

Final Report Exercise

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id_number: respondent ID number

region: In which census region do you live? 1 Northwest 2 Midwest 3 South 4 West

gender: Are you... 1 Male 2 Female

educ: What is the highest level of education you have completed? 1 No high school 2 High school graduate 3 Some college 4 2-year 5 4-year 6 Post-grad

edloan: Are you currently responsible for paying off a student loan? 1 Yes 2 No

race: What racial or ethnic group best describes you? 1 White 2 Black 3 Hispanic 4 Asian 5 Native American 6 Mixed 7 Other 8 Middle Eastern

hispanic: Are you of Spanish, Latino, or Hispanic origin or descent? 1 Yes 2 No

employ: Which of the following best describes your current employment status? 1 Full-time 2 Part-time 3 Temporarily laid off 4 Unemployed 5 Retired 6 Permanently disabled 7 Homemaker 8 Student 9 Other

marstat: What is your marital status? 1 Married 2 Separated 3 Divorced 4 Widowed 5 Never married 6 Domestic/civil partnership

pid7: Generally speaking, do you think of yourself as a...? 1 Strong Democrat 2 Not very strong Democrat 3 Lean Democrat 4 Independent 5 Lean Republican 6 Not very strong Republican 7 Strong Republican

ideo5: In general, how would you describe your own political viewpoint? 1 Very liberal 2 Liberal 3 Moderate 4 Conservative 5 Very conservative

pew_religimp: How important is religion in your life? 1 Very important 2 Somewhat important 3 Not too important 4 Not at all important

newsint: Some people seem to follow what's going on in government and public affairs most of the time, whether there's an election going on or not. Others aren't that interested. Would you say you follow what's going on in government and public affairs... 1 Most of the time 2 Some of the time 3 Only now and then 4 Hardly at all

faminc_new: Thinking back over the last year, what was your family's annual income?

1 Less than \$10,000 2 \$10,000 - \$19,999 3 \$20,000 - \$29,999 4 \$30,000 - \$39,999 5 \$40,000 - \$49,999 6 \$50,000 - \$59,999 7 \$60,000 - \$69,999 8 \$70,000 - \$79,999 9 \$80,000 - \$99,999 10 \$100,000 - \$119,999 11 \$120,000 - \$149,999 12 \$150,000 - \$199,999 13 \$200,000 - \$249,999 14 \$250,000 - \$349,999 15 \$350,000 - \$499,999 16 \$500,000 or more

union: Are you a member of a labor union? 1 Yes, I am currently a member of a labor union 2 I formerly was a member of a labor union 3 I am not now, nor have I been, a member of a labor union

investor: Do you personally (or jointly with a spouse), have any money invested in the stock market right now, either in an individual stock or in a mutual fund? 1 Yes 2 No

CC18_308a Job approval - President Trump Do you approve or disapprove of the way each is doing their job... 1 Strongly approve 2 Somewhat approve 3 Somewhat disapprove 4 Strongly disapprove

CC18_310a Party Recall + Name Recognition - Governor Please indicate whether youâ€™ve heard of this person and if so which party he or she is affiliated with. . . 1 Never heard of person 2 Republican 3 Democrat 4 Other Party / Independent 5 Not sure

CC18_310b Party Recall + Name Recognition - Senator 1 Please indicate whether youâ€™ve heard of this person and if so which party he or she is affiliated with. . . 1 Never heard of person 2 Republican 3 Democrat 4 Other Party / Independent 5 Not sure

CC18_310c Party Recall + Name Recognition - Senator 2 Please indicate whether youâ€™ve heard of this person and if so which party he or she is affiliated with. . . 1 Never heard of person 2 Republican 3 Democrat 4 Other Party / Independent 5 Not sure

CC18_310d Party Recall + Name Recognition - Representative

Please indicate whether youâ€™ve heard of this person and if so which party he or she is affiliated with. . . 1 Never heard of person 2 Republican 3 Democrat 4 Other Party / Independent 5 Not sure

CC18_325a Taxes â€“ Cut the Corporate Income Tax rate from 39 percent to 21 percent.

Congress considered many changes in tax law over the past two years. Do you support or oppose each of the following? 1 Support 2 Oppose

CC18_325b Taxes â€“ Reduce the mortgage interest deduction. Allow people to deduct the interest on no more than \$500,000 of mortgage debt. The previous limit was \$1 million. Congress considered many changes in tax law over the past two years. Do you support or oppose each of the following? 1 Support 2 Oppose

CC18_325c Taxes â€“ Limit the amount of state and local taxes that can be deducted to \$10,000 (previously there was no limit). Congress considered many changes in tax law over the past two years. Do you support or oppose each of the following? 1 Support 2 Oppose

CC18_325d Taxes â€“ Increase the standard deduction on federal income taxes from \$12,000 to to \$25,000 Congress considered many changes in tax law over the past two years. Do you support or oppose each of the following? 1 Support 2 Oppose

Problem 1

Create a vector of five numbers of your choice between 0 and 10, save that vector to an object, and use the `sum()` function to calculate the sum of the numbers.

Crea un vector de cinco números de tu elección entre 0 y 10, guarda ese vector en un objeto y utiliza la función `sum()` para calcular la suma de los números.

