced
## 456
          male
                                          bachelor's degree free/reduced
                       group C
## 457
        female
                                          bachelor's degree
                                                                 standard
                       group D
## 458
          male
                                         associate's degree free/reduced
                       group D
                                                                 standard
## 459
        female
                       group E
                                          bachelor's degree
## 460
          male
                       group B
                                                high school
                                                                 standard
## 461
          male
                                          bachelor's degree free/reduced
                       group C
                                               some college free/reduced
## 462
          male
                       group B
## 463
        female
                       group E
                                               some college
                                                                  standard
                       group C
## 464
        female
                                               some college free/reduced
## 465
          male
                                          bachelor's degree
                       group A
                                                                 standard
## 466
        female
                       group C
                                               some college
                                                                 standard
## 467
        female
                       group D
                                         associate's degree free/reduced
                                                high school free/reduced
## 468
          male
                       group A
                                                high school free/reduced
## 469
        female
                       group A
## 470
          male
                       group C
                                               some college
                                                                 standard
## 471
       female
                       group C
                                         associate's degree
                                                                  standard
```

```
## 472
        female
                                                 high school
                                                                  standard
                       group C
                                         associate's degree
## 473
        female
                                                                  standard
                       group C
## 474
                       group D
        female
                                            some high school
                                                                  standard
## 475
        female
                       group B
                                         associate's degree
                                                                  standard
## 476
        female
                       group D
                                          bachelor's degree
                                                                  standard
## 477
          male
                                          bachelor's degree
                                                                  standard
                       group E
## 478
          male
                                         associate's degree
                                                                  standard
                       group D
## 479
        female
                       group D
                                             master's degree
                                                                  standard
## 480
          male
                       group E
                                         associate's degree
                                                                  standard
## 481
          male
                       group B
                                                 high school
                                                                  standard
## 482
        female
                       group D
                                         associate's degree free/reduced
## 483
                                                some college free/reduced
          male
                       group C
## 484
          male
                       group A
                                                 high school
                                                                  standard
## 485
                                                                  standard
        female
                       group B
                                          associate's degree
## 486
          male
                                                                  standard
                       group C
                                                 high school
## 487
          male
                       group D
                                                some college free/reduced
## 488
        female
                                         associate's degree free/reduced
                       group C
## 489
          male
                       group B
                                            some high school
                                                                  standard
## 490
          male
                                         associate's degree free/reduced
                       group A
## 491
                                         associate's degree free/reduced
        female
                       group A
## 492
        female
                       group C
                                         associate's degree
                                                                  standard
## 493
        female
                       group C
                                                some college
                                                                  standard
## 494
        female
                       group C
                                          bachelor's degree
                                                                  standard
## 495
        female
                                                 high school
                                                                  standard
                       group B
## 496
          male
                       group D
                                                 high school
                                                                  standard
## 497
        female
                       group C
                                                some college
                                                                  standard
## 498
        female
                       group D
                                                some college free/reduced
## 499
        female
                       group B
                                            some high school
                                                                  standard
## 500
          male
                                                some college
                                                                  standard
                       group E
## 501
        female
                       group D
                                             master's degree
                                                                  standard
        female
## 502
                       group B
                                         associate's degree
                                                                  standard
## 503
          male
                       group C
                                                some college free/reduced
## 504
        female
                       group E
                                         associate's degree
                                                                  standard
## 505
        female
                       group D
                                             master's degree free/reduced
## 506
        female
                       group B
                                            some high school
                                                                  standard
## 507
          male
                                                 high school
                       group A
                                                                  standard
## 508
          male
                       group B
                                           bachelor's degree free/reduced
## 509
          male
                       group C
                                             master's degree
                                                                  standard
## 510
        female
                                           bachelor's degree
                                                                  standard
                       group C
## 511
          male
                                                some college
                                                                  standard
                       group D
## 512
          male
                                            some high school
                                                                  standard
                       group A
## 513
          male
                       group D
                                            some high school free/reduced
## 514
        female
                       group B
                                            some high school
                                                                  standard
## 515
        female
                       group B
                                            master's degree free/reduced
## 516
        female
                       group C
                                            some high school
                                                                  standard
## 517
        female
                                                                  standard
                       group D
                                                some college
## 518
        female
                       group E
                                                some college
                                                                  standard
## 519
        female
                       group D
                                            some high school
                                                                  standard
## 520
                                                 high school free/reduced
        female
                       group B
## 521
          male
                       group D
                                                some college
                                                                  standard
## 522
        female
                                         associate's degree
                       group C
                                                                  standard
## 523
          male
                       group D
                                          bachelor's degree
                                                                  standard
## 524
          male
                       group C
                                            master's degree free/reduced
## 525
          male
                       group C
                                                 high school
                                                                  standard
```

```
## 526
          male
                                                                  standard
                       group E
                                                some college
                                           some high school free/reduced
## 527
          male
                       group C
## 528
        female
                       group C
                                                 high school free/reduced
## 529
        female
                                          bachelor's degree free/reduced
                       group D
## 530
        female
                       group C
                                         associate's degree
                                                                  standard
##
  531
        female
                                         associate's degree
                                                                  standard
                       group C
## 532
        female
                                                                  standard
                       group C
                                           some high school
## 533
                       group E
          male
                                         associate's degree
                                                                  standard
## 534
        female
                       group E
                                         associate's degree
                                                                  standard
## 535
          male
                       group B
                                                 high school
                                                                  standard
   536
        female
                       group C
                                          bachelor's degree free/reduced
## 537
          male
                       group C
                                         associate's degree
                                                                  standard
  538
        female
                       group D
                                                 high school
                                                                  standard
## 539
                                          bachelor's degree
                                                                  standard
          male
                       group E
## 540
          male
                                         associate's degree
                                                                  standard
                       group A
## 541
          male
                       group C
                                                 high school
                                                                  standard
## 542
          male
                                         associate's degree free/reduced
                       group D
## 543
        female
                                         associate's degree
                                                                  standard
                       group C
## 544
        female
                                                                  standard
                       group D
                                         associate's degree
## 545
        female
                       group D
                                            master's degree
                                                                  standard
##
  546
          male
                       group E
                                           some high school free/reduced
## 547
        female
                                           some high school
                                                                  standard
                       group A
## 548
          male
                                                 high school
                                                                  standard
                       group C
## 549
        female
                                                 high school free/reduced
                       group C
## 550
          male
                       group C
                                            master's degree
                                                                  standard
## 551
          male
                       group C
                                           some high school free/reduced
## 552
          male
                       group B
                                          bachelor's degree free/reduced
## 553
        female
                       group B
                                         associate's degree
                                                                  standard
## 554
          male
                                               some college free/reduced
                       group D
## 555
          male
                       group E
                                         associate's degree
                                                                  standard
## 556
        female
                       group C
                                                some college free/reduced
  557
        female
                       group C
                                         associate's degree
                                                                  standard
## 558
          male
                       group C
                                            master's degree free/reduced
## 559
        female
                                         associate's degree free/reduced
                       group B
## 560
          male
                       group D
                                           some high school
                                                                  standard
                                               some college
##
  561
        female
                                                                  standard
                       group D
## 562
        female
                       group C
                                                some college
                                                                  standard
## 563
          male
                       group C
                                          bachelor's degree
                                                                  standard
## 564
        female
                                                some college free/reduced
                       group D
## 565
          male
                                          bachelor's degree free/reduced
                       group B
## 566
          male
                                         associate's degree
                       group B
                                                                  standard
## 567
        female
                       group E
                                          bachelor's degree free/reduced
  568
        female
                                            master's degree free/reduced
                       group D
## 569
          male
                                                 high school free/reduced
                       group B
## 570
          male
                                          bachelor's degree free/reduced
                       group D
## 571
          male
                                                some college
                                                                  standard
                       group B
## 572
          male
                       group A
                                          bachelor's degree
                                                                  standard
## 573
        female
                       group C
                                                some college
                                                                  standard
                       group C
                                                 high school free/reduced
## 574
        female
## 575
        female
                       group E
                                                 high school
                                                                  standard
## 576
          male
                       group A
                                         associate's degree free/reduced
## 577
          male
                       group A
                                               some college
                                                                  standard
## 578
        female
                       group B
                                                high school
                                                                  standard
## 579
        female
                       group B
                                               some college free/reduced
```

