

# Assignment 1

Team 6

2023-02-09

```
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)
```

```
## 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
## test.preparation.course math.score reading.score writing.score
## 1 none 72 72 74
## 2 completed 69 90 88
## 3 none 90 95 93
## 4 none 47 57 44
## 5 none 76 78 75
## 6 none 71 83 78
## 7 completed 88 95 92
## 8 none 40 43 39
## 9 completed 64 64 67
## 10 none 38 60 50
## 11 none 58 54 52
## 12 none 40 52 43
## 13 none 65 81 73
## 14 completed 78 72 70
## 15 none 50 53 58
```

```
#userdefined function
```

```

grpnbr <-function()
{
  print("Hello Team 6")
}
grpnbr()

```

```
## [1] "Hello Team 6"
```

```
#Reshaping technique
```

```

SP1 <-SP %>%
  mutate(id = row_number()) %>%
  gather(key = "Subject", value = "Score", math.score, reading.score, writing.score)
head(SP1,10)

```

```

##   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
##   test.preparation.course id   Subject Score
## 1                none    1 math.score    72
## 2             completed    2 math.score    69
## 3                none    3 math.score    90
## 4                none    4 math.score    47
## 5                none    5 math.score    76
## 6                none    6 math.score    71
## 7             completed    7 math.score    88
## 8                none    8 math.score    40
## 9             completed    9 math.score    64
## 10               none   10 math.score    38

```

```
#filter for math score
```

```
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      group D      some high school standard
## 4   male      group D      high school standard
## 5   male      group E      some high school standard
## 6 female      group D      bachelor's degree standard
##   test.preparation.course math.score reading.score writing.score
## 1                none          89          84          82

```

## 2	none	89	76	74
## 3	completed	89	88	82
## 4	none	89	87	79
## 5	completed	89	84	77
## 6	none	89	100	100

duplicated(SP)



## 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	free/reduced
## 39	female	group D	associate's degree	free/reduced
## 40	male	group B	associate's degree	free/reduced
## 41	male	group C	associate's degree	free/reduced
## 42	female	group C	associate's degree	standard
## 43	female	group B	associate's degree	standard
## 44	male	group B	some college	free/reduced
## 45	female	group E	associate's degree	free/reduced
## 46	male	group B	associate's degree	standard
## 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	some college	standard
## 52	male	group E	associate's degree	free/reduced
## 53	male	group C	some college	standard
## 54	male	group D	high school	standard
## 55	female	group C	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	standard
## 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	group A	some high school	free/reduced
## 63	male	group A	associate's degree	free/reduced
## 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	male	group D	some high school	free/reduced
## 68	female	group C	some college	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	group C	some high school	standard
## 76	male	group B	associate's degree	free/reduced
## 77	male	group E	some high school	standard
## 78	male	group A	bachelor's degree	standard
## 79	female	group D	some high school	standard
## 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	group D	high school	free/reduced
## 86	female	group C	some college	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	group D	some high school	standard
## 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	group B	some college	standard
## 96	male	group C	associate's degree	free/reduced
## 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	group D	bachelor's degree	standard
## 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	some college	standard
## 106	female	group C	some college	standard
## 107	female	group D	master's degree	standard
## 108	male	group E	associate's degree	standard
## 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	group C	high school	standard
## 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	high school	standard
## 117	female	group B	bachelor's degree	free/reduced
## 118	female	group D	bachelor's degree	standard
## 119	female	group D	some high school	standard
## 120	female	group C	some college	standard
## 121	female	group C	bachelor's degree	standard
## 122	male	group B	associate's degree	standard
## 123	female	group C	some college	standard
## 124	male	group D	high school	free/reduced
## 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
## 129	male	group D	master's degree	standard
## 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	group E	some college	free/reduced
## 134	female	group C	some college	standard
## 135	male	group D	bachelor's degree	free/reduced
## 136	male	group C	bachelor's degree	standard
## 137	male	group B	some high school	standard
## 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
## 142	female	group C	some college	free/reduced
## 143	female	group E	some college	free/reduced
## 144	male	group A	high school	standard
## 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	group C	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 A	some high school	standard
## 152	male	group A	bachelor's degree	standard
## 153	female	group B	associate's degree	standard
## 154	male	group D	bachelor's degree	standard
## 155	male	group D	some high school	standard
## 156	female	group C	some college	standard
## 157	female	group E	high school	free/reduced
## 158	male	group B	some college	free/reduced
## 159	female	group B	associate's degree	standard
## 160	male	group D	associate's degree	free/reduced
## 161	male	group B	associate's degree	free/reduced
## 162	female	group E	some college	free/reduced
## 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	group C	bachelor's degree	standard
## 167	male	group C	high school	free/reduced