#Put your code here, then delete this commented line before submission. Don't modify the setup code for

```
vector <- sample.int(10,5)
vector
```

```
## [1] 2 1 5 7 9
```

```
sum.vector <- sum(vector)
sum.vector
```

```
## [1] 24
```

Problem 2

Create a data frame that includes two columns. One column must have the numbers 1 through 5, and the other column must have the numbers 6 through 10. The first column must be named “alpha” and the second

column must be named “beta”. Name the object “my_dat”. Display the data.

Put your code and solution here:

#Put your code here, then delete this commented line before submission. Don't modify the setup code for

```
alfa <- c(1,2,3,4,5)
beta <- c(6,7,8,9,10)
my_data <- cbind(alfa,beta)
my_data <- as.data.frame(my_data)
my_data
```

```
##   alfa beta
## 1    1    6
## 2    2    7
## 3    3    8
## 4    4    9
## 5    5   10
```

Problem 3

Using the data frame created in Problem 2, use the `summary()` command a create a five-number summary for the column named “beta”.

Put your code and solution here:

#Put your code here, then delete this commented line before submission. Don't modify the setup code for

```
summary(my_data$beta)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##         6         7         8         8         9        10
```

Problem 4

There is code for importing the example survey data that will run automatically in the setup chunk for this report (Line 13). Using that data, make a boxplot of the Family Income column using the Base R function (not a figure drawn using `qplot`). Include your name in the title for the plot. Your name should be in the title. Relabel that x-axis as “Family Income”.

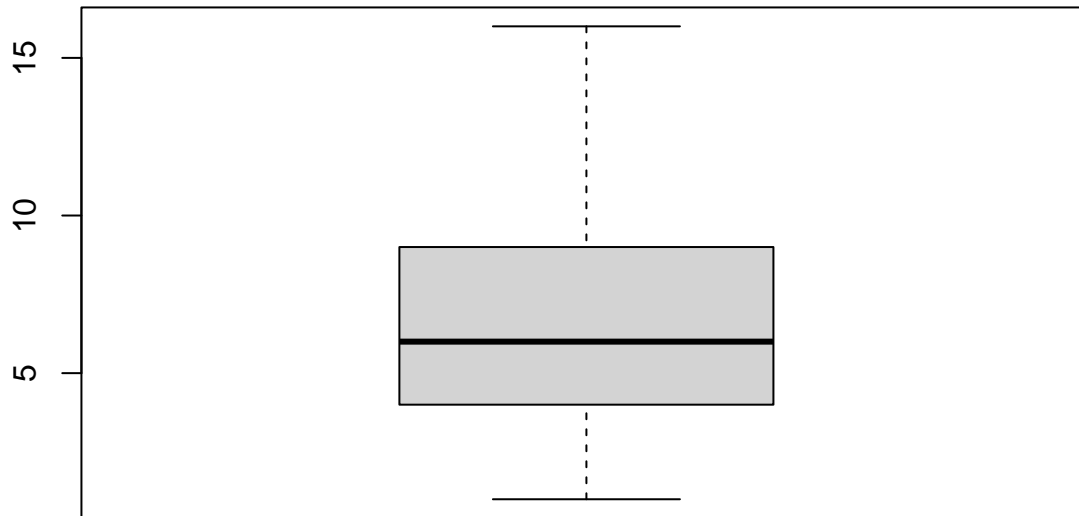
Hint: consult the codebook to identify the correct column name for the family income question.

Put your code and solution here:

#Put your code here, then delete this commented line before submission. Don't modify the setup code for

```
data <- read.csv("https://d3c33hcgivew3.cloudfront.net/D1LYDGZLRamS2AxmSxQJHw_244a6af25c32479990d299bf8")
boxplot(data$faminc_new, main="Family Income")
```

Family Income



Problem 5

Using the survey data, filter to subset the survey data so you only have male survey respondents who live in the northwest or midwest of the United States, are married, and identify as being interested in the news most of the time.

Use the `str()` function to provide information about the resulting dataset.

Put your code and solution here:

#Put your code here, then delete this commented line before submission. Don't modify the setup code for

```
data <- read.csv("https://d3c33hcgivew3.cloudfront.net/D1LYDGZLRAmS2AxmSxQJHw_244a6af25c32479990d299bf8")
str.data <- data%>%filter(gender==1 & marstat==1 & newsint==1)%>%filter(region==1 | region==2)
str(str.data)
```

```
## 'data.frame':      80 obs. of  25 variables:
##  $ caseid      : int  420208067 412948037 411855595 414480371 416806180 414729651 412021973 41234883
##  $ region      : int   2 1 1 1 2 2 1 2 1 2 ...
##  $ gender      : int   1 1 1 1 1 1 1 1 1 1 ...
##  $ educ        : int   3 5 6 5 3 2 6 5 5 5 ...
##  $ edloan      : int   2 1 2 1 1 2 2 2 2 2 ...
##  $ race        : int   1 1 1 1 1 1 1 1 1 1 ...
##  $ hispanic    : int   2 2 2 2 2 2 2 2 2 2 ...
##  $ employ      : int   1 1 1 1 1 5 5 1 1 1 ...
##  $ marstat     : int   1 1 1 1 1 1 1 1 1 1 ...
##  $ pid7        : int   4 1 4 4 6 2 1 1 1 7 ...
##  $ ideo5       : int   5 1 3 3 3 1 2 3 1 5 ...
##  $ pew_religimp: int   4 4 4 1 2 4 4 2 4 1 ...
##  $ newsint     : int   1 1 1 1 1 1 1 1 1 1 ...
##  $ faminc_new  : int  10 11 10 9 10 2 13 8 7 11 ...
##  $ union       : int   1 2 3 3 1 3 2 2 2 3 ...
##  $ investor    : int   2 1 1 1 1 2 1 2 1 2 ...
##  $ CC18_308a   : int   4 4 4 1 2 3 4 4 4 1 ...
```

```
## $ CC18_310a : int 2 3 3 3 2 2 3 2 3 2 ...
## $ CC18_310b : int 2 3 3 3 2 3 3 5 3 3 ...
## $ CC18_310c : int 3 3 3 3 3 3 2 5 3 3 ...
## $ CC18_310d : int 2 5 3 3 3 2 2 2 3 3 ...
## $ CC18_325a : int 1 2 1 1 1 2 2 2 2 1 ...
## $ CC18_325b : int 2 2 1 1 1 1 2 1 2 2 ...
## $ CC18_325c : int 1 2 2 1 1 2 2 1 2 2 ...
## $ CC18_325d : int 1 1 1 1 1 1 1 1 2 1 ...
```

Problem 6

Filter the data the same as in Problem 5. Use a R function to create a frequency table for the responses for the question asking whether these survey respondents are invested in the stock market.

Put your code and solution here:

```
#Put your code here, then delete this commented line before submission. Don't modify the setup code for
table(str.data$investor)
```

```
##
## 1 2
## 60 20
```

Problem 7

Going back to using all rows in the dataset, create a new column in the data using mutate that is equal to either 0, 1, or 2, to reflect whether the respondent supports increasing the standard deduction from 12,000 to 25,000, supports cutting the corporate income tax rate from 39 to 21 percent, or both. Name the column “tax_scale”. Hint: you’ll need to use recode() as well.

Display the first twenty elements of the new column you create.

Put your code and solution here:

```
#Put your code here, then delete this commented line before submission. Don't modify the setup code for
```

```
data %>%
  mutate()
```

```
##      caseid region gender educ edloan race hispanic employ marstat pid7
## 1  417614315      3      1      2      2      1      2      5      3      6
## 2  415490556      1      2      6      2      1      1      1      1      2
## 3  414351505      3      2      3      2      2      2      1      4      2
## 4  411855339      1      2      5      2      6      2      5      3      3
## 5  417056957      2      1      2     NA      4      2      8      5      1
## 6  420208067      2      1      3      2      1      2      1      1      4
## 7  412517331      1      1      2      2      1      2      5      5      5
## 8  412873566      2      2      3      2      1      2      7      1      7
## 9  412948037      1      1      5      1      1      2      1      1      1
## 10 413463295      3      1      5     NA      1      2      1      5      1
## 11 415732156      3      1      6      2      1      2      1      5      6
## 12 416479672      3      2      2      2      1      2      5      4      5
## 13 412984205      1      2      3      2      1      2      7      1      3
## 14 413002690      3      1      6      2      1      2      1      1      6
## 15 414239724      4      1      3      2      3      2      4      5      1
## 16 412311163      3      2      3      1      2      2      1      2      1
```