```
## 580
        female
                                            master's degree
                                                                  standard
                       group D
## 581
        female
                                                                  standard
                       group D
                                           some high school
## 582
        female
                       group E
                                           some high school
                                                                  standard
  583
        female
                                          bachelor's degree free/reduced
                       group D
   584
        female
                       group D
                                         associate's degree
                                                                  standard
##
   585
        female
                                                                  standard
                       group D
                                                some college
   586
        female
                                         associate's degree
                                                                  standard
                       group C
## 587
        female
                       group A
                                                 high school
                                                                  standard
## 588
        female
                       group C
                                          bachelor's degree free/reduced
##
  589
        female
                       group C
                                                some college
                                                                  standard
   590
        female
                       group A
                                            some high school
                                                                  standard
## 591
          male
                                                some college free/reduced
                       group C
                       group A
## 592
          male
                                            some high school
                                                                  standard
## 593
          male
                       group E
                                           bachelor's degree
                                                                  standard
  594
        female
                                                                  standard
                       group E
                                                 high school
## 595
        female
                       group C
                                           bachelor's degree
                                                                  standard
  596
        female
                       group C
                                          bachelor's degree
                                                                  standard
## 597
          male
                       group B
                                                 high school free/reduced
                                                                  standard
## 598
          male
                       group A
                                            some high school
## 599
        female
                       group D
                                                 high school
                                                                  standard
   600
        female
                       group D
                                            some high school
                                                                  standard
  601
        female
                                            master's degree
                                                                  standard
                       group D
## 602
        female
                                                 high school
                                                                  standard
                       group C
## 603
        female
                                                                  standard
                       group E
                                                some college
## 604
          male
                       group D
                                                 high school free/reduced
                                            master's degree free/reduced
## 605
          male
                       group D
## 606
          male
                       group C
                                            some high school
                                                                  standard
   607
        female
                       group C
                                         associate's degree
                                                                  standard
   608
        female
##
                       group C
                                            master's degree free/reduced
  609
        female
                       group E
                                                some college
                                                                  standard
## 610
        female
                       group B
                                          associate's degree
                                                                  standard
## 611
          male
                       group D
                                                some college free/reduced
## 612
        female
                       group C
                                                some college
                                                                  standard
                                          bachelor's degree
## 613
          male
                       group C
                                                                  standard
## 614
        female
                       group C
                                         associate's degree
                                                                  standard
                                         associate's degree
  615
        female
                                                                  standard
                       group A
## 616
        female
                       group C
                                                 high school
                                                                  standard
## 617
        female
                       group E
                                          bachelor's degree
                                                                  standard
## 618
          male
                                          bachelor's degree
                                                                  standard
                       group D
## 619
          male
                                            master's degree
                                                                  standard
                       group D
## 620
          male
                                         associate's degree free/reduced
                       group C
## 621
        female
                       group C
                                                 high school free/reduced
## 622
          male
                                          bachelor's degree free/reduced
                       group B
## 623
          male
                                                 high school free/reduced
                       group C
## 624
          male
                       group A
                                                some college
                                                                  standard
## 625
        female
                                          bachelor's degree free/reduced
                       group E
                       group D
## 626
                                                some college
          male
                                                                  standard
## 627
          male
                       group B
                                         associate's degree free/reduced
## 628
          male
                       group D
                                         associate's degree
                                                                  standard
## 629
          male
                       group D
                                                some college free/reduced
## 630
        female
                       group C
                                            some high school
                                                                  standard
## 631
          male
                       group D
                                                some college
                                                                  standard
## 632
          male
                       group B
                                                 high school
                                                                  standard
## 633
        female
                       group B
                                          bachelor's degree
                                                                  standard
```

```
## 634
        female
                       group C
                                                 high school
                                                                  standard
## 635
          male
                                           some high school
                                                                  standard
                       group D
## 636
          male
                       group A
                                                 high school
                                                                  standard
## 637
        female
                       group B
                                                 high school free/reduced
##
   638
        female
                       group D
                                            some high school
                                                                  standard
##
   639
          male
                                                some college
                                                                  standard
                       group E
## 640
        female
                                         associate's degree
                                                                  standard
                       group D
## 641
                       group D
          male
                                                 high school
                                                                  standard
## 642
        female
                       group D
                                         associate's degree free/reduced
## 643
        female
                                            some high school free/reduced
                       group B
   644
        female
                       group E
                                                 high school
                                                                  standard
## 645
          male
                       group B
                                                 high school
                                                                  standard
   646
        female
                       group B
                                           bachelor's degree
                                                                  standard
   647
        female
##
                       group D
                                         associate's degree
                                                                  standard
   648
        female
                                                 high school free/reduced
                       group E
## 649
        female
                       group B
                                                 high school
                                                                  standard
  650
        female
                                                                  standard
                       group D
                                                some college
## 651
          male
                       group C
                                            some high school free/reduced
##
  652
        female
                                                                  standard
                       group A
                                                 high school
  653
        female
##
                       group D
                                                some college
                                                                  standard
##
   654
        female
                       group A
                                         associate's degree
                                                                  standard
   655
        female
                       group B
                                            some high school
                                                                  standard
## 656
        female
                                                some college
                                                                  standard
                       group B
## 657
          male
                                         associate's degree free/reduced
                       group C
## 658
          male
                       group D
                                            some high school
                                                                  standard
  659
        female
                       group D
                                         associate's degree free/reduced
## 660
          male
                       group D
                                         associate's degree
                                                                  standard
   661
          male
                       group C
                                                some college free/reduced
  662
##
          male
                       group C
                                            some high school
                                                                  standard
  663
        female
                       group D
                                                some college free/reduced
        female
## 664
                       group C
                                                 high school
                                                                  standard
##
   665
          male
                       group D
                                         associate's degree
                                                                  standard
   666
##
        female
                       group C
                                            some high school free/reduced
  667
        female
                       group C
##
                                                some college free/reduced
##
   668
        female
                       group B
                                           bachelor's degree free/reduced
                                                some college
##
   669
          male
                       group C
                                                                  standard
## 670
          male
                       group D
                                         associate's degree
                                                                  standard
## 671
        female
                       group C
                                                 high school free/reduced
## 672
          male
                       group D
                                         associate's degree free/reduced
        female
                                                                  standard
## 673
                       group C
                                                some college
                                         associate's degree
## 674
        female
                       group C
                                                                  standard
## 675
        female
                       group D
                                                 high school
                                                                  standard
  676
        female
                       group B
                                                some college
                                                                  standard
##
   677
        female
                       group E
                                                some college
                                                                  standard
## 678
        female
                       group C
                                            some high school
                                                                  standard
## 679
          male
                                         associate's degree free/reduced
                       group D
                                                some college free/reduced
## 680
          male
                       group D
## 681
        female
                       group D
                                                 high school
                                                                  standard
## 682
          male
                       group B
                                                 high school
                                                                  standard
## 683
          male
                       group B
                                                 high school
                                                                  standard
##
  684
        female
                       group C
                                            some high school free/reduced
## 685
          male
                       group B
                                                some college
                                                                  standard
## 686
        female
                       group E
                                            master's degree
                                                                  standard
## 687
          male
                       group E
                                                some college
                                                                  standard
```