## 168	female	group B	master's degree	free/reduced
## 169	female	group B	high school	standard
## 170	female	group C	some college	free/reduced
## 171	male	group A	high school	standard
## 172	male	group E	some high school	standard
## 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	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	group E	high school	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	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	group B	some high school	standard
## 194	male	group D	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	group E	high school	free/reduced
## 199	female	group B	some college	free/reduced
## 200	female	group B	bachelor's degree	free/reduced
## 201	female	group C	associate's degree	standard
## 202	female	group D	some college	free/reduced
## 203	male	group C	associate's degree	standard
## 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	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	group C	some college	free/reduced
## 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	group E	associate's degree	free/reduced
## 218	female	group C	high school	free/reduced
## 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	female	group C	some high school	free/reduced
## 224	male	group D	some high school	standard
## 225	female	group B	associate's degree	standard
## 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	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	group E	some high school	standard
## 235	male	group C	bachelor's degree	standard
## 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	group C	associate's degree	standard
## 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
## 247	male	group E	associate's degree	standard
## 248	female	group B	high school	standard
## 249	female	group B	high school	standard
## 250	male	group C	high school	standard
## 251	male	group A	some high school	standard
## 252	female	group D	some college	free/reduced
## 253	female	group B	some high school	standard
## 254	male	group D	master's degree	standard
## 255	male	group D	high school	standard
## 256	female	group E	some college	standard
## 257	female	group C	associate's degree	free/reduced
## 258	male	group C	associate's degree	standard
## 259	female	group B	some college	standard
## 260	female	group C	master's degree	free/reduced
## 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	group D	some high school	free/reduced
## 267	female	group C	bachelor's degree	standard
## 268	female	group D	high school	standard
## 269	female	group D	associate's degree	standard
## 270	female	group E	some college	free/reduced
## 271	male	group C	bachelor's degree	standard
## 272	male	group C	some college	standard
## 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
## 279	female	group C	some high school	free/reduced
## 280	male	group B	bachelor's degree	free/reduced
## 281	male	group D	high school	standard
## 282	male	group D	high school	standard
## 283	female	group D	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	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	group C	associate's degree	standard
## 292	male	group D	some high school	standard
## 293	male	group C	some high school	standard
## 294	female	group E	bachelor's degree	standard
## 295	male	group D	high school	free/reduced
## 296	male	group B	associate's degree	free/reduced
## 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	group A	some college	free/reduced
## 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
## 308	male	group C	some high school	standard
## 309	female	group B	associate's degree	free/reduced
## 310	female	group D	high school	free/reduced
## 311	female	group B	associate's degree	standard
## 312	male	group B	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	group C	high school	standard
## 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	group C	high school	free/reduced
## 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	group C	some college	standard
## 327	male	group C	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	male	group E	associate's degree	standard
## 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
## 338	male	group C	associate's degree	standard
## 339	female	group B	some high school	free/reduced
## 340	female	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	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	some college	standard
## 354	female	group C	associate's degree	standard
## 355	female	group C	some college	standard
## 356	female	group B	bachelor's degree	standard
## 357	male	group A	associate's degree	standard
## 358	female	group C	some college	free/reduced
## 359	male	group D	some college	free/reduced
## 360	female	group D	some college	standard
## 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
## 368	male	group C	bachelor's degree	free/reduced
## 369	female	group A	some high school	free/reduced
## 370	female	group D	some high school	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	female	group D	bachelor's degree	standard
## 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	group A	some high school	standard
## 380	male	group A	bachelor's degree	standard
## 381	female	group B	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	female	group A	some high school	free/reduced
## 386	female	group E	some college	standard
## 387	female	group E	bachelor's degree	standard
## 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	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	group A	high school	free/reduced
## 397	female	group B	high school	free/reduced
## 398	female	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	group A	some college	standard
## 403	female	group A	some college	free/reduced
## 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
## 409	female	group D	high school	free/reduced
## 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	group D	some college	standard
## 420	male	group E	high school	free/reduced
## 421	female	group C	associate's degree	free/reduced
## 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
## 428	male	group C	some high school	free/reduced
## 429	male	group A	some high school	free/reduced
## 430	male	group C	some high school	free/reduced
## 431	male	group C	associate's degree	free/reduced
## 432	female	group C	high school	standard
## 433	male	group C	high school	standard
## 434	female	group A	some high school	free/reduced
## 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	group D	some high school	standard
## 441	female	group C	some college	standard
## 442	female	group D	high school	standard
## 443	female	group A	some high school	free/reduced
## 444	female	group B	associate's degree	standard
## 445	male	group A	some high school	free/reduced
## 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	group B	associate's degree	standard
## 451	female	group C	some college	free/reduced
## 452	female	group E	some college	standard
## 453	female	group C	associate's degree	free/reduced
## 454	male	group C	some college	free/reduced
## 455	female	group C	associate's degree	free/reduced
## 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	group A	bachelor's degree	standard
## 466	female	group C	some college	standard
## 467	female	group D	associate's degree	free/reduced
## 468	male	group A	high school	free/reduced
## 469	female	group A	high school	free/reduced
## 470	male	group C	some college	standard
## 471	female	group C	associate's degree	standard
## 472	female	group C	high school	standard
## 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	female	group D	bachelor's degree	standard
## 477	male	group E	bachelor's degree	standard
## 478	male	group D	associate's degree	standard
## 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	male	group C	some college	free/reduced
## 484	male	group A	high school	standard
## 485	female	group B	associate's degree	standard
## 486	male	group C	high school	standard
## 487	male	group D	some college	free/reduced
## 488	female	group C	associate's degree	free/reduced
## 489	male	group B	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	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	group E	some college	standard
## 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	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	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
## 517	female	group D	some college	standard
## 518	female	group E	some college	standard
## 519	female	group D	some high school	standard
## 520	female	group B	high school	free/reduced
## 521	male	group D	some college	standard
## 522	female	group C	associate's degree	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	group E	some college	standard
## 527	male	group C	some high school	free/reduced
## 528	female	group C	high school	free/reduced
## 529	female	group D	bachelor's degree	free/reduced
## 530	female	group C	associate's degree	standard
## 531	female	group C	associate's degree	standard
## 532	female	group C	some high school	standard
## 533	male	group E	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	male	group E	bachelor's degree	standard
## 540	male	group A	associate's degree	standard
## 541	male	group C	high school	standard
## 542	male	group D	associate's degree	free/reduced
## 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	group A	some high school	standard
## 548	male	group C	high school	standard
## 549	female	group C	high school	free/reduced
## 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	group D	some college	free/reduced
## 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	group B	associate's degree	free/reduced
## 560	male	group D	some high school	standard
## 561	female	group D	some college	standard
## 562	female	group C	some college	standard
## 563	male	group C	bachelor's degree	standard
## 564	female	group D	some college	free/reduced
## 565	male	group B	bachelor's degree	free/reduced
## 566	male	group B	associate's degree	standard
## 567	female	group E	bachelor's degree	free/reduced
## 568	female	group D	master's degree	free/reduced
## 569	male	group B	high school	free/reduced
## 570	male	group D	bachelor's degree	free/reduced
## 571	male	group B	some college	standard
## 572	male	group A	bachelor's degree	standard
## 573	female	group C	some college	standard
## 574	female	group C	high school	free/reduced
## 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	group D	master's degree	standard
## 581	female	group D	some high school	standard
## 582	female	group E	some high school	standard
## 583	female	group D	bachelor's degree	free/reduced
## 584	female	group D	associate's degree	standard
## 585	female	group D	some college	standard
## 586	female	group C	associate's degree	standard
## 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	group C	some college	free/reduced
## 592	male	group A	some high school	standard
## 593	male	group E	bachelor's degree	standard
## 594	female	group E	high school	standard
## 595	female	group C	bachelor's degree	standard
## 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	group D	master's degree	standard
## 602	female	group C	high school	standard
## 603	female	group E	some college	standard
## 604	male	group D	high school	free/reduced
## 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	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
## 613	male	group C	bachelor's degree	standard
## 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	group E	bachelor's degree	standard
## 618	male	group D	bachelor's degree	standard
## 619	male	group D	master's degree	standard
## 620	male	group C	associate's degree	free/reduced
## 621	female	group C	high school	free/reduced
## 622	male	group B	bachelor's degree	free/reduced
## 623	male	group C	high school	free/reduced
## 624	male	group A	some college	standard
## 625	female	group E	bachelor's degree	free/reduced
## 626	male	group D	some college	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	group D	some high school	standard
## 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	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	group B	high school	standard
## 646	female	group B	bachelor's degree	standard
## 647	female	group D	associate's degree	standard
## 648	female	group E	high school	free/reduced
## 649	female	group B	high school	standard
## 650	female	group D	some college	standard
## 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	group B	some high school	standard
## 656	female	group B	some college	standard
## 657	male	group C	associate's degree	free/reduced
## 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
## 664	female	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
## 669	male	group C	some college	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
## 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	some college	standard
## 678	female	group C	some high school	standard
## 679	male	group D	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	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	group D	associate's degree	free/reduced
## 689	male	group A	high school	free/reduced
## 690	male	group E	some college	free/reduced
## 691	female	group C	associate's degree	standard
## 692	female	group E	associate's degree	free/reduced
## 693	female	group C	bachelor's degree	free/reduced
## 694	female	group D	associate's degree	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	group D	associate's degree	standard
## 700	male	group C	high school	free/reduced
## 701	female	group E	bachelor's degree	standard
## 702	female	group B	some high school	standard
## 703	male	group A	bachelor's degree	standard
## 704	female	group D	some college	standard
## 705	female	group B	some high school	free/reduced
## 706	male	group A	bachelor's degree	free/reduced
## 707	male	group D	high school	standard

## 708	male	group C	some college	standard
## 709	male	group D	high school	standard
## 710	female	group D	associate's degree	free/reduced
## 711	male	group C	some college	standard
## 712	female	group E	some high school	standard
## 713	female	group D	some college	standard
## 714	male	group D	master's degree	standard
## 715	female	group B	some high school	standard
## 716	female	group B	associate's degree	free/reduced
## 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	group C	some college	free/reduced
## 722	male	group D	some high school	free/reduced
## 723	female	group B	some high school	free/reduced
## 724	male	group C	high school	standard
## 725	male	group B	some college	standard
## 726	male	group E	some college	standard
## 727	female	group E	associate's degree	standard
## 728	male	group E	some high school	standard
## 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	group A	some high school	free/reduced
## 733	female	group C	some college	standard
## 734	male	group D	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
## 738	female	group B	some college	free/reduced
## 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	group A	associate's degree	free/reduced
## 743	female	group C	high school	standard
## 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	group D	high school	standard
## 748	male	group C	some college	standard
## 749	female	group C	bachelor's degree	free/reduced
## 750	male	group B	some college	standard
## 751	male	group D	some high school	standard
## 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	male	group C	associate's degree	free/reduced
## 756	female	group E	associate's degree	standard
## 757	male	group D	some college	standard
## 758	male	group E	bachelor's degree	free/reduced
## 759	female	group D	some college	free/reduced
## 760	male	group B	some college	standard
## 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	group B	high school	standard
## 765	male	group D	some college	standard
## 766	female	group B	high school	standard
## 767	female	group C	high school	standard
## 768	male	group B	high school	standard
## 769	female	group D	some high school	standard
## 770	male	group A	some college	free/reduced
## 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	group B	high school	standard
## 778	female	group C	some college	free/reduced
## 779	female	group A	some college	standard
## 780	male	group E	associate's degree	standard
## 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
## 785	male	group C	bachelor's degree	standard
## 786	female	group B	some high school	standard
## 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
## 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	group D	high school	standard
## 798	female	group E	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	group C	some high school	standard
## 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	female	group D	some college	free/reduced
## 808	female	group E	high school	free/reduced
## 809	male	group C	high school	standard
## 810	male	group B	bachelor's degree	standard
## 811	male	group A	some high school	standard
## 812	male	group A	high school	free/reduced
## 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	group A	bachelor's degree	standard
## 818	male	group D	bachelor's degree	free/reduced
## 819	female	group B	high school	free/reduced
## 820	female	group C	some high school	standard
## 821	female	group A	some high school	standard
## 822	female	group D	bachelor's degree	free/reduced
## 823	male	group E	some college	free/reduced
## 824	female	group B	high school	free/reduced
## 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	group A	bachelor's degree	standard
## 834	female	group B	high school	standard
## 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
## 841	female	group D	high school	free/reduced
## 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	group E	master's degree	standard
## 847	male	group C	master's degree	standard
## 848	male	group D	high school	standard
## 849	female	group C	high school	standard
## 850	male	group D	associate's degree	standard
## 851	male	group C	master's degree	standard
## 852	female	group A	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	group B	bachelor's degree	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	group C	associate's degree	free/reduced
## 861	female	group C	associate's degree	standard
## 862	female	group E	master's degree	free/reduced
## 863	male	group D	bachelor's degree	free/reduced
## 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	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	male	group B	associate's degree	standard
## 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	group C	some high school	standard
## 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
## 885	female	group E	associate's degree	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	group D	some college	free/reduced
## 890	male	group D	high school	free/reduced
## 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	group E	associate's degree	standard
## 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	group D	associate's degree	standard
## 900	female	group D	some high school	standard
## 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	group D	bachelor's degree	free/reduced
## 905	female	group D	some high school	free/reduced
## 906	male	group D	some college	standard
## 907	male	group B	high school	standard
## 908	female	group D	some college	standard
## 909	female	group C	bachelor's degree	free/reduced
## 910	male	group E	bachelor's degree	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	group B	associate's degree	free/reduced
## 916	female	group E	some college	standard
## 917	male	group E	bachelor's degree	standard
## 918	female	group C	high school	standard
## 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	group E	some high school	standard
## 927	male	group E	associate's degree	free/reduced
## 928	female	group D	high school	free/reduced
## 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	group D	some college	free/reduced
## 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
## 942	female	group D	master's degree	standard
## 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	group D	some college	free/reduced
## 949	male	group B	some high school	free/reduced
## 950	female	group E	high school	free/reduced
## 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 D	master's degree	standard
## 959	female	group D	high school	standard
## 960	male	group C	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
## 964	female	group C	some high school	free/reduced
## 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	group E	associate's degree	standard
## 970	female	group B	bachelor's degree	standard
## 971	female	group D	bachelor's degree	standard
## 972	male	group C	some high school	standard
## 973	female	group A	high school	free/reduced
## 974	female	group D	some college	free/reduced
## 975	female	group A	some college	standard
## 976	female	group C	some college	standard
## 977	male	group B	some college	free/reduced