## 17	414204021	2	2	6	1	1	2	9	1	2
## 18	412931880	4	1	3	2	1	2	1	5	2
## 19	412881399	2	2	4	2	1	2	4	5	3
## 20	412985437	3	2	4	2	1	2	6	3	7
## 21	411855595	1	1	6	2	1	2	1	1	4
## 22	413877573	1	1	5	2	1	2	3	5	3
## 23	414018801	4	1	6	2	1	2	1	1	6
## 24	413425778	4	2	3	2	1	2	1	5	5
## 25	413859987	3	2	6	1	1	2	1	1	7
## 26	417838480	3	1	5	2	1	2	1	4	5
## 27	413456067	3	1	5	2	1	2	6	5	2
## 28	415423745	1	1	2	NA	1	2	2	5	1
## 29	414480371	1	1	5	1	1	2	1	1	4
## 30	413336030	4	2	2	2	3	2	9	5	1
## 31	413834979	3	1	5	2	1	2	5	1	4
## 32	412503538	3	1	6	2	1	2	5	1	1
## 33	413497102	1	2	5	1	2	2	4	1	1
## 34	413084367	4	1	6	1	1	2	1	1	6
## 35	416814438	2	2	5	2	1	2	6	5	1
## 36	417149621	3	1	2	2	1	2	1	1	3
## 37	412380994	4	2	6	2	1	2	2	4	1
## 38	414884778	1	2	3	NA	1	2	8	5	1
## 39	412880622	4	2	5	2	1	2	7	1	1
## 40	414533452	1	2	5	1	1	2	8	5	2
## 41	412276693	3	1	4	2	1	2	1	1	3
## 42	414146718	3	1	5	2	1	2	1	6	6
## 43	415287363	4	1	6	2	1	2	1	1	3
## 44	412380857	4	2	6	1	1	2	1	1	7
## 45	412118399	2	2	5	2	1	2	1	1	2
## 46	416806180	2	1	3	1	1	2	1	1	6
## 47	417080245	3	1	5	2	1	2	1	1	7
## 48	415300641	2	2	4	2	2	2	1	5	3
## 49	414628957	3	1	2	NA	1	2	1	1	2
## 50	417838586	3	1	4	2	1	2	1	1	7
## 51	415151821	3	2	2	NA	3	2	2	6	2
## 52	415459688	3	2	2	2	1	2	2	1	4
## 53	414273888	3	2	2	2	1	2	5	1	4
## 54	347845625	2	2	6	1	1	1	8	1	7
## 55	412913979	4	1	5	2	1	2	1	1	4
## 56	418258996	4	1	4	1	3	2	8	5	3
## 57	412982541	3	1	3	2	1	2	1	1	5
## 58	417353879	3	1	6	2	1	2	1	1	4
## 59	412340210	4	2	6	2	1	2	5	3	2
## 60	416198060	3	1	3	NA	4	2	8	5	1
## 61	412413445	3	2	4	1	2	2	3	5	1
## 62	412794640	2	2	4	2	1	2	1	6	1
## 63	417834862	4	2	4	2	3	2	1	1	1
## 64	414048247	3	1	5	1	2	2	1	1	2
## 65	414002460	4	2	5	2	1	2	7	1	7
## 66	414729651	2	1	2	2	1	2	5	1	2
## 67	414170804	3	1	5	2	1	2	1	5	3
## 68	414359624	3	2	2	NA	3	2	1	5	6
## 69	412021973	1	1	6	2	1	2	5	1	1
## 70	415455668	3	2	3	NA	1	2	8	5	5

## 71	414570461	2	2	4	1	3	2	2	6	2
## 72	414206045	3	2	1	2	2	2	4	5	2
## 73	412944227	2	1	4	2	1	2	1	5	1
## 74	415332185	1	2	6	2	1	2	4	4	1
## 75	412950503	4	2	1	2	1	2	6	3	1
## 76	414563002	3	2	4	2	1	2	1	1	3
## 77	414378813	3	2	2	NA	1	2	7	1	6
## 78	412348831	2	1	5	2	1	2	1	1	1
## 79	415289823	1	2	5	1	1	2	1	1	2
## 80	412929385	1	1	5	2	1	2	1	1	1
## 81	413013788	4	2	2	2	1	2	5	3	3
## 82	413317067	2	2	3	1	1	2	9	2	1
## 83	414709279	2	1	5	1	1	2	1	5	3
## 84	420196837	3	2	4	2	1	2	1	6	6
## 85	416255584	2	2	2	2	1	2	5	1	7
## 86	412992795	3	1	2	2	1	2	2	5	7
## 87	412047867	2	1	5	2	1	2	1	1	7
## 88	414179604	4	2	3	2	1	1	7	1	3
## 89	412340859	2	1	4	2	1	2	5	4	4
## 90	412942845	2	1	3	2	1	2	1	1	3
## 91	417077498	3	1	6	2	3	2	1	1	1
## 92	412344340	4	2	3	1	1	2	2	3	3
## 93	414367203	1	2	2	2	1	2	7	1	6
## 94	413821352	3	1	5	NA	1	2	1	1	6
## 95	417211242	4	1	3	1	2	2	1	1	2
## 96	418252134	2	1	6	1	1	2	1	1	3
## 97	412873793	4	2	3	2	1	2	5	5	1
## 98	414402732	3	1	5	2	2	2	1	5	6
## 99	412274316	3	2	2	2	1	2	7	1	3
## 100	412306590	2	2	5	2	1	2	2	1	1
## 101	415931193	2	2	2	2	1	2	6	5	3
## 102	414200409	4	2	5	NA	1	2	7	1	6
## 103	420237745	3	1	5	1	1	2	8	5	1
## 104	412348490	4	1	4	2	1	2	6	1	3
## 105	414196043	3	2	4	2	1	2	8	1	1
## 106	417353856	4	1	6	2	1	2	5	1	1
## 107	415447008	3	2	5	1	1	2	8	5	6
## 108	413307422	1	1	6	NA	1	2	1	3	6
## 109	416386894	1	1	5	1	1	1	1	1	6
## 110	414174679	2	2	1	2	1	2	4	5	2
## 111	414615873	4	1	5	2	4	2	1	1	7
## 112	416424077	3	2	3	2	2	2	1	5	1
## 113	412331497	1	1	6	1	1	2	1	3	1
## 114	412298157	1	1	5	2	1	2	1	1	2
## 115	415899191	2	1	2	1	1	2	5	1	4
## 116	414349046	3	2	3	2	1	2	7	5	7
## 117	415217338	3	2	6	2	4	2	1	5	1
## 118	412355022	3	2	2	NA	1	2	5	1	6
## 119	417616011	2	1	2	1	1	2	1	1	7
## 120	418474316	4	2	3	1	4	2	1	5	3
## 121	415300474	4	2	3	2	3	2	1	1	2
## 122	420344153	3	1	5	2	7	2	8	3	4
## 123	413365248	3	1	3	2	1	2	1	4	7
## 124	414591170	2	2	2	NA	2	2	1	1	2