```
## 688
          male
                                         associate's degree free/reduced
                       group D
## 689
          male
                                                 high school free/reduced
                       group A
                                                some college free/reduced
## 690
          male
                       group E
## 691
        female
                                         associate's degree
                       group C
                                                                  standard
## 692
        female
                       group E
                                         associate's degree free/reduced
##
   693
        female
                                          bachelor's degree free/reduced
                       group C
   694
        female
                                         associate's degree
                       group D
                                                                  standard
## 695
        female
                       group C
                                            some high school
                                                                  standard
## 696
        female
                       group D
                                                some college free/reduced
##
   697
        female
                       group C
                                         associate's degree
                                                                  standard
   698
        female
                       group A
                                          bachelor's degree
                                                                  standard
## 699
        female
                                         associate's degree
                                                                  standard
                       group D
   700
          male
                       group C
                                                 high school free/reduced
##
  701
        female
                       group E
                                          bachelor's degree
                                                                  standard
## 702
        female
                                           some high school
                                                                  standard
                       group B
## 703
          male
                                          bachelor's degree
                                                                  standard
                       group A
  704
        female
                                                                  standard
                                                some college
                       group D
   705
        female
                       group B
                                            some high school free/reduced
## 706
          male
                                          bachelor's degree free/reduced
                       group A
## 707
          male
                       group D
                                                 high school
                                                                  standard
## 708
          male
                       group C
                                                some college
                                                                  standard
## 709
          male
                       group D
                                                 high school
                                                                  standard
## 710
        female
                                         associate's degree free/reduced
                       group D
                                                some college
## 711
          male
                                                                  standard
                       group C
## 712
        female
                       group E
                                                                  standard
                                            some high school
## 713
        female
                       group D
                                                some college
                                                                  standard
## 714
          male
                       group D
                                            master's degree
                                                                  standard
  715
        female
                                                                  standard
                       group B
                                            some high school
## 716
        female
                                         associate's degree free/reduced
                       group B
## 717
          male
                       group C
                                         associate's degree
                                                                  standard
## 718
        female
                       group C
                                         associate's degree
                                                                  standard
  719
        female
                       group C
                                                 high school
                                                                  standard
## 720
          male
                       group E
                                          associate's degree free/reduced
## 721
        female
                                                some college free/reduced
                       group C
## 722
          male
                       group D
                                            some high school free/reduced
  723
        female
                                            some high school free/reduced
                       group B
## 724
          male
                       group C
                                                 high school
                                                                  standard
## 725
          male
                       group B
                                                some college
                                                                  standard
## 726
          male
                       group E
                                                some college
                                                                  standard
## 727
        female
                                         associate's degree
                                                                  standard
                       group E
## 728
          male
                                            some high school
                                                                  standard
                       group E
## 729
        female
                       group D
                                                 high school free/reduced
## 730
          male
                       group C
                                                some college
                                                                  standard
##
  731
        female
                       group B
                                         associate's degree free/reduced
## 732
          male
                                            some high school free/reduced
                       group A
## 733
                                                some college
        female
                       group C
                                                                  standard
                       group D
## 734
          male
                                            some high school
                                                                  standard
## 735
        female
                       group E
                                                some college free/reduced
## 736
          male
                       group C
                                            master's degree
                                                                  standard
## 737
          male
                       group C
                                         associate's degree
                                                                  standard
                                                some college free/reduced
## 738
        female
                       group B
## 739
          male
                       group D
                                         associate's degree
                                                                  standard
## 740
          male
                       group C
                                                 high school free/reduced
## 741
          male
                       group D
                                          bachelor's degree
                                                                  standard
```