## 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	group D	some high school	standard	
## 983	male	group B	some high school	standard	
## 984	female	group A	some college	standard	
## 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	group D	some college	free/reduced	
## 991	male	group E	high school	free/reduced	
## 992	female	group B	some high school	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	
## 996	female	group E	master's degree	standard	
## 997	male	group C	high school	free/reduced	
## 998	female	group C	high school	free/reduced	
## 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		none	72	72	74
## 2		completed	69	90	88
## 3		none	90	95	93
## 4		none	47	57	44
## 5		none	76	78	75
## 6		none	71	83	78
## 7		completed	88	95	92
## 8		none	40	43	39
## 9		completed	64	64	67
## 10		none	38	60	50
## 11		none	58	54	52
## 12		none	40	52	43
## 13		none	65	81	73
## 14		completed	78	72	70
## 15		none	50	53	58
## 16		none	69	75	78
## 17		none	88	89	86
## 18		none	18	32	28
## 19		completed	46	42	46
## 20		none	54	58	61
## 21		none	66	69	63
## 22		completed	65	75	70
## 23		none	44	54	53
## 24		none	69	73	73
## 25		completed	74	71	80
## 26		none	73	74	72
## 27		none	69	54	55
## 28		none	67	69	75
## 29		none	70	70	65
## 30		none	62	70	75



## 31	none	69	74	74
## 32	none	63	65	61
## 33	none	56	72	65
## 34	none	40	42	38
## 35	none	97	87	82
## 36	completed	81	81	79
## 37	none	74	81	83
## 38	none	50	64	59
## 39	completed	75	90	88
## 40	none	57	56	57
## 41	none	55	61	54
## 42	none	58	73	68
## 43	none	53	58	65
## 44	completed	59	65	66
## 45	none	50	56	54
## 46	none	65	54	57
## 47	completed	55	65	62
## 48	none	66	71	76
## 49	completed	57	74	76
## 50	completed	82	84	82
## 51	none	53	55	48
## 52	completed	77	69	68
## 53	none	53	44	42
## 54	none	88	78	75
## 55	completed	71	84	87
## 56	none	33	41	43
## 57	completed	82	85	86
## 58	none	52	55	49
## 59	completed	58	59	58
## 60	none	0	17	10
## 61	completed	79	74	72
## 62	none	39	39	34
## 63	none	62	61	55
## 64	none	69	80	71
## 65	none	59	58	59
## 66	none	67	64	61
## 67	none	45	37	37
## 68	none	60	72	74
## 69	none	61	58	56
## 70	none	39	64	57
## 71	completed	58	63	73
## 72	completed	63	55	63
## 73	none	41	51	48
## 74	none	61	57	56
## 75	none	49	49	41
## 76	none	44	41	38
## 77	none	30	26	22
## 78	completed	80	78	81
## 79	completed	61	74	72
## 80	none	62	68	68
## 81	none	47	49	50
## 82	none	49	45	45
## 83	completed	50	47	54
## 84	none	72	64	63

## 85	none	42	39	34
## 86	none	73	80	82
## 87	none	76	83	88
## 88	none	71	71	74
## 89	none	58	70	67
## 90	none	73	86	82
## 91	none	65	72	74
## 92	none	27	34	36
## 93	none	71	79	71
## 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
## 99	none	58	67	62
## 100	none	65	67	62
## 101	none	79	67	67
## 102	completed	68	74	74
## 103	none	85	91	89
## 104	completed	60	44	47
## 105	completed	98	86	90
## 106	none	58	67	72
## 107	none	87	100	100
## 108	completed	66	63	64
## 109	none	52	76	70
## 110	none	70	64	72
## 111	completed	77	89	98
## 112	none	62	55	49
## 113	none	54	53	47
## 114	none	51	58	54
## 115	completed	99	100	100
## 116	none	84	77	74
## 117	none	75	85	82
## 118	none	78	82	79
## 119	none	51	63	61
## 120	none	55	69	65
## 121	completed	79	92	89
## 122	completed	91	89	92
## 123	completed	88	93	93
## 124	none	63	57	56
## 125	none	83	80	73
## 126	none	87	95	86
## 127	none	72	68	67
## 128	completed	65	77	74
## 129	none	82	82	74
## 130	none	51	49	51
## 131	none	89	84	82
## 132	completed	53	37	40
## 133	completed	87	74	70
## 134	completed	75	81	84
## 135	completed	74	79	75
## 136	none	58	55	48
## 137	completed	51	54	41
## 138	none	70	55	56

## 139	none	59	66	67
## 140	completed	71	61	69
## 141	none	76	72	71
## 142	none	59	62	64
## 143	completed	42	55	54
## 144	none	57	43	47
## 145	none	88	73	78
## 146	none	22	39	33
## 147	none	88	84	75
## 148	none	73	68	66
## 149	completed	68	75	81
## 150	completed	100	100	93
## 151	completed	62	67	69
## 152	none	77	67	68
## 153	completed	59	70	66
## 154	none	54	49	47
## 155	none	62	67	61
## 156	completed	70	89	88
## 157	completed	66	74	78
## 158	none	60	60	60
## 159	completed	61	86	87
## 160	none	66	62	64
## 161	completed	82	78	74
## 162	completed	75	88	85
## 163	none	49	53	52
## 164	none	52	53	49
## 165	none	81	92	91
## 166	completed	96	100	100
## 167	completed	53	51	51
## 168	completed	58	76	78
## 169	completed	68	83	78
## 170	completed	67	75	70
## 171	completed	72	73	74
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## 174	none	63	67	70
## 175	completed	43	51	54
## 176	completed	81	91	87
## 177	completed	46	54	58
## 178	completed	71	77	77
## 179	completed	52	70	62
## 180	completed	97	100	100
## 181	completed	62	68	75
## 182	none	46	64	66
## 183	none	50	50	47
## 184	none	65	69	70
## 185	completed	45	52	49
## 186	completed	65	67	65
## 187	none	80	76	65
## 188	completed	62	66	68
## 189	none	48	52	45
## 190	none	77	88	87
## 191	none	66	65	69
## 192	completed	76	83	79