## 125	412330972	3	1	5	2	1	2	5	1	6
## 126	415906201	2	1	2	2	1	2	6	1	2
## 127	417080032	3	1	3	2	1	2	5	1	7
## 128	412331705	4	1	3	2	1	2	1	1	5
## 129	413192261	3	2	4	2	1	2	5	5	7
## 130	413404307	3	2	5	1	1	2	1	1	2
## 131	414342904	2	2	3	NA	3	2	8	5	3
## 132	415474048	3	2	2	2	1	2	5	1	2
## 133	414371249	3	2	2	2	1	2	2	1	1
## 134	416578010	3	1	2	2	1	2	5	1	7
## 135	414136190	1	1	2	2	1	2	1	4	3
## 136	418962298	2	1	2	NA	1	2	1	5	3
## 137	418067510	2	1	6	2	1	2	5	5	3
## 138	416860489	3	2	3	2	1	2	1	1	7
## 139	411879022	1	2	5	1	1	2	1	1	4
## 140	412240141	1	1	6	2	1	2	1	1	3
## 141	412888607	1	2	2	2	1	1	6	1	2
## 142	415231154	4	1	3	1	2	1	1	5	3
## 143	416428983	3	2	2	2	1	2	4	1	7
## 144	414619068	3	1	3	NA	1	2	8	5	4
## 145	412307317	3	2	3	2	1	2	5	1	5
## 146	416244174	1	2	6	1	2	2	1	6	3
## 147	412991840	3	1	4	1	1	2	1	1	4
## 148	415856200	2	1	4	2	1	2	1	6	1
## 149	412307472	2	2	4	2	7	2	6	6	1
## 150	413410045	2	2	5	1	1	2	1	1	3
## 151	412080189	3	1	6	2	1	2	1	1	1
## 152	418065455	3	1	6	2	1	2	5	3	5
## 153	412324562	2	2	2	2	1	2	5	1	4
## 154	412345769	3	1	6	2	1	2	5	1	4
## 155	417049513	4	2	2	2	6	2	5	1	1
## 156	413291660	3	1	4	2	1	2	6	1	5
## 157	412424146	1	2	2	2	1	2	1	5	7
## 158	414327906	2	2	1	2	1	2	5	5	6
## 159	417351589	1	1	6	1	1	2	1	1	4
## 160	410750488	2	2	4	1	1	2	2	1	2
## 161	412949822	2	1	2	2	1	2	1	1	7
## 162	412297426	3	2	6	2	1	2	5	1	5
## 163	420315117	3	1	5	2	1	2	1	1	2
## 164	420128803	4	2	6	2	1	2	5	1	4
## 165	413061899	3	2	2	2	1	2	2	4	7
## 166	412925780	3	2	5	2	1	2	1	1	6
## 167	416823935	4	1	2	2	1	2	1	1	1
## 168	413160976	3	1	6	1	1	2	1	1	2
## 169	418890934	3	1	3	2	1	1	3	3	3
## 170	417080152	3	1	6	2	1	2	4	1	3
## 171	412278455	4	2	2	2	1	2	5	3	2
## 172	411859566	2	2	6	1	1	2	2	1	1
## 173	413105696	3	1	5	1	3	2	1	1	2
## 174	419282250	4	2	5	2	3	2	1	3	2
## 175	420160112	1	1	3	2	1	2	2	1	4
## 176	412855690	1	2	2	2	1	1	7	1	1
## 177	412339946	2	2	1	2	1	2	7	1	7
## 178	416161318	3	2	6	1	4	2	1	5	4