```
## 742
        female
                                         associate's degree free/reduced
                       group A
## 743
        female
                                                                  standard
                       group C
                                                 high school
## 744
        female
                       group C
                                         associate's degree
                                                                  standard
## 745
          male
                       group B
                                                some college free/reduced
## 746
          male
                       group D
                                         associate's degree
                                                                  standard
## 747
          male
                                                high school
                                                                  standard
                       group D
## 748
          male
                                                some college
                                                                  standard
                       group C
## 749
        female
                                          bachelor's degree free/reduced
                       group C
## 750
          male
                       group B
                                                some college
                                                                  standard
## 751
          male
                                                                  standard
                       group D
                                           some high school
## 752
          male
                       group E
                                                some college
                                                                  standard
## 753
          male
                       group C
                                            master's degree free/reduced
   754
        female
                       group C
                                           some high school
                                                                  standard
##
  755
                                         associate's degree free/reduced
          male
                       group C
## 756
        female
                       group E
                                         associate's degree
                                                                  standard
## 757
          male
                       group D
                                                some college
                                                                  standard
## 758
          male
                                          bachelor's degree free/reduced
                       group E
## 759
        female
                       group D
                                                some college free/reduced
## 760
          male
                                                some college
                                                                  standard
                       group B
## 761
        female
                       group C
                                                 high school free/reduced
##
   762
        female
                       group D
                                           some high school
                                                                  standard
##
  763
          male
                       group D
                                           some high school
                                                                  standard
## 764
        female
                                                 high school
                                                                  standard
                       group B
## 765
          male
                                                some college
                                                                  standard
                       group D
## 766
        female
                                                                  standard
                       group B
                                                 high school
   767
        female
                       group C
                                                 high school
                                                                  standard
## 768
          male
                       group B
                                                 high school
                                                                  standard
   769
        female
                                                                  standard
                       group D
                                           some high school
## 770
          male
                                                some college free/reduced
                       group A
## 771
          male
                       group B
                                                 high school
                                                                  standard
## 772
          male
                       group D
                                          bachelor's degree
                                                                  standard
  773
        female
                       group B
                                           some high school free/reduced
## 774
        female
                       group C
                                          bachelor's degree free/reduced
## 775
          male
                       group B
                                                some college
                                                                  standard
  776
        female
                       group B
                                           some high school free/reduced
   777
        female
                                                 high school
                       group B
                                                                  standard
  778
        female
                       group C
                                                some college free/reduced
## 779
        female
                       group A
                                                some college
                                                                  standard
## 780
          male
                                         associate's degree
                                                                  standard
                       group E
## 781
        female
                                         associate's degree free/reduced
                       group D
   782
        female
                                            master's degree
                       group B
                                                                  standard
## 783
        female
                       group B
                                                 high school free/reduced
   784
        female
                                         associate's degree
                       group C
                                                                  standard
##
   785
          male
                                                                  standard
                       group C
                                          bachelor's degree
   786
        female
                                                                  standard
                       group B
                                           some high school
## 787
        female
                       group E
                                           some high school free/reduced
   788
        female
                       group B
                                                some college
                                                                  standard
## 789
          male
                       group C
                                         associate's degree free/reduced
  790
        female
                       group C
                                            master's degree free/reduced
## 791
        female
                       group B
                                                 high school
                                                                  standard
## 792
        female
                       group D
                                                some college free/reduced
                                                 high school free/reduced
## 793
          male
                       group D
## 794
          male
                       group E
                                           some high school
                                                                  standard
## 795
        female
                       group B
                                                 high school
                                                                  standard
```

```
## 796
        female
                       group E
                                         associate's degree free/reduced
                                                 high school
## 797
          male
                                                                  standard
                       group D
                       group E
## 798
        female
                                         associate's degree free/reduced
## 799
          male
                       group E
                                                some college
                                                                  standard
## 800
        female
                       group C
                                         associate's degree
                                                                  standard
##
  801
          male
                                           some high school
                                                                  standard
                       group C
## 802
          male
                                           some high school
                                                                  standard
                       group C
## 803
        female
                       group E
                                         associate's degree
                                                                  standard
## 804
        female
                       group B
                                                some college
                                                                  standard
##
   805
        female
                       group C
                                                some college
                                                                  standard
##
  806
          male
                       group A
                                                some college free/reduced
## 807
                                                some college free/reduced
        female
                       group D
                                                high school free/reduced
   808
        female
                       group E
## 809
          male
                       group C
                                                 high school
                                                                 standard
## 810
          male
                                          bachelor's degree
                                                                  standard
                       group B
## 811
          male
                       group A
                                           some high school
                                                                  standard
## 812
          male
                                                 high school free/reduced
                       group A
## 813
        female
                       group C
                                            master's degree
                                                                 standard
## 814
          male
                       group E
                                           some high school
                                                                  standard
## 815
        female
                       group C
                                                 high school
                                                                  standard
##
  816
          male
                       group B
                                           some high school
                                                                  standard
## 817
        female
                                          bachelor's degree
                                                                  standard
                       group A
## 818
          male
                                          bachelor's degree free/reduced
                       group D
## 819
        female
                                                 high school free/reduced
                       group B
## 820
        female
                                           some high school
                       group C
                                                                  standard
## 821
        female
                       group A
                                           some high school
                                                                  standard
## 822
        female
                       group D
                                          bachelor's degree free/reduced
## 823
          male
                                                some college free/reduced
                       group E
## 824
        female
                                                 high school free/reduced
                       group B
## 825
        female
                       group C
                                           some high school free/reduced
## 826
          male
                       group C
                                                 high school
                                                                  standard
   827
        female
                       group C
                                         associate's degree free/reduced
## 828
        female
                       group C
                                           some high school
                                                                  standard
  829
        female
                       group D
                                           some high school free/reduced
## 830
          male
                       group B
                                           some high school
                                                                  standard
   831
        female
                       group A
                                                some college free/reduced
## 832
        female
                       group C
                                          bachelor's degree free/reduced
## 833
          male
                                          bachelor's degree
                                                                  standard
                       group A
## 834
        female
                                                 high school
                                                                  standard
                       group B
## 835
          male
                                                some college
                                                                  standard
                       group B
  836
        female
                                                high school
                                                                  standard
                       group C
## 837
          male
                       group E
                                                high school
                                                                  standard
   838
        female
                                                 high school
                       group A
                                                                  standard
   839
          male
                                         associate's degree free/reduced
##
                       group B
## 840
        female
                                         associate's degree
                       group C
                                                                  standard
## 841
                                                 high school free/reduced
        female
                       group D
## 842
          male
                       group C
                                           some high school
                                                                  standard
## 843
        female
                       group B
                                                 high school free/reduced
## 844
          male
                       group B
                                                some college free/reduced
## 845
        female
                       group D
                                           some high school free/reduced
## 846
          male
                                            master's degree
                                                                  standard
                       group E
## 847
          male
                                                                  standard
                       group C
                                            master's degree
## 848
          male
                       group D
                                                high school
                                                                  standard
## 849
        female
                       group C
                                                 high school
                                                                  standard
```