## 193	none	62	64	66
## 194	completed	77	62	62
## 195	completed	69	84	85
## 196	none	61	55	52
## 197	completed	59	69	65
## 198	none	55	56	51
## 199	none	45	53	55
## 200	none	78	79	76
## 201	completed	67	84	86
## 202	none	65	81	77
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## 206	completed	74	71	78
## 207	none	82	62	62
## 208	completed	81	80	76
## 209	none	74	81	76
## 210	none	58	61	66
## 211	completed	80	79	79
## 212	none	35	28	27
## 213	none	42	62	60
## 214	completed	60	51	56
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## 216	completed	84	83	75
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## 218	none	34	42	39
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## 220	completed	61	56	56
## 221	completed	56	68	74
## 222	none	87	85	73
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## 224	none	86	80	75
## 225	completed	52	66	73
## 226	none	45	56	54
## 227	none	72	72	71
## 228	none	57	50	54
## 229	none	68	72	64
## 230	completed	88	95	94
## 231	none	76	64	66
## 232	none	46	43	42
## 233	none	67	86	83
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## 235	completed	83	82	84
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## 237	none	63	66	67
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## 239	none	54	52	51
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## 241	completed	73	68	66
## 242	none	80	83	83
## 243	none	56	52	55
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## 245	none	75	74	69
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## 247	none	89	76	74
## 248	completed	58	70	68
## 249	none	65	64	62
## 250	none	68	60	53
## 251	completed	47	49	49
## 252	none	71	83	83
## 253	completed	60	70	70
## 254	none	80	80	72
## 255	none	54	52	52
## 256	none	62	73	70
## 257	none	64	73	68
## 258	completed	78	77	77
## 259	none	70	75	78
## 260	completed	65	81	81
## 261	completed	64	79	77
## 262	completed	79	79	78
## 263	none	44	50	51
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## 265	none	76	73	68
## 266	none	59	42	41
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## 269	completed	88	92	95
## 270	none	71	76	70
## 271	none	69	63	61
## 272	none	58	49	42
## 273	none	47	53	58
## 274	none	65	70	71
## 275	completed	88	85	76
## 276	none	83	78	73
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## 280	none	73	56	57
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## 282	none	45	48	46
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## 286	completed	81	82	82
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## 290	completed	77	76	77
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## 292	none	86	73	70
## 293	completed	63	60	57
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## 295	completed	78	77	80
## 296	none	67	62	60
## 297	completed	46	41	43
## 298	completed	71	74	68
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## 301	completed	81	78	81
## 302	none	56	54	52
## 303	completed	67	84	81
## 304	none	80	76	64
## 305	completed	74	75	83
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## 308	none	51	52	44
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## 311	none	73	76	80
## 312	none	66	60	57
## 313	completed	67	61	68
## 314	completed	68	67	69
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## 316	none	71	66	65
## 317	completed	77	82	91
## 318	none	83	72	78
## 319	none	63	71	69
## 320	none	56	65	63
## 321	completed	67	79	84
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## 324	none	43	53	53
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## 327	none	61	61	62
## 328	none	28	23	19
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## 336	none	61	68	66
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## 341	none	58	61	52
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## 344	completed	67	72	67
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## 347	none	62	61	57
## 348	completed	77	94	95
## 349	none	75	74	66
## 350	none	87	74	76
## 351	none	52	65	69
## 352	none	66	57	52
## 353	completed	63	78	80
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## 355	none	59	71	70
## 356	none	61	72	70
## 357	none	63	61	61
## 358	completed	42	66	69
## 359	none	59	62	61
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## 361	none	58	62	59
## 362	completed	85	84	78
## 363	none	52	58	58
## 364	none	27	34	32
## 365	none	59	60	58
## 366	completed	49	58	60
## 367	completed	69	58	53
## 368	none	61	66	61
## 369	none	44	64	58
## 370	none	73	84	85
## 371	none	84	77	71
## 372	completed	45	73	70
## 373	none	74	74	72
## 374	completed	82	97	96
## 375	none	59	70	73
## 376	none	46	43	41
## 377	none	80	90	82
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## 379	none	71	83	77
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## 385	none	38	43	43
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## 387	none	64	73	70
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## 391	completed	73	67	59
## 392	none	77	68	77
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## 396	none	48	45	41
## 397	none	50	67	63
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## 405	none	54	59	62
## 406	none	63	73	68
## 407	completed	65	65	63
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## 409	completed	52	57	56
## 410	completed	87	84	85
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## 460	completed	72	65	68
## 461	none	53	58	55
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## 468	completed	72	67	65
## 469	completed	77	88	85
## 470	none	91	74	76
## 471	completed	83	85	90
## 472	none	63	69	74
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## 476	completed	71	76	83
## 477	completed	76	62	66
## 478	none	80	68	72
## 479	none	55	64	70
## 480	none	76	71	67
## 481	completed	73	71	68
## 482	none	52	59	56
## 483	none	68	68	61
## 484	none	59	52	46
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## 486	none	70	74	71
## 487	none	61	47	56
## 488	none	60	75	74
## 489	completed	64	53	57
## 490	completed	79	82	82
## 491	none	65	85	76
## 492	none	64	64	70
## 493	none	83	83	90
## 494	none	81	88	90
## 495	none	54	64	68
## 496	completed	68	64	66
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## 498	completed	59	78	76
## 499	none	66	69	68
## 500	none	76	71	72
## 501	none	74	79	82
## 502	completed	94	87	92
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## 509	none	79	78	77
## 510	none	86	92	87
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## 512	none	64	50	43
## 513	none	62	49	52
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## 515	completed	77	97	94
## 516	completed	76	87	85

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## 518	completed	66	74	73
## 519	completed	66	78	78
## 520	completed	67	78	79
## 521	none	71	49	52
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## 531	completed	68	67	73
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## 534	completed	79	88	94
## 535	completed	73	69	68
## 536	completed	66	83	83
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## 538	none	51	66	62
## 539	completed	85	66	71
## 540	completed	97	92	86
## 541	completed	75	69	68
## 542	completed	79	82	80
## 543	none	81	77	79
## 544	none	82	95	89
## 545	none	64	63	66
## 546	completed	78	83	80
## 547	completed	92	100	97
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## 552	completed	87	90	88
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## 562	none	63	74	74
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## 564	completed	63	80	80
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## 566	none	48	43	45
## 567	completed	92	100	100
## 568	completed	61	71	78
## 569	none	63	48	47
## 570	none	68	68	67

## 571	completed	71	75	70
## 572	none	91	96	92
## 573	none	53	62	56
## 574	completed	50	66	64
## 575	none	74	81	71
## 576	completed	40	55	53
## 577	completed	61	51	52
## 578	none	81	91	89
## 579	completed	48	56	58
## 580	none	53	61	68
## 581	none	81	97	96
## 582	none	77	79	80
## 583	none	63	73	78
## 584	completed	73	75	80
## 585	none	69	77	77
## 586	none	65	76	76
## 587	none	55	73	73
## 588	none	44	63	62
## 589	none	54	64	65
## 590	none	48	66	65
## 591	none	58	57	54
## 592	none	71	62	50
## 593	none	68	68	64
## 594	none	74	76	73
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## 596	completed	56	79	72
## 597	none	30	24	15
## 598	none	53	54	48
## 599	none	69	77	73
## 600	none	65	82	81
## 601	none	54	60	63
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## 603	none	76	78	80
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## 605	completed	84	89	90
## 606	none	75	72	62
## 607	none	85	84	82
## 608	none	40	58	54
## 609	none	61	64	62
## 610	none	58	63	65
## 611	completed	69	60	63
## 612	none	58	59	66
## 613	completed	94	90	91
## 614	none	65	77	74
## 615	none	82	93	93
## 616	none	60	68	72
## 617	none	37	45	38
## 618	none	88	78	83
## 619	none	95	81	84
## 620	completed	65	73	68
## 621	none	35	61	54
## 622	none	62	63	56
## 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	completed	80	92	88
## 639	none	86	76	74
## 640	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
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## 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
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## 658	none	69	66	61
## 659	none	43	60	58
## 660	none	90	87	85
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## 667	completed	63	73	71
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## 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

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## 681	none	67	72	74
## 682	none	60	68	60
## 683	none	62	55	54
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## 687	completed	85	75	68
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## 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	89	86
## 697	completed	75	82	90
## 698	none	59	72	70
## 699	completed	57	78	79
## 700	none	66	66	59
## 701	completed	79	81	82
## 702	none	57	67	72
## 703	completed	87	84	87
## 704	none	63	64	67
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## 706	none	62	72	65
## 707	none	46	34	36
## 708	none	66	59	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	completed	53	66	73
## 739	none	81	71	73
## 740	none	61	60	55
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## 742	none	37	57	56
## 743	none	81	84	82
## 744	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
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## 775	none	66	65	60
## 776	none	49	58	55
## 777	none	66	72	70
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## 779	completed	72	79	82
## 780	completed	94	85	82
## 781	none	46	56	57
## 782	none	77	90	84
## 783	completed	76	85	82
## 784	completed	52	59	62
## 785	completed	91	81	79
## 786	completed	32	51	44