## 179	417892910	3	2	2	NA	1	2	7	1	3
## 180	414199241	2	2	2	2	1	2	5	4	1
## 181	412345958	3	2	5	2	3	2	9	6	1
## 182	411854243	3	1	3	2	1	2	1	1	4
## 183	415752437	1	1	2	2	1	2	5	1	7
## 184	418065692	2	1	3	2	1	2	6	5	2
## 185	413062346	3	1	1	2	1	2	2	3	4
## 186	416382952	3	2	1	NA	2	2	4	5	1
## 187	412274529	2	1	5	1	1	2	1	1	3
## 188	410770153	1	1	6	2	1	2	5	1	1
## 189	416832977	1	1	5	2	4	2	1	1	4
## 190	414331667	4	2	5	NA	1	2	1	1	1
## 191	416257159	4	2	6	1	4	2	1	5	1
## 192	412273773	2	2	3	NA	4	2	8	5	2
## 193	412022635	3	1	5	2	1	2	5	1	7
## 194	415802716	4	2	2	2	3	2	4	1	3
## 195	412275442	4	2	5	2	1	2	2	1	1
## 196	414223923	1	2	2	2	1	2	7	6	4
## 197	420231612	3	1	4	2	1	2	5	1	7
## 198	410941943	3	1	6	2	1	2	1	1	3
## 199	416974464	2	2	2	2	1	2	1	1	2
## 200	419531882	3	1	5	1	3	2	1	1	3
## 201	410746773	3	1	5	2	1	2	2	3	7
## 202	410904167	2	1	5	1	1	2	1	1	7
## 203	417352647	4	1	5	2	1	2	1	1	2
## 204	415242245	2	2	3	NA	2	2	1	5	1
## 205	414431857	3	1	5	2	3	2	1	5	4
## 206	413066308	1	1	5	2	7	2	2	1	4
## 207	418197276	3	1	2	2	1	2	1	1	5
## 208	419611863	2	2	3	1	6	2	2	6	4
## 209	414518088	3	2	3	2	2	2	2	4	1
## 210	412954060	2	2	3	2	1	2	5	1	5
## 211	414195665	1	2	5	2	1	2	1	5	1
## 212	412369020	4	1	2	2	1	2	1	3	6
## 213	417615808	4	2	4	1	1	1	2	1	1
## 214	412306675	2	1	5	2	1	2	1	1	1
## 215	412899054	4	1	5	1	1	2	1	3	3
## 216	417130388	3	2	3	1	3	2	1	6	4
## 217	415325555	2	2	6	2	1	2	5	1	1
## 218	412873680	1	2	4	1	1	2	7	5	2
## 219	416553786	2	1	5	2	3	2	1	1	2
## 220	418251432	3	1	6	1	1	2	1	3	3
## 221	410940752	4	2	3	2	1	2	7	1	7
## 222	418299009	3	1	5	1	3	2	6	1	1
## 223	415924214	3	2	2	NA	1	2	1	5	6
## 224	414634994	3	2	1	2	1	2	6	5	4
## 225	415949531	3	1	2	NA	2	2	3	2	4
## 226	419225499	2	2	5	1	1	2	6	1	5
## 227	419521901	1	1	2	NA	1	2	1	5	6
## 228	412423118	4	2	3	2	1	2	1	3	1
## 229	412957235	4	1	3	2	1	2	5	5	1
## 230	419421301	4	1	2	NA	1	2	1	5	1
## 231	413491614	1	2	6	2	1	2	1	5	1
## 232	417353362	3	1	6	2	1	2	5	1	7