```
## 850
          male
                                         associate's degree
                                                                  standard
                       group D
## 851
          male
                                                                  standard
                       group C
                                            master's degree
        female
## 852
                       group A
                                                high school
                                                                  standard
  853
        female
##
                       group E
                                                some college
                                                                  standard
##
  854
          male
                       group E
                                           some high school
                                                                  standard
##
  855
          male
                                           some high school
                                                                  standard
                       group C
## 856
        female
                       group B
                                          bachelor's degree
                                                                  standard
## 857
                       group B
                                                some college free/reduced
          male
## 858
        female
                       group C
                                          bachelor's degree
                                                                  standard
## 859
                                                                  standard
          male
                       group B
                                                 high school
## 860
          male
                       group C
                                         associate's degree free/reduced
## 861
                                         associate's degree
        female
                       group C
                                                                  standard
   862
        female
                       group E
                                             master's degree free/reduced
                                          bachelor's degree free/reduced
  863
##
          male
                       group D
## 864
        female
                       group C
                                                some college
                                                                  standard
## 865
          male
                       group C
                                         associate's degree
                                                                  standard
## 866
          male
                       group D
                                                some college
                                                                  standard
## 867
          male
                       group C
                                                high school free/reduced
## 868
          male
                                         associate's degree
                       group B
                                                                  standard
## 869
          male
                       group E
                                         associate's degree free/reduced
## 870
          male
                       group C
                                         associate's degree free/reduced
## 871
          male
                       group B
                                                 high school
                                                                  standard
## 872
        female
                       group C
                                                some college
                                                                  standard
## 873
          male
                                         associate's degree
                                                                  standard
                       group B
## 874
          male
                       group E
                                         associate's degree free/reduced
## 875
        female
                       group C
                                          bachelor's degree free/reduced
## 876
          male
                       group C
                                                some college free/reduced
## 877
          male
                       group D
                                                some college
                                                                  standard
## 878
          male
                                           some high school
                                                                  standard
                       group C
## 879
        female
                       group D
                                           some high school
                                                                  standard
## 880
        female
                       group D
                                         associate's degree
                                                                  standard
##
   881
          male
                       group C
                                          bachelor's degree
                                                                  standard
  882
##
        female
                       group E
                                          bachelor's degree
                                                                  standard
## 883
        female
                       group B
                                                 high school free/reduced
  884
##
          male
                       group D
                                          bachelor's degree free/reduced
                                         associate's degree
##
   885
        female
                       group E
                                                                  standard
   886
        female
                       group C
                                         associate's degree
                                                                  standard
##
  887
        female
                       group E
                                         associate's degree
                                                                  standard
## 888
          male
                       group C
                                                 high school free/reduced
  889
##
        female
                                                some college free/reduced
                       group D
                                                 high school free/reduced
## 890
          male
                       group D
## 891
        female
                       group E
                                                some college
                                                                  standard
## 892
        female
                       group E
                                         associate's degree
                                                                  standard
##
  893
        female
                       group A
                                            master's degree free/reduced
## 894
          male
                       group D
                                           some high school
                                                                  standard
## 895
        female
                                         associate's degree
                                                                  standard
                       group E
                       group E
   896
        female
                                           some high school free/reduced
## 897
                                                 high school free/reduced
          male
                       group B
                                           some high school free/reduced
## 898
        female
                       group B
## 899
          male
                       group D
                                         associate's degree
                                                                  standard
  900
        female
                                                                  standard
                       group D
                                           some high school
## 901
          male
                       group D
                                            master's degree
                                                                  standard
## 902
        female
                       group C
                                            master's degree
                                                                  standard
## 903
        female
                       group A
                                                 high school free/reduced
```