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## 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
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## 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
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## 802	completed	76	80	73
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## 804	none	82	85	87
## 805	none	73	76	78
## 806	none	75	81	74
## 807	none	64	74	75
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## 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
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## 831	none	61	60	57
## 832	completed	74	86	89
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## 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
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## 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
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## 869	completed	78	74	72
## 870	none	49	51	51
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## 872	completed	70	72	76
## 873	completed	82	84	78
## 874	none	90	90	82
## 875	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
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## 903	completed	34	48	41
## 904	completed	93	100	100
## 905	none	67	84	84
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## 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
## 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	none	81	78	78
## 983	completed	79	85	86
## 984	completed	78	87	91
## 985	none	74	75	82
## 986	none	57	51	54
## 987	none	40	59	51
## 988	completed	81	75	76
## 989	none	44	45	45
## 990	completed	67	86	83
## 991	completed	86	81	75
## 992	completed	65	82	78
## 993	none	55	76	76
## 994	none	62	72	74
## 995	none	63	63	62
## 996	completed	88	99	95
## 997	none	62	55	55
## 998	completed	59	71	65
## 999	completed	68	78	77
## 1000	none	77	86	86

#remove missing values

```
na.omit(SP)
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##	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	free/reduced
## 39	female	group D	associate's degree	free/reduced
## 40	male	group B	associate's degree	free/reduced
## 41	male	group C	associate's degree	free/reduced
## 42	female	group C	associate's degree	standard
## 43	female	group B	associate's degree	standard
## 44	male	group B	some college	free/reduced
## 45	female	group E	associate's degree	free/reduced
## 46	male	group B	associate's degree	standard
## 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	some college	standard
## 52	male	group E	associate's degree	free/reduced
## 53	male	group C	some college	standard
## 54	male	group D	high school	standard
## 55	female	group C	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	standard
## 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	group A	some high school	free/reduced
## 63	male	group A	associate's degree	free/reduced
## 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	male	group D	some high school	free/reduced
## 68	female	group C	some college	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	group C	some high school	standard
## 76	male	group B	associate's degree	free/reduced
## 77	male	group E	some high school	standard
## 78	male	group A	bachelor's degree	standard
## 79	female	group D	some high school	standard
## 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	group D	high school	free/reduced
## 86	female	group C	some college	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	group D	some high school	standard
## 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	group B	some college	standard
## 96	male	group C	associate's degree	free/reduced
## 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	group D	bachelor's degree	standard
## 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	some college	standard
## 106	female	group C	some college	standard
## 107	female	group D	master's degree	standard
## 108	male	group E	associate's degree	standard
## 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	group C	high school	standard
## 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	high school	standard
## 117	female	group B	bachelor's degree	free/reduced
## 118	female	group D	bachelor's degree	standard
## 119	female	group D	some high school	standard
## 120	female	group C	some college	standard
## 121	female	group C	bachelor's degree	standard
## 122	male	group B	associate's degree	standard
## 123	female	group C	some college	standard
## 124	male	group D	high school	free/reduced
## 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
## 129	male	group D	master's degree	standard
## 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	group E	some college	free/reduced
## 134	female	group C	some college	standard
## 135	male	group D	bachelor's degree	free/reduced
## 136	male	group C	bachelor's degree	standard
## 137	male	group B	some high school	standard
## 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
## 142	female	group C	some college	free/reduced
## 143	female	group E	some college	free/reduced
## 144	male	group A	high school	standard
## 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	group C	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 A	some high school	standard
## 152	male	group A	bachelor's degree	standard
## 153	female	group B	associate's degree	standard
## 154	male	group D	bachelor's degree	standard
## 155	male	group D	some high school	standard
## 156	female	group C	some college	standard
## 157	female	group E	high school	free/reduced
## 158	male	group B	some college	free/reduced

## 159	female	group B	associate's degree	standard
## 160	male	group D	associate's degree	free/reduced
## 161	male	group B	associate's degree	free/reduced
## 162	female	group E	some college	free/reduced
## 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	group C	bachelor's degree	standard
## 167	male	group C	high school	free/reduced
## 168	female	group B	master's degree	free/reduced
## 169	female	group B	high school	standard
## 170	female	group C	some college	free/reduced
## 171	male	group A	high school	standard
## 172	male	group E	some high school	standard
## 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	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	group E	high school	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	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	group B	some high school	standard
## 194	male	group D	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	group E	high school	free/reduced
## 199	female	group B	some college	free/reduced
## 200	female	group B	bachelor's degree	free/reduced
## 201	female	group C	associate's degree	standard
## 202	female	group D	some college	free/reduced
## 203	male	group C	associate's degree	standard
## 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	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	group C	some college	free/reduced

## 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	group E	associate's degree	free/reduced
## 218	female	group C	high school	free/reduced
## 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	female	group C	some high school	free/reduced
## 224	male	group D	some high school	standard
## 225	female	group B	associate's degree	standard
## 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	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	group E	some high school	standard
## 235	male	group C	bachelor's degree	standard
## 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	group C	associate's degree	standard
## 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
## 247	male	group E	associate's degree	standard
## 248	female	group B	high school	standard
## 249	female	group B	high school	standard
## 250	male	group C	high school	standard
## 251	male	group A	some high school	standard
## 252	female	group D	some college	free/reduced
## 253	female	group B	some high school	standard
## 254	male	group D	master's degree	standard
## 255	male	group D	high school	standard
## 256	female	group E	some college	standard
## 257	female	group C	associate's degree	free/reduced
## 258	male	group C	associate's degree	standard
## 259	female	group B	some college	standard
## 260	female	group C	master's degree	free/reduced
## 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	group D	some high school	free/reduced

## 267	female	group C	bachelor's degree	standard
## 268	female	group D	high school	standard
## 269	female	group D	associate's degree	standard
## 270	female	group E	some college	free/reduced
## 271	male	group C	bachelor's degree	standard
## 272	male	group C	some college	standard
## 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
## 279	female	group C	some high school	free/reduced
## 280	male	group B	bachelor's degree	free/reduced
## 281	male	group D	high school	standard
## 282	male	group D	high school	standard
## 283	female	group D	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	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	group C	associate's degree	standard
## 292	male	group D	some high school	standard
## 293	male	group C	some high school	standard
## 294	female	group E	bachelor's degree	standard
## 295	male	group D	high school	free/reduced
## 296	male	group B	associate's degree	free/reduced
## 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	group A	some college	free/reduced
## 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
## 308	male	group C	some high school	standard
## 309	female	group B	associate's degree	free/reduced
## 310	female	group D	high school	free/reduced
## 311	female	group B	associate's degree	standard
## 312	male	group B	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	group C	high school	standard
## 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	group C	high school	free/reduced
## 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	group C	some college	standard
## 327	male	group C	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	male	group E	associate's degree	standard
## 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
## 338	male	group C	associate's degree	standard
## 339	female	group B	some high school	free/reduced
## 340	female	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	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	some college	standard
## 354	female	group C	associate's degree	standard
## 355	female	group C	some college	standard
## 356	female	group B	bachelor's degree	standard
## 357	male	group A	associate's degree	standard
## 358	female	group C	some college	free/reduced
## 359	male	group D	some college	free/reduced
## 360	female	group D	some college	standard
## 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
## 368	male	group C	bachelor's degree	free/reduced
## 369	female	group A	some high school	free/reduced
## 370	female	group D	some high school	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	female	group D	bachelor's degree	standard
## 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	group A	some high school	