## 233	413621928	1	2	5	1	1	2	1	4	4
## 234	415545619	4	1	3	NA	1	2	2	3	7
## 235	412354541	1	2	2	1	1	2	2	5	1
## 236	413580580	3	1	6	2	4	2	1	1	5
## 237	412341718	4	1	6	2	1	2	1	1	1
## 238	412468723	3	2	6	2	2	2	1	1	1
## 239	412936605	3	2	2	2	1	2	2	1	7
## 240	412297019	1	2	3	2	1	2	5	1	3
## 241	420170366	3	2	6	1	1	2	1	5	1
## 242	420291206	4	1	3	2	2	2	4	5	2
## 243	417928575	3	2	5	NA	3	2	7	1	2
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## 245	410750912	1	1	5	1	1	2	1	5	7
## 246	412448126	3	2	5	2	1	2	7	1	6
## 247	416204318	1	1	2	2	1	2	5	3	6
## 248	412506714	2	1	5	2	1	2	1	1	3
## 249	412872660	4	2	5	2	1	2	4	1	7
## 250	413121467	1	2	5	1	1	2	1	1	3
## 251	412319708	2	2	5	2	1	2	5	3	1
## 252	417181768	3	2	2	2	1	2	5	1	3
## 253	412933152	4	1	5	2	1	2	1	1	1
## 254	414383640	1	1	2	NA	1	2	4	5	3
## 255	413804303	4	2	4	2	1	2	5	4	7
## 256	412540323	3	1	3	2	1	2	6	1	5
## 257	414468174	1	2	3	NA	1	2	8	5	6
## 258	420259256	2	2	2	2	1	2	1	1	4
## 259	412943582	4	1	2	2	1	2	5	1	7
## 260	410934387	2	2	4	2	1	2	1	3	2
## 261	412452848	4	1	2	2	1	2	5	1	5
## 262	412893029	3	2	6	1	1	2	1	5	1
## 263	412350404	3	2	6	2	1	2	6	4	4
## 264	416369140	3	1	2	2	1	2	5	3	5
## 265	416860151	2	2	4	1	1	2	1	1	1
## 266	412269951	1	2	6	2	1	2	1	1	1
## 267	414160692	1	1	2	NA	2	2	2	5	3
## 268	414473863	2	2	2	2	1	2	5	1	7
## 269	414332664	3	1	3	2	2	2	4	5	2
## 270	412940299	1	2	3	2	3	2	1	3	2
## 271	412512064	3	1	3	1	1	2	5	1	5
## 272	414227855	1	2	3	1	1	2	1	1	2
## 273	414365698	1	2	3	1	1	2	1	5	7
## 274	412339519	1	2	5	1	1	2	1	1	2
## 275	417181683	2	2	2	2	1	2	5	1	6
## 276	415324770	1	2	3	1	1	2	8	5	2
## 277	413314979	1	1	4	2	1	2	2	1	7
## 278	412301293	1	1	5	2	1	2	5	1	1
## 279	416412572	2	1	5	2	1	2	1	1	5
## 280	416824499	4	1	2	2	1	2	1	1	5
## 281	413622202	3	2	5	1	2	2	1	1	1
## 282	412013435	4	1	2	2	1	2	6	3	1
## 283	414543500	3	2	5	2	1	2	1	5	1
## 284	412519845	3	1	4	1	3	2	6	5	7
## 285	411879915	3	2	6	2	1	2	7	1	7
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## 287	412166647	4	2	5	1	1	2	2	5	3
## 288	413313070	3	1	1	2	1	2	4	5	4
## 289	413895996	3	2	4	2	1	2	1	1	7
## 290	419798396	1	1	2	2	1	2	6	6	5
## 291	412291969	4	1	3	2	1	2	4	5	6
## 292	412303998	1	2	3	2	1	2	5	1	4
## 293	413126859	1	2	5	1	4	2	6	5	4
## 294	413497817	4	2	3	2	1	2	1	1	6
## 295	412374007	2	2	5	2	1	2	1	1	1
## 296	412012728	3	1	6	2	1	2	2	1	6
## 297	413672292	4	2	5	2	1	2	1	5	5
## 298	410904812	3	1	5	2	1	2	9	4	4
## 299	412374952	3	1	3	2	1	2	6	3	5
## 300	415183210	3	2	5	2	2	2	4	5	1
## 301	414212783	1	1	2	2	1	2	5	1	7
## 302	410689586	4	1	5	2	1	2	1	1	3
## 303	414281289	2	2	2	2	1	2	5	1	6
## 304	414316363	3	2	2	2	1	2	7	1	7
## 305	412961152	2	1	5	1	1	2	1	5	4
## 306	417015985	3	2	2	2	1	2	5	5	3
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## 308	415304612	2	2	2	2	1	2	7	5	1
## 309	417690718	4	2	3	2	3	2	1	5	5
## 310	417080826	1	1	5	2	1	2	1	1	5
## 311	417617392	3	1	6	2	1	2	5	1	1
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## 313	413458433	2	2	2	2	1	2	1	1	1
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## 315	412879923	3	1	2	2	1	2	5	1	7
## 316	412903603	3	1	5	2	1	2	1	5	7
## 317	415194074	2	2	4	NA	1	2	2	5	2
## 318	413204278	3	2	2	2	1	2	4	6	1
## 319	413947690	3	1	4	2	2	2	5	1	1
## 320	417080443	4	1	2	2	1	2	5	1	7
## 321	414191558	3	2	2	2	1	2	7	1	3
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## 323	414755789	4	2	2	2	1	2	7	6	5
## 324	414149158	4	1	3	2	1	2	1	1	6
## 325	413941833	2	1	2	2	1	2	5	1	5
## 326	411887164	4	2	3	2	1	2	1	5	7
## 327	415717357	1	1	5	2	1	2	1	1	6
## 328	417835248	2	1	5	2	1	2	4	1	5
## 329	412282737	3	1	3	2	1	2	6	1	5
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## 332	415198395	2	1	4	1	2	2	1	5	1
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## 335	418874286	4	2	5	1	1	2	1	1	2
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## 337	415341316	4	1	6	2	1	2	1	5	1
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## 339	414220141	3	1	3	2	3	2	1	5	4
## 340	412765525	1	2	5	2	1	2	1	1	6

## 341	414161307	3	2	6	1	2	1	1	1	5
## 342	412866476	3	2	2	NA	1	2	2	1	6
## 343	420210515	4	1	3	2	1	2	1	1	4
## 344	414231445	3	2	3	1	1	2	6	5	1
## 345	412899005	3	2	5	2	1	2	5	1	4
## 346	419499751	3	1	2	NA	1	2	4	5	2
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## 348	412881090	4	2	2	2	1	2	2	5	4
## 349	415705586	3	2	5	2	1	2	5	3	7
## 350	412920581	2	1	3	2	1	2	8	5	7
## 351	412980917	3	2	3	2	1	2	5	3	7
## 352	418065191	4	1	6	2	1	2	1	1	7
## 353	413041959	2	2	5	1	3	2	1	5	2
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## 355	415450991	1	2	5	2	1	2	2	1	6
## 356	412518090	3	2	2	2	1	2	7	1	7
## 357	415226708	3	2	2	NA	1	2	8	5	2
## 358	414403073	3	2	2	2	1	2	5	4	4
## 359	417079656	4	1	4	2	1	2	5	1	7
## 360	413031424	3	1	2	2	1	2	1	1	5
## 361	414388011	2	2	2	2	1	2	5	1	2
## 362	414725584	1	2	4	2	3	2	1	6	3
## 363	414205974	2	2	3	1	2	2	1	6	1
## 364	415377411	3	2	6	1	1	2	1	1	7
## 365	417077729	1	1	5	2	3	2	1	5	4
## 366	413000721	3	2	6	1	1	2	1	1	3
## 367	415504972	3	2	2	2	5	2	1	5	2
## 368	414255330	4	2	5	1	2	2	7	5	1
## 369	411814710	3	2	4	2	2	2	4	3	1
## 370	415005936	2	2	5	NA	2	2	2	1	3
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## 377	420241364	3	1	6	2	1	2	1	1	3
## 378	420180782	1	2	3	1	1	2	2	5	1
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## 380	417351569	1	1	6	2	1	2	1	2	1
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## 384	417615096	4	1	2	NA	2	2	1	5	3
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## 387	413034618	3	2	2	2	1	2	5	6	2
## 388	412874958	4	2	5	2	1	2	2	1	2
## 389	414161370	3	2	2	2	1	2	5	1	1
## 390	410535466	3	2	3	1	1	2	2	1	1
## 391	412245935	3	2	5	2	2	2	1	1	1
## 392	412911479	3	1	4	2	1	2	6	3	3
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## 394	411869164	4	2	1	2	1	2	5	3	5