```
## 904
        female
                                          bachelor's degree free/reduced
                       group D
## 905
        female
                                           some high school free/reduced
                       group D
## 906
                                               some college
          male
                       group D
                                                                 standard
## 907
          male
                                                                  standard
                       group B
                                                high school
## 908
        female
                       group D
                                                some college
                                                                  standard
## 909
        female
                                          bachelor's degree free/reduced
                       group C
## 910
          male
                       group E
                                          bachelor's degree
                                                                 standard
## 911
          male
                       group D
                                          bachelor's degree free/reduced
                                                some college
## 912
        female
                       group A
                                                                  standard
## 913
        female
                       group C
                                          bachelor's degree
                                                                  standard
## 914
        female
                       group C
                                          bachelor's degree free/reduced
## 915
        female
                       group B
                                         associate's degree free/reduced
## 916
        female
                       group E
                                                some college
                                                                 standard
## 917
                       group E
                                          bachelor's degree
          male
                                                                 standard
## 918
        female
                       group C
                                                                  standard
                                                high school
## 919
        female
                       group C
                                         associate's degree
                                                                  standard
## 920
          male
                       group B
                                                some college
                                                                 standard
## 921
          male
                       group D
                                                high school free/reduced
## 922
        female
                       group C
                                                high school free/reduced
## 923
          male
                       group D
                                                high school
                                                                 standard
## 924
        female
                       group B
                                         associate's degree free/reduced
## 925
          male
                       group D
                                                high school free/reduced
## 926
          male
                                           some high school
                                                                 standard
                       group E
## 927
          male
                                         associate's degree free/reduced
                       group E
## 928
        female
                                                high school free/reduced
                       group D
## 929
          male
                       group E
                                         associate's degree free/reduced
## 930
        female
                       group C
                                           some high school free/reduced
## 931
          male
                       group C
                                               some college free/reduced
## 932
          male
                                                some college free/reduced
                       group D
## 933
          male
                       group D
                                         associate's degree free/reduced
## 934
          male
                       group C
                                          bachelor's degree free/reduced
## 935
          male
                       group C
                                         associate's degree
                                                                  standard
## 936
          male
                       group D
                                               some college free/reduced
## 937
          male
                       group A
                                         associate's degree
                                                                 standard
## 938
        female
                       group E
                                                high school free/reduced
## 939
          male
                       group D
                                               some college
                                                                 standard
## 940
          male
                       group D
                                           some high school
                                                                 standard
## 941
          male
                       group C
                                            master's degree free/reduced
        female
## 942
                                            master's degree
                                                                 standard
                       group D
## 943
          male
                                                high school
                                                                 standard
                       group C
## 944
          male
                                           some high school free/reduced
                       group A
## 945
        female
                       group B
                                                high school
                                                                 standard
## 946
        female
                       group C
                                         associate's degree
                                                                  standard
## 947
          male
                       group B
                                                high school
                                                                  standard
## 948
        female
                       group D
                                                some college free/reduced
## 949
                                           some high school free/reduced
          male
                       group B
                                                high school free/reduced
## 950
        female
                       group E
## 951
          male
                       group E
                                                high school
                                                                 standard
## 952
        female
                       group D
                                                some college
                                                                 standard
## 953
        female
                       group E
                                           some high school free/reduced
  954
          male
                       group C
                                                high school
                                                                 standard
## 955
        female
                       group C
                                               some college
                                                                 standard
## 956
          male
                       group E
                                         associate's degree
                                                                 standard
## 957
          male
                       group C
                                                some college
                                                                 standard
```

##	958	female	group	ח	master's degree	standard
	959	female	group		high school	
	960	male	group		high school	
	961	female			some college	standard
	962	female	group		_	
	963	female	group		some high school associate's degree	standard
	964		group		9	
		female	group		some high school	
	965	male	group		some college	standard
	966 967	female	group		some college	
		male	group		some high school	
	968	male	group		some college	
	969	female	group		associate's degree	
	970	female	group		bachelor's degree	
	971	female	group		bachelor's degree	standard
	972	male	group		some high school	standard
	973	female	group		<u> </u>	free/reduced
	974	female	group		_	free/reduced
	975	female	group		some college	
	976	female	group	С	some college	
##	977	male	group	В	some college	free/reduced
##	978	male	group	C	associate's degree	standard
##	979	${\tt male}$	group	D	high school	standard
##	980	female	group	C	associate's degree	standard
##	981	female	group	В	high school	free/reduced
##	982	male	group	D	some high school	standard
##	983	male	group	В	some high school	standard
##	984	${\tt female}$	group	Α	some college	standard
##	985	${\tt female}$	group	C	some high school	standard
##	986	male	group	Α	high school	standard
##	987	${\tt female}$	group	C	associate's degree	standard
##	988	male	group	E	some high school	standard
##	989	female	group	Α	some high school	free/reduced
##	990	female	group	D	some college	free/reduced
##	991	male	group	E	high school	free/reduced
##	992	female	group	В	some high school	standard
##	993	female	group		associate's degree	
##	994	female	group		bachelor's degree	
##	995	male	group		high school	standard
	996	female	group		master's degree	standard
	997	male	group		<u> </u>	free/reduced
	998	female	group			free/reduced
	999	female	group		some college	standard
##		female	group		•	free/reduced
##					math.score reading.score	
	1		=	ione	72 72	74
	2		comple		69 90	88
	3		-	one	90 95	93
	4			ione	47 57	44
	5			none	76 78	75
	6				71 83	78
	7			none	88 95	92
##	-		comple		40 43	39
##				none		
			comple			67 50