standard
## 380	male	group A	bachelor's degree	standard
## 381	female	group B	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	female	group A	some high school	free/reduced
## 386	female	group E	some college	standard
## 387	female	group E	bachelor's degree	standard
## 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	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	group A	high school	free/reduced
## 397	female	group B	high school	free/reduced
## 398	female	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	group A	some college	standard
## 403	female	group A	some college	free/reduced
## 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
## 409	female	group D	high school	free/reduced
## 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	group D	some college	standard
## 420	male	group E	high school	free/reduced
## 421	female	group C	associate's degree	free/reduced
## 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
## 428	male	group C	some high school	free/reduced

## 429	male	group A	some high school	free/reduced
## 430	male	group C	some high school	free/reduced
## 431	male	group C	associate's degree	free/reduced
## 432	female	group C	high school	standard
## 433	male	group C	high school	standard
## 434	female	group A	some high school	free/reduced
## 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	group D	some high school	standard
## 441	female	group C	some college	standard
## 442	female	group D	high school	standard
## 443	female	group A	some high school	free/reduced
## 444	female	group B	associate's degree	standard
## 445	male	group A	some high school	free/reduced
## 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	group B	associate's degree	standard
## 451	female	group C	some college	free/reduced
## 452	female	group E	some college	standard
## 453	female	group C	associate's degree	free/reduced
## 454	male	group C	some college	free/reduced
## 455	female	group C	associate's degree	free/reduced
## 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	group A	bachelor's degree	standard
## 466	female	group C	some college	standard
## 467	female	group D	associate's degree	free/reduced
## 468	male	group A	high school	free/reduced
## 469	female	group A	high school	free/reduced
## 470	male	group C	some college	standard
## 471	female	group C	associate's degree	standard
## 472	female	group C	high school	standard
## 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	female	group D	bachelor's degree	standard
## 477	male	group E	bachelor's degree	standard
## 478	male	group D	associate's degree	standard
## 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	male	group C	some college	free/reduced
## 484	male	group A	high school	standard
## 485	female	group B	associate's degree	standard
## 486	male	group C	high school	standard
## 487	male	group D	some college	free/reduced
## 488	female	group C	associate's degree	free/reduced
## 489	male	group B	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	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	group E	some college	standard
## 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	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	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
## 517	female	group D	some college	standard
## 518	female	group E	some college	standard
## 519	female	group D	some high school	standard
## 520	female	group B	high school	free/reduced
## 521	male	group D	some college	standard
## 522	female	group C	associate's degree	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	group E	some college	standard
## 527	male	group C	some high school	free/reduced
## 528	female	group C	high school	free/reduced
## 529	female	group D	bachelor's degree	free/reduced
## 530	female	group C	associate's degree	standard
## 531	female	group C	associate's degree	standard
## 532	female	group C	some high school	standard
## 533	male	group E	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	male	group E	bachelor's degree	standard
## 540	male	group A	associate's degree	standard
## 541	male	group C	high school	standard
## 542	male	group D	associate's degree	free/reduced
## 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	group A	some high school	standard
## 548	male	group C	high school	standard
## 549	female	group C	high school	free/reduced
## 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	group D	some college	free/reduced
## 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	group B	associate's degree	free/reduced
## 560	male	group D	some high school	standard
## 561	female	group D	some college	standard
## 562	female	group C	some college	standard
## 563	male	group C	bachelor's degree	standard
## 564	female	group D	some college	free/reduced
## 565	male	group B	bachelor's degree	free/reduced
## 566	male	group B	associate's degree	standard
## 567	female	group E	bachelor's degree	free/reduced
## 568	female	group D	master's degree	free/reduced
## 569	male	group B	high school	free/reduced
## 570	male	group D	bachelor's degree	free/reduced
## 571	male	group B	some college	standard
## 572	male	group A	bachelor's degree	standard
## 573	female	group C	some college	standard
## 574	female	group C	high school	free/reduced
## 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	group D	master's degree	standard
## 581	female	group D	some high school	standard
## 582	female	group E	some high school	standard
## 583	female	group D	bachelor's degree	free/reduced
## 584	female	group D	associate's degree	standard
## 585	female	group D	some college	standard
## 586	female	group C	associate's degree	standard
## 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	group C	some college	free/reduced
## 592	male	group A	some high school	standard
## 593	male	group E	bachelor's degree	standard
## 594	female	group E	high school	standard
## 595	female	group C	bachelor's degree	standard
## 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	group D	master's degree	standard
## 602	female	group C	high school	standard
## 603	female	group E	some college	standard
## 604	male	group D	high school	free/reduced
## 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	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
## 613	male	group C	bachelor's degree	standard
## 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	group E	bachelor's degree	standard
## 618	male	group D	bachelor's degree	standard
## 619	male	group D	master's degree	standard
## 620	male	group C	associate's degree	free/reduced
## 621	female	group C	high school	free/reduced
## 622	male	group B	bachelor's degree	free/reduced
## 623	male	group C	high school	free/reduced
## 624	male	group A	some college	standard
## 625	female	group E	bachelor's degree	free/reduced
## 626	male	group D	some college	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	group D	some high school	standard
## 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	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	group B	high school	standard
## 646	female	group B	bachelor's degree	standard
## 647	female	group D	associate's degree	standard
## 648	female	group E	high school	free/reduced
## 649	female	group B	high school	standard
## 650	female	group D	some college	standard
## 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	group B	some high school	standard
## 656	female	group B	some college	standard
## 657	male	group C	associate's degree	free/reduced
## 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
## 664	female	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
## 669	male	group C	some college	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
## 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	some college	standard
## 678	female	group C	some high school	standard
## 679	male	group D	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	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	group D	associate's degree	free/reduced
## 689	male	group A	high school	free/reduced
## 690	male	group E	some college	free/reduced
## 691	female	group C	associate's degree	standard
## 692	female	group E	associate's degree	free/reduced
## 693	female	group C	bachelor's degree	free/reduced
## 694	female	group D	associate's degree	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	group D	associate's degree	standard
## 700	male	group C	high school	free/reduced
## 701	female	group E	bachelor's degree	standard
## 702	female	group B	some high school	standard
## 703	male	group A	bachelor's degree	standard
## 704	female	group D	some college	standard
## 705	female	group B	some high school	free/reduced
## 706	male	group A	bachelor's degree	free/reduced
## 707	male	group D	high school	standard
## 708	male	group C	some college	standard
## 709	male	group D	high school	standard
## 710	female	group D	associate's degree	free/reduced
## 711	male	group C	some college	standard
## 712	female	group E	some high school	standard
## 713	female	group D	some college	standard
## 714	male	group D	master's degree	standard
## 715	female	group B	some high school	standard
## 716	female	group B	associate's degree	free/reduced
## 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	group C	some college	free/reduced
## 722	male	group D	some high school	free/reduced
## 723	female	group B	some high school	free/reduced
## 724	male	group C	high school	standard
## 725	male	group B	some college	standard
## 726	male	group E	some college	standard
## 727	female	group E	associate's degree	standard
## 728	male	group E	some high school	standard
## 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	group A	some high school	free/reduced
## 733	female	group C	some college	standard
## 734	male	group D	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
## 738	female	group B	some college	free/reduced
## 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	group A	associate's degree	free/reduced
## 743	female	group C	high school	standard
## 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	group D	high school	standard
## 748	male	group C	some college	standard
## 749	female	group C	bachelor's degree	free/reduced
## 750	male	group B	some college	standard
## 751	male	group D	some high school	standard
## 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	male	group C	associate's degree	free/reduced
## 756	female	group E	associate's degree	standard
## 757	male	group D	some college	standard
## 758	male	group E	bachelor's degree	free/reduced
## 759	female	group D	some college	free/reduced
## 760	male	group B	some college	standard
## 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	group B	high school	standard
## 765	male	group D	some college	standard
## 766	female	group B	high school	standard
## 767	female	group C	high school	standard
## 768	male	group B	high school	standard
## 769	female	group D	some high school	standard
## 770	male	group A	some college	free/reduced
## 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	group B	high school	standard
## 778	female	group C	some college	free/reduced
## 779	female	group