##	10		1	ione	38 60	50

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##	22	completed	65	75	70
	23	none	44	54	53
	24	none	69	73	73
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	28	none	67	69	75
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##		none	56	72	65
##		none	40	42	38
##		none	97	87	82
	36	completed	81	81	79
	37	none	74	81	83
	38	none	50	64	59
	39	completed	75	90	88
## ##	41	none	57	56	57
	42	none	55 58	61 73	54 68
##		none	53	58	65
##		none completed	59	65	66
##		none	50	56	54
	46	none	65	54	57
##		completed	55	65	62
##		none	66	71	76
##		completed	57	74	76
##		completed	82	84	82
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##		completed	77	69	68
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##	67	none	45	37	37
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##	70	none	39	64	57
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##	72	completed	63	55	63
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	127	none	72	68	67
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	157 158	completed	66 60	74 60	78 60
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	161 162	completed	82 75	78 88	74 85
	163	completed	49	53	52
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	165	none			
	166	none	81 96	92	91
	167	completed	53	100 51	100 51
		completed			
	168	completed	58 69	76	78 70
	169	completed	68 67	83	78 70
	170	completed	67	75 73	70 74
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## 174	4 none	63	67	70
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## 176	1	81	91	87
## 17	1	46	54	58
## 178	8 completed	71	77	77
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## 18:	1	62	68	75
## 182		46	64	66
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## 18	<u> </u>	45	52	49
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## 188	±	62	66	68
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## 19:		66	65	69
## 193	±	76	83	79
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## 19!	±	69	84	85
## 196		61	55	52
## 19	_	59	69	65
## 198 ## 198		55 45	56	51
## 199 ## 200		45	53 79	55 76
## 200		78 67	7 <i>9</i> 84	86
## 20:	_	65	81	77
## 203		69	77	69
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## 20!		59	41	42
## 200		74	71	78
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## 21:		80	79	79
## 213	-	35	28	27
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## 21	-	87	91	81
## 216	-	84	83	75
## 21	-	83	86	88
## 218	<u>=</u>	34	42	39
## 219	9 none	66	77	70
## 220	0 completed	61	56	56
## 22:	-	56	68	74
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## 22!	-	52	66	73
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##	623	completed	58	51	52
	624	completed	100	96	86
	625	none	61	58	62
	626	completed	100	97	99
	627	completed	69	70	63
	628	none	61	48	46
	629	none	49	57	46
	630	completed	44	51	55
	631	none	67	64	70
	632	none	79	60	65
	633	completed	66	74	81
	634	none	75	88	85
	635	none	84	84	80
	636	none	71	74	64
	637	completed	67	80	81
	638 639	completed	80 86	92 76	88 74
	640	none none	76	74	73
	641	none	41	52	51
	642	completed	74	88	90
	643	none	72	81	79
	644	completed	74	79	80
	645	none	70	65	60
	646	completed	65	81	81
	647	none	59	70	65
	648	none	64	62	68
	649	none	50	53	55
##	650	completed	69	79	81
##	651	completed	51	56	53
	652	completed	68	80	76
	653	completed	85	86	98
	654	completed	65	70	74
	655	none	73	79	79
##	656	none	62	67	67
##	657	none	77	67	64
##	658	none	69	66	61

##	659	none	43	60	58
##	660	none	90	87	85
##	661	none	74	77	73
##	662	none	73	66	63
##	663	none	55	71	69
	664	none	65	69	67
	665	none	80	63	63
	666	completed	50	60	60
	667	completed	63	73	71
##	668	none	77	85	87
##	669	none	73	74	61
##	670	completed	81	72	77
##	671	none	66	76	68
##	672	none	52	57	50
##	673	none	69	78	76
##	674	completed	65	84	84
##	675	completed	69	77	78
##	676	completed	50	64	66
##	677	completed	73	78	76
##	678	completed	70	82	76
	679	none	81	75	78
	680	none	63	61	60
	681	none	67	72	74
##	682	none	60	68	60
	683	none	62	55	54
##	684	completed	29	40	44
##	685	completed	62	66	68
##	686	completed	94	99	100
##	687	completed	85	75	68
##	688	none	77	78	73
##	689	none	53	58	44
	690	none	93	90	83
##	691	none	49	53	53
##	692	none	73	76	78
	693	completed	66	74	81
	694	none	77	77	73
	695	none	49	63	56
	696	none	79 75	89	86
	697	completed	75 50	82	90
	698	none	59 57	72	70
	699	completed	57	78	79
	700	none	66	66	59
	701	completed	79 57	81	82
	702	none	57	67	72
	703	completed	87	84	87
	704	none	63	64	67
	705	completed	59	63	64
	706	none	62	72	65
	707	none	46	34	36
	708	none	66	59 97	52
	709	none	89	87	79
	710	completed	42	61	58
	711	completed	93	84	90
##	712	completed	80	85	85

	713	none	98	100	99
	714	none	81	81	84
	715	completed	60	70	74
	716	completed	76	94	87
	717	completed	73	78	72
	718	completed	96	96	99
	719	none	76	76	74
	720	completed	91	73	80
	721	none	62	72	70
	722	completed	55	59	59
	723	completed	74	90	88
	724	none	50	48	42
	725	none	47	43	41
	726	completed	81	74	71
	727	completed	65	75	77
	728	completed	68	51	57
	729	none	73	92	84
	730	none	53	39	37
	731	completed	68	77	80
	732	none	55	46	43
	733	completed	87	89	94
	734	none	55	47	44
	735	none	53	58	57
	736	none	67	57	59
	737	none	92	79	84
	738 739	completed	53 81	66 71	73 73
	740	none	61	60	
	741	none	80	73	55 72
	742	none	37	57	56
	743	none	81	84	82
	744	none completed	59	73	72
	745	none	55	55	47
	746	none	72	79	74
	747	none	69	75	71
	748	none	69	64	68
	749	none	50	60	59
	750	completed	87	84	86
	751	completed	71	69	68
	752	none	68	72	65
	753	completed	79	77	75
	754	completed	77	90	85
	755	none	58	55	53
	756	none	84	95	92
	757	none	55	58	52
	758	completed	70	68	72
	759	completed	52	59	65
	760	completed	69	77	77
	761	none	53	72	64
	762	none	48	58	54
	763	completed	78	81	86
##	764	none	62	62	63
##	765	none	60	63	59
##	766	none	74	72	72

##	767	completed	58	75	77
	768	completed	76	62	60
	769	none	68	71	75
	770	none	58	60	57
	771	none	52	48	49
##	772	none	75	73	74
	773	completed	52	67	72
##	774	none	62	78	79
##	775	none	66	65	60
##	776	none	49	58	55
##	777	none	66	72	70
##	778	none	35	44	43
##	779	completed	72	79	82
##	780	-	94	85	82
##	781	completed	46	56	57
##	782	none	77	90	84
##		none			
	783 784	completed	76 52	85	82 62
##		completed		59	
	785	completed	91	81	79
##	786	completed	32	51	44
##	787	none	72	79	77
##	788	none	19	38	32
##	789	none	68	65	61
##	790	none	52	65	61
##	791	none	48	62	60
##	792	none	60	66	70
	793	none	66	74	69
##	794	completed	89	84	77
##	795	none	42	52	51
##	796	completed	57	68	73
##	797	none	70	70	70
##	798	none	70	84	81
	799	none	69	60	54
	800	none	52	55	57
	801	completed	67	73	68
	802	completed	76	80	73
	803	none	87	94	95
	804	none	82	85	87
	805	none	73	76	78
	806	none	75	81	74
	807	none	64	74	75
	808	none	41	45	40
	809	none	90	75	69
	810	none	59	54	51
	811	none	51	31	36
	812	none	45	47	49
	813	completed	54	64	67
	814	completed	87	84	76
	815	none	72	80	83
	816	completed	94	86	87
	817	none	45	59	64
	818	completed	61	70	76
	819	none	60	72	68
##	820	none	77	91	88

##	821	completed	85	90	92
##	822	none	78	90	93
##	823	completed	49	52	51
##	824	none	71	87	82
##	825	none	48	58	52
##	826	none	62	67	58
##	827	completed	56	68	70
	828	none	65	69	76
##	829	completed	69	86	81
##	830	none	68	54	53
##	831	none	61	60	57
##	832	completed	74	86	89
##	833	none	64	60	58
##	834	completed	77	82	89
##	835	none	58	50	45
##	836	completed	60	64	74
##	837	none	73	64	57
##	838	completed	75	82	79
##	839	completed	58	57	53
##	840	none	66	77	73
##	841	none	39	52	46
##	842	none	64	58	51
##	843	completed	23	44	36
##	844	completed	74	77	76
##	845	completed	40	65	64
##	846	none	90	85	84
	847	completed	91	85	85
	848	none	64	54	50
	849	none	59	72	68
	850	none	80	75	69
	851	none	71	67	67
	852	none	61	68	63
	853	none	87	85	93
	854	none	82	67	61
	855	none	62	64	55
	856	none	97	97	96
	857	none	75	68	65
	858	none	65	79	81
	859	completed	52	49	46
	860	none	87	73	72
	861	none	53	62	53
	862	none	81	86	87
	863	completed	39	42	38
	864	completed	71	71	80
	865	none	97	93	91
	866	completed	82	82	88
	867	none	59	53	52
	868	none	61	42	41
	869	completed	78	74	72
	870	none	49	51	51
	871	none	59	58	47
	872	completed	70	72	76
	873	completed	82	84	78
##	874	none	90	90	82

шш	875		40	60	C1
		none	43	62	61
##	876	none	80	64	66
##	877	none	81	82	84
##	878	none	57	61	54
##	879	none	59	72	80
##	880	none	64	76	74
##	881	completed	63	64	66
##	882	completed	71	70	70
##	883	none	64	73	71
##	884	none	55	46	44
##	885	none	51	51	54
##	886	completed	62	76	80
##	887	completed	93	100	95
##	888	none	54	72	59
##	889	none	69	65	74
##	890	none	44	51	48
##	891	completed	86	85	91
##	892	none	85	92	85
##	893	none	50	67	73
##	894	completed	88	74	75
##	895	none	59	62	69
##	896	none	32	34	38
##	897	none	36	29	27
##	898	completed	63	78	79
##	899	completed	67	54	63
##	900	completed	65	78	82
##	901	none	85	84	89
##	902	none	73	78	74
##	903	completed	34	48	41
##	904	completed	93	100	100
##	905	none	67	84	84
##	906	none	88	77	77
##	907	none	57	48	51
##	908	completed	79	84	91
##	909	none	67	75	72
##	910	completed	70	64	70
##	911	none	50	42	48
##	912	none	69	84	82
##	913	completed	52	61	66
##	914	completed	47	62	66
##	915	none	46	61	55
##	916	none	68	70	66
##	917	completed	100	100	100
##	918	none	44	61	52
##	919	completed	57	77	80
##	920	completed	91	96	91
##	921	none	69	70	67
	922	none	35	53	46
	923	none	72	66	66
	924	none	54	65	65
	925	none	74	70	69
	926	completed	74	64	60
	927	none	64	56	52
	928	completed	65	61	71
		00mp1000d	30	01	, ,

##	929	completed	46	43	44
##	930	none	48	56	51
##	931	completed	67	74	70
##	932	none	62	57	62
##	933	completed	61	71	73
##	934	completed	70	75	74
##	935	completed	98	87	90
##	936	none	70	63	58
##	937	none	67	57	53
##	938	none	57	58	57
##	939	completed	85	81	85
##	940	completed	77	68	69
##	941	completed	72	66	72
##	942	none	78	91	96
##	943	none	81	66	64
##	944	completed	61	62	61
##	945	none	58	68	61
##	946	none	54	61	58
##	947	none	82	82	80
##	948	none	49	58	60
##	949	completed	49	50	52
##	950	completed	57	75	73
##	951	none	94	73	71
##	952	completed	75	77	83
##	953	none	74	74	72
##	954	completed	58	52	54
##	955	none	62	69	69
##	956	none	72	57	62
##	957	none	84	87	81
	958	none	92	100	100
	959	none	45	63	59
	960	none	75	81	71
	961	none	56	58	64
##	962	none	48	54	53
	963	none	100	100	100
	964	completed	65	76	75
	965	none	72	57	58
	966	none	62	70	72
	967	completed	66	68	64
	968	none	63	63	60
	969	none	68	76	67
	970	none	75	84	80
	971	none	89	100	100
	972	completed	78	72	69
	973	completed	53	50	60
	974	none	49	65	61
	975	none	54	63	67
	976	completed	64	82	77
	977	completed	60	62	60
	978	none	62	65	58
	979	completed	55	41	48
	980	none	91	95	94
	981	none	8	24	23
	982		81	78	78
##	30Z	none	01	18	18

```
## 983
                         completed
                                             79
                                                             85
                                                                             86
## 984
                                             78
                                                             87
                                                                             91
                         completed
## 985
                              none
                                             74
                                                             75
                                                                             82
## 986
                              none
                                             57
                                                             51
                                                                             54
## 987
                              none
                                             40
                                                             59
                                                                             51
## 988
                                                             75
                                                                             76
                         completed
                                             81
## 989
                                                             45
                              none
                                             44
                                                                             45
                                                             86
## 990
                         completed
                                             67
                                                                             83
## 991
                         completed
                                             86
                                                             81
                                                                             75
## 992
                                             65
                                                             82
                                                                             78
                         completed
## 993
                              none
                                             55
                                                             76
                                                                             76
                                                             72
## 994
                                             62
                                                                             74
                              none
## 995
                              none
                                             63
                                                             63
                                                                             62
## 996
                                                             99
                         completed
                                             88
                                                                             95
## 997
                                             62
                                                             55
                                                                             55
                              none
## 998
                         completed
                                             59
                                                             71
                                                                             65
## 999
                                             68
                                                             78
                                                                             77
                         completed
## 1000
                              none
                                             77
                                                             86
                                                                             86
```

#rename the columns

```
names(SP)[names(SP) == "math.score"] <- "subject1"
names(SP)[names(SP) == "reading.score"] <- "subject2"
names(SP)[names(SP) == "writing.score"] <- "subject3"</pre>
```

head(SP,5)

```
gender race.ethnicity parental.level.of.education
                                                                  lunch
##
## 1 female
                    group B
                                       bachelor's degree
                                                               standard
## 2 female
                    group C
                                             some college
                                                               standard
## 3 female
                    group B
                                         master's degree
                                                               standard
                                      associate's degree free/reduced
## 4
       male
                    group A
## 5
                    group C
                                                               standard
       male
                                             some college
##
     test.preparation.course subject1 subject2 subject3
## 1
                                     72
                                               72
                                                        74
                         none
## 2
                                                        88
                                     69
                                               90
                    completed
## 3
                                               95
                                                        93
                         none
                                     90
                                     47
                                               57
## 4
                         none
                                                        44
## 5
                         none
                                     76
                                               78
                                                        75
```

#descending order for subject 1

```
descen <- SP %>%
  arrange(desc(subject1))
head(descen,10)
```

```
##
      gender race.ethnicity parental.level.of.education
                                                                 lunch
                                      associate's degree free/reduced
## 1
        male
                    group E
## 2
     female
                                            some college
                                                              standard
                    group E
## 3 female
                    group E
                                       bachelor's degree
                                                              standard
## 4
        male
                                            some college
                                                              standard
                    group A
## 5
        male
                    group D
                                            some college
                                                              standard
```

```
## 6
        male
                     group E
                                        bachelor's degree
                                                                standard
## 7
      female
                     group E
                                       associate's degree
                                                                standard
## 8
                     group E
                                        bachelor's degree
                                                                standard
      female
      female
                                               high school
                                                                standard
## 9
                     group E
## 10
        male
                     group E
                                              some college
                                                                standard
##
      test.preparation.course subject1 subject2 subject3
## 1
                     completed
                                     100
                                               100
                                                         97
## 2
                                     100
                                                92
                          none
## 3
                          none
                                     100
                                               100
                                                         100
## 4
                                     100
                                                96
                                                         86
                     completed
## 5
                     completed
                                     100
                                                97
                                                         99
## 6
                                               100
                                                         100
                     completed
                                     100
## 7
                                     100
                                               100
                          none
                                                         100
## 8
                                      99
                                               100
                                                         100
                     completed
## 9
                                      99
                                                93
                                                         90
                          none
## 10
                     completed
                                      99
                                                87
                                                         81
```

#random number generator engine

```
sample.int(100, 5)
```

```
## [1] 20 34 96 53 3
```

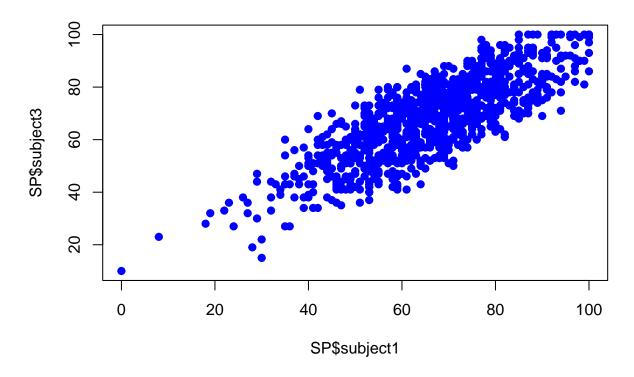
#Print the summary statistics of your datasheet

summary(SP)

```
##
       gender
                       race.ethnicity
                                           parental.level.of.education
    Length: 1000
                                           Length: 1000
##
                        Length: 1000
                       Class :character
    Class :character
                                           Class : character
##
    Mode :character
                       Mode :character
                                           Mode :character
##
##
##
##
                        test.preparation.course
                                                    subject1
                                                                      subject2
       lunch
##
    Length: 1000
                       Length: 1000
                                                Min.
                                                      : 0.00
                                                                  Min.
                                                                        : 17.00
    Class : character
                        Class : character
                                                 1st Qu.: 57.00
                                                                  1st Qu.: 59.00
##
    Mode :character
                       Mode :character
                                                Median : 66.00
                                                                  Median : 70.00
##
                                                Mean
                                                        : 66.09
                                                                  Mean
                                                                          : 69.17
##
                                                 3rd Qu.: 77.00
                                                                  3rd Qu.: 79.00
##
                                                Max.
                                                        :100.00
                                                                  Max.
                                                                          :100.00
##
       subject3
##
          : 10.00
    Min.
##
    1st Qu.: 57.75
   Median : 69.00
##
   Mean
           : 68.05
    3rd Qu.: 79.00
##
   Max.
           :100.00
```

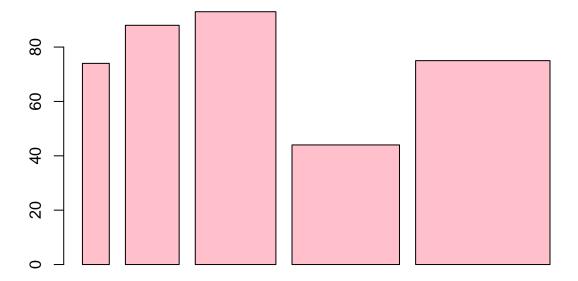
mode

```
find_mode <- function(x1)</pre>
  {
m <- unique(x1)</pre>
tab <- tabulate(match(x1, m))</pre>
m[tab == max(tab)]
find_mode(SP$subject1)
## [1] 65
#mean
mean(SP$subject2)
## [1] 69.169
\# \mathrm{median}
median(SP$subject1)
## [1] 66
#range
range(SP$subject3)
## [1] 10 100
\#\mathrm{scatter} plot for 2 variables
```



 $\# \mathrm{bar}$ plot for 2 variables

```
sp_new <- SP %>% mutate(id = row_number())
barplot(head(sp_new$subject3,5),head(sp_new$id,5), col = "pink")
```



#corelation between 2 variables

cor(SP\$subject2,SP\$subject3)

[1] 0.9545981

GITHUB Link: https://github.com/ritikaamballal/Basics-of-R.git