A	some college	standard
## 780	male	group E	associate's degree	standard
## 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
## 785	male	group C	bachelor's degree	standard
## 786	female	group B	some high school	standard
## 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
## 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	group D	high school	standard
## 798	female	group E	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	group C	some high school	standard
## 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	female	group D	some college	free/reduced
## 808	female	group E	high school	free/reduced
## 809	male	group C	high school	standard
## 810	male	group B	bachelor's degree	standard
## 811	male	group A	some high school	standard
## 812	male	group A	high school	free/reduced
## 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	group A	bachelor's degree	standard
## 818	male	group D	bachelor's degree	free/reduced
## 819	female	group B	high school	free/reduced
## 820	female	group C	some high school	standard
## 821	female	group A	some high school	standard
## 822	female	group D	bachelor's degree	free/reduced
## 823	male	group E	some college	free/reduced
## 824	female	group B	high school	free/reduced
## 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	group A	bachelor's degree	standard
## 834	female	group B	high school	standard
## 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
## 841	female	group D	high school	free/reduced
## 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	group E	master's degree	standard
## 847	male	group C	master's degree	standard
## 848	male	group D	high school	standard
## 849	female	group C	high school	standard
## 850	male	group D	associate's degree	standard
## 851	male	group C	master's degree	standard
## 852	female	group A	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	group B	bachelor's degree	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	group C	associate's degree	free/reduced

## 861	female	group C	associate's degree	standard
## 862	female	group E	master's degree	free/reduced
## 863	male	group D	bachelor's degree	free/reduced
## 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	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	male	group B	associate's degree	standard
## 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	group C	some high school	standard
## 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
## 885	female	group E	associate's degree	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	group D	some college	free/reduced
## 890	male	group D	high school	free/reduced
## 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	group E	associate's degree	standard
## 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	group D	associate's degree	standard
## 900	female	group D	some high school	standard
## 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	group D	bachelor's degree	free/reduced
## 905	female	group D	some high school	free/reduced
## 906	male	group D	some college	standard
## 907	male	group B	high school	standard
## 908	female	group D	some college	standard
## 909	female	group C	bachelor's degree	free/reduced
## 910	male	group E	bachelor's degree	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	group B	associate's degree	free/reduced
## 916	female	group E	some college	standard
## 917	male	group E	bachelor's degree	standard
## 918	female	group C	high school	standard
## 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	group E	some high school	standard
## 927	male	group E	associate's degree	free/reduced
## 928	female	group D	high school	free/reduced
## 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	group D	some college	free/reduced
## 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
## 942	female	group D	master's degree	standard
## 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	group D	some college	free/reduced
## 949	male	group B	some high school	free/reduced
## 950	female	group E	high school	free/reduced
## 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 D	master's degree	standard
## 959	female	group D	high school	standard
## 960	male	group C	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
## 964	female	group C	some high school	free/reduced
## 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	group E	associate's degree	standard	
## 970	female	group B	bachelor's degree	standard	
## 971	female	group D	bachelor's degree	standard	
## 972	male	group C	some high school	standard	
## 973	female	group A	high school	free/reduced	
## 974	female	group D	some college	free/reduced	
## 975	female	group A	some college	standard	
## 976	female	group C	some college	standard	
## 977	male	group B	some college	free/reduced	
## 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	group D	some high school	standard	
## 983	male	group B	some high school	standard	
## 984	female	group A	some college	standard	
## 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	group D	some college	free/reduced	
## 991	male	group E	high school	free/reduced	
## 992	female	group B	some high school	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	
## 996	female	group E	master's degree	standard	
## 997	male	group C	high school	free/reduced	
## 998	female	group C	high school	free/reduced	
## 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		none	72	72	74
## 2		completed	69	90	88
## 3		none	90	95	93
## 4		none	47	57	44
## 5		none	76	78	75
## 6		none	71	83	78
## 7		completed	88	95	92
## 8		none	40	43	39
## 9		completed	64	64	67
## 10		none	38	60	50
## 11		none	58	54	52
## 12		none	40	52	43
## 13		none	65	81	73
## 14		completed	78	72	70
## 15		none	50	53	58
## 16		none	69	75	78
## 17		none	88	89	86
## 18		none	18	32	28
## 19		completed	46	42	46
## 20		none	54	58	61
## 21		none	66	69	63

## 22	completed	65	75	70
## 23	none	44	54	53
## 24	none	69	73	73
## 25	completed	74	71	80
## 26	none	73	74	72
## 27	none	69	54	55
## 28	none	67	69	75
## 29	none	70	70	65
## 30	none	62	70	75
## 31	none	69	74	74
## 32	none	63	65	61
## 33	none	56	72	65
## 34	none	40	42	38
## 35	none	97	87	82
## 36	completed	81	81	79
## 37	none	74	81	83
## 38	none	50	64	59
## 39	completed	75	90	88
## 40	none	57	56	57
## 41	none	55	61	54
## 42	none	58	73	68
## 43	none	53	58	65
## 44	completed	59	65	66
## 45	none	50	56	54
## 46	none	65	54	57
## 47	completed	55	65	62
## 48	none	66	71	76
## 49	completed	57	74	76
## 50	completed	82	84	82
## 51	none	53	55	48
## 52	completed	77	69	68
## 53	none	53	44	42
## 54	none	88	78	75
## 55	completed	71	84	87
## 56	none	33	41	43
## 57	completed	82	85	86
## 58	none	52	55	49
## 59	completed	58	59	58
## 60	none	0	17	10
## 61	completed	79	74	72
## 62	none	39	39	34
## 63	none	62	61	55
## 64	none	69	80	71
## 65	none	59	58	59
## 66	none	67	64	61
## 67	none	45	37	37
## 68	none	60	72	74
## 69	none	61	58	56
## 70	none	39	64	57
## 71	completed	58	63	73
## 72	completed	63	55	63
## 73	none	41	51	48
## 74	none	61	57	56
## 75	none	49	49	41

## 76	none	44	41	38
## 77	none	30	26	22
## 78	completed	80	78	81
## 79	completed	61	74	72
## 80	none	62	68	68
## 81	none	47	49	50
## 82	none	49	45	45
## 83	completed	50	47	54
## 84	none	72	64	63
## 85	none	42	39	34
## 86	none	73	80	82
## 87	none	76	83	88
## 88	none	71	71	74
## 89	none	58	70	67
## 90	none	73	86	82
## 91	none	65	72	74
## 92	none	27	34	36
## 93	none	71	79	71
## 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
## 99	none	58	67	62
## 100	none	65	67	62
## 101	none	79	67	67
## 102	completed	68	74	74
## 103	none	85	91	89
## 104	completed	60	44	47
## 105	completed	98	86	90
## 106	none	58	67	72
## 107	none	87	100	100
## 108	completed	66	63	64
## 109	none	52	76	70
## 110	none	70	64	72
## 111	completed	77	89	98
## 112	none	62	55	49
## 113	none	54	53	47
## 114	none	51	58	54
## 115	completed	99	100	100
## 116	none	84	77	74
## 117	none	75	85	82
## 118	none	78	82	79
## 119	none	51	63	61
## 120	none	55	69	65
## 121	completed	79	92	89
## 122	completed	91	89	92
## 123	completed	88	93	93
## 124	none	63	57	56
## 125	none	83	80	73
## 126	none	87	95	86
## 127	none	72	68	67
## 128	completed	65	77	74
## 129	none	82	82	74

## 130	none	51	49	51
## 131	none	89	84	82
## 132	completed	53	37	40
## 133	completed	87	74	70
## 134	completed	75	81	84
## 135	completed	74	79	75
## 136	none	58	55	48
## 137	completed	51	54	41
## 138	none	70	55	56
## 139	none	59	66	67
## 140	completed	71	61	69
## 141	none	76	72	71
## 142	none	59	62	64
## 143	completed	42	55	54
## 144	none	57	43	47
## 145	none	88	73	78
## 146	none	22	39	33
## 147	none	88	84	75
## 148	none	73	68	66
## 149	completed	68	75	81
## 150	completed	100	100	93
## 151	completed	62	67	69
## 152	none	77	67	68
## 153	completed	59	70	66
## 154	none	54	49	47
## 155	none	62	67	61
## 156	completed	70	89	88
## 157	completed	66	74	78
## 158	none	60	60	60
## 159	completed	61	86	87
## 160	none	66	62	64
## 161	completed	82	78	74
## 162	completed	75	88	85
## 163	none	49	53	52
## 164	none	52	53	49
## 165	none	81	92	91
## 166	completed	96	100	100
## 167	completed	53	51	51
## 168	completed	58	76	78
## 169	completed	68	83	78
## 170	completed	67	75	70
## 171	completed	72	73	74
## 172	none	94	88	78
## 173	none	79	86	81
## 174	none	63	67	70
## 175	completed	43	51	54
## 176	completed	81	91	87
## 177	completed	46	54	58
## 178	completed	71	77	77
## 179	completed	52	70	62
## 180	completed	97	100	100
## 181	completed	62	68	75
## 182	none	46	64	66
## 183	none	50	50	47



## 184	none	65	69	70
## 185	completed	45	52	49
## 186	completed	65	67	65
## 187	none	80	76	65
## 188	completed	62	66	68
## 189	none	48	52	45
## 190	none	77	88	87
## 191	none	66	65	69
## 192	completed	76	83	79
## 193	none	62	64	66
## 194	completed	77	62	62
## 195	completed	69	84	85
## 196	none	61	55	52
## 197	completed	59	69	65
## 198	none	55	56	51
## 199	none	45	53	55
## 200	none	78	79	76
## 201	completed	67	84	86
## 202	none	65	81	77
## 203	none	69	77	69
## 204	none	57	69	68
## 205	none	59	41	42
## 206	completed	74	71	78
## 207	none	82	62	62
## 208	completed	81	80	76
## 209	none	74	81	76
## 210	none	58	61	66
## 211	completed	80	79	79
## 212	none	35	28	27
## 213	none	42	62	60
## 214	completed	60	51	56
## 215	completed	87	91	81
## 216	completed	84	83	75
## 217	completed	83	86	88
## 218	none	34	42	39
## 219	none	66	77	70
## 220	completed	61	56	56
## 221	completed	56	68	74
## 222	none	87	85	73
## 223	none	55	65	62
## 224	none	86	80	75
## 225	completed	52	66	73
## 226	none	45	56	54
## 227	none	72	72	71
## 228	none	57	50	54
## 229	none	68	72	64
## 230	completed	88	95	94
## 231	none	76	64	66
## 232	none	46	43	42
## 233	none	67	86	83
## 234	none	92	87	78
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## 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
## 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	none	81	78	78
## 983	completed	79	85	86
## 984	completed	78	87	91
## 985	none	74	75	82
## 986	none	57	51	54
## 987	none	40	59	51
## 988	completed	81	75	76
## 989	none	44	45	45
## 990	completed	67	86	83
## 991	completed	86	81	75
## 992	completed	65	82	78
## 993	none	55	76	76

```
## 994          none          62          72          74
## 995          none          63          63          62
## 996      completed          88          99          95
## 997          none          62          55          55
## 998      completed          59          71          65
## 999      completed          68          78          77
## 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"
```

```
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
## 4  male      group A      associate's degree free/reduced
## 5  male      group C          some college      standard
##   test.preparation.course subject1 subject2 subject3
## 1          none          72          72          74
## 2      completed          69          90          88
## 3          none          90          95          93
## 4          none          47          57          44
## 5          none          76          78          75
```

```
#descending order for subject 1
```

```
des <- SP %>%
  arrange(desc(subject1))
head(des,15)
```

```
##   gender race.ethnicity parental.level.of.education      lunch
## 1  male      group E      associate's degree free/reduced
## 2 female      group E          some college      standard
## 3 female      group E      bachelor's degree      standard
## 4  male      group A          some college      standard
## 5  male      group D          some college      standard
## 6  male      group E      bachelor's degree      standard
## 7 female      group E      associate's degree      standard
## 8 female      group E      bachelor's degree      standard
## 9 female      group E          high school      standard
## 10 male      group E          some college      standard
## 11 male      group C          some college      standard
## 12 female      group D          some college      standard
## 13 male      group C      associate's degree      standard
## 14 male      group E          some college      standard
## 15 female      group D          some high school      standard
##   test.preparation.course subject1 subject2 subject3
```



```
## 1      completed      100      100      93
## 2      none          100      92      97
## 3      none          100      100     100
## 4      completed      100      96      86
## 5      completed      100      97      99
## 6      completed      100      100     100
## 7      none          100      100     100
## 8      completed      99      100     100
## 9      none          99      93      90
## 10     completed      99      87      81
## 11     completed      98      86      90
## 12     none          98      100     99
## 13     completed      98      87      90
## 14     none          97      87      82
## 15     completed      97      100     100
```

```
#random number generator engine
```

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

```
## [1] 31  2 82 43 11
```

```
#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
##
##
##      lunch      test.preparation.course      subject1      subject2
## 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
## Min.   : 10.00
## 1st Qu.: 57.75
## Median : 69.00
## Mean   : 68.05
## 3rd Qu.: 79.00
## Max.    :100.00
```

```
#mode
```

```
find_mode <- function(x1)
{
m <- unique(x1)
tab <- tabulate(match(x1, m))
m[tab == max(tab)]
}
find_mode(SP$subject1)
```

```
## [1] 65
```

```
#mean
```

```
mean(SP$subject2)
```

```
## [1] 69.169
```

```
#median
```

```
median(SP$subject1)
```

```
## [1] 66
```

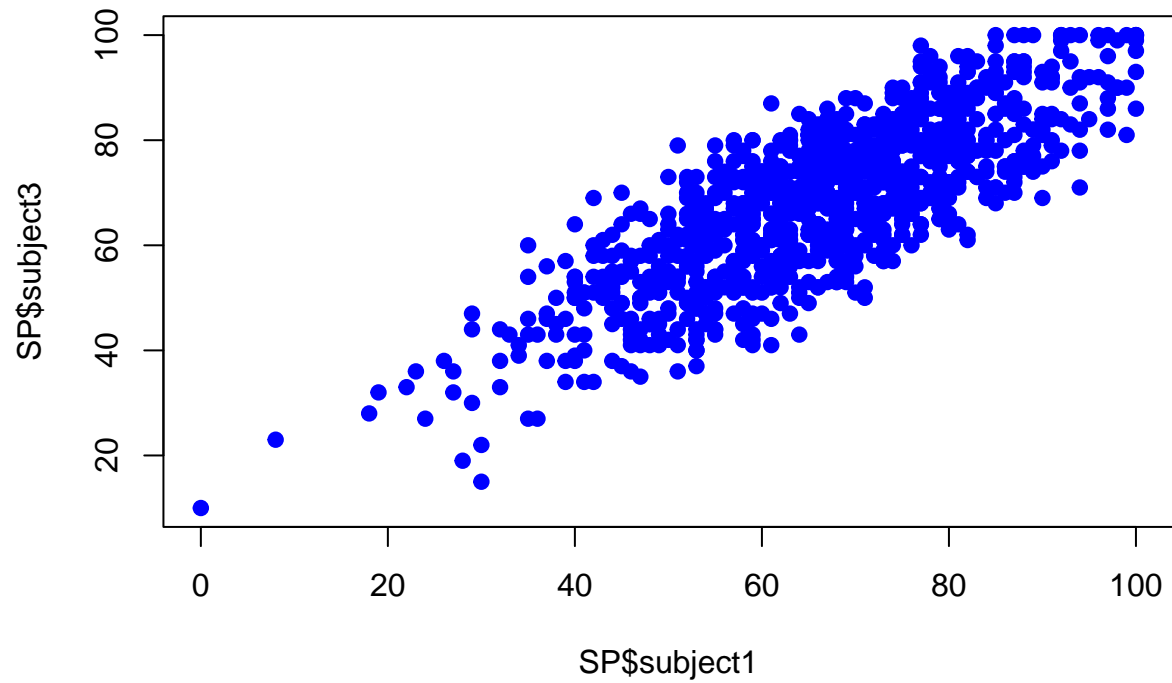
```
#range
```

```
range(SP$subject3)
```

```
## [1] 10 100
```

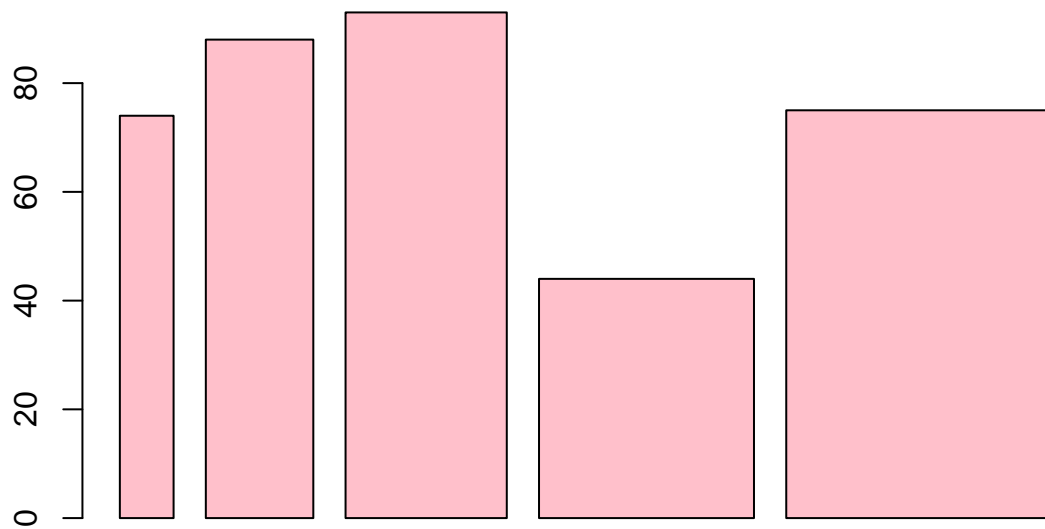
```
#scatter plot for 2 variables
```

```
plot(SP$subject1,SP$subject3,pch = 19, col="blue")
```



#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
```