## 395	415231066	3	2	5	2	1	2	1	5	6
## 396	412992781	1	1	2	2	1	2	5	1	7
## 397	420272589	3	1	6	2	1	2	1	1	1
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## 400	416395975	1	1	2	2	1	2	1	1	7
## 401	413145070	2	1	2	2	1	2	2	4	1
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## 403	418249092	3	1	6	1	1	2	1	1	5
## 404	415222309	2	2	2	2	1	2	1	5	4
## 405	412899039	2	1	5	2	1	2	1	5	3
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## 411	411800829	2	2	5	2	1	2	7	1	2
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## 417	412311035	3	1	6	1	1	2	7	1	3
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## 419	412374703	2	2	3	1	1	2	2	6	1
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## 426	413400296	3	2	3	1	1	2	1	3	7
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## 431	413554064	3	2	5	2	1	2	5	4	5
## 432	413409413	3	2	5	2	1	2	7	1	3
## 433	417000795	3	2	2	2	1	2	5	3	7
## 434	412736795	4	2	5	2	1	2	1	1	2
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## 443	417618078	2	1	3	2	1	2	2	1	7
## 444	414311569	3	1	3	2	2	2	1	5	2
## 445	414203529	2	2	2	2	1	2	5	1	7
## 446	413276863	2	2	5	2	1	2	2	1	1
## 447	412656741	4	2	4	2	1	2	7	1	7
## 448	416051768	4	1	2	2	1	2	5	1	4

## 449	411666091	4	2	3	2	1	2	1	1	7
## 450	412286683	1	1	6	1	5	2	1	1	6
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## 452	410656606	3	2	5	2	1	2	1	1	7
## 453	414196311	3	2	4	2	3	2	1	1	2
## 454	417619944	1	1	3	2	1	2	5	4	7
## 455	413836838	4	2	3	2	1	2	2	2	1
## 456	414223724	2	1	3	NA	3	2	2	5	7
## 457	412880171	4	2	5	2	1	2	1	1	1
## 458	416801919	3	1	5	2	3	2	1	5	6
## 459	415483714	1	2	2	NA	2	1	1	1	1
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## 461	420191229	2	1	3	2	1	2	4	2	4
## 462	412334398	3	2	6	2	1	2	5	5	1
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## 464	415267229	3	2	3	1	1	2	2	5	7
## 465	412044645	4	2	4	2	1	2	6	6	3
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## 467	413081505	4	2	3	2	1	2	6	5	1
## 468	414169770	4	2	5	2	1	2	1	1	2
## 469	413982519	2	1	2	2	1	2	1	1	5
## 470	417077403	3	2	5	2	1	1	1	1	1
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## 474	412452422	4	2	3	2	1	2	4	4	1
## 475	415998497	1	1	3	NA	1	2	1	5	1
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## 479	410742991	4	2	5	2	1	2	6	4	1
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## 489	416916992	1	1	4	NA	3	2	1	5	7
## 490	417080366	2	1	6	2	1	2	5	1	7
## 491	414434758	4	1	5	2	2	2	1	1	1
## 492	412285799	3	2	2	2	1	2	7	1	1
## 493	417841446	1	2	2	NA	1	2	7	3	4
## 494	415203324	3	2	2	2	1	2	2	1	2
## 495	413112421	3	2	6	1	6	2	1	1	4
## 496	410661738	3	1	5	1	1	2	8	5	3
## 497	413440916	3	2	3	2	1	2	5	1	3
## 498	414281407	4	1	3	2	2	2	1	1	2
## 499	417618233	4	1	6	2	1	2	5	6	1
## 500	413835774	1	2	5	1	1	2	1	1	4
## 501	417081276	3	1	6	2	1	2	1	3	4
## 502	417080173	4	1	5	NA	1	2	5	1	6

## 503	420046397	3	1	6	2	6	1	9	1	5
## 504	417299439	3	2	2	2	2	1	1	1	7
## 505	412292805	3	2	3	2	1	2	5	3	1
## 506	420130919	2	1	6	2	1	2	1	1	7
## 507	418941207	3	2	5	1	1	2	1	3	2
## 508	412888236	3	2	2	2	1	2	7	1	7
## 509	414756106	2	1	5	NA	1	2	1	5	3
## 510	417835860	3	1	6	NA	1	2	1	5	1
## 511	412480417	2	2	3	2	1	2	1	1	1
## 512	412374928	3	1	5	2	1	2	5	1	7
## 513	412335974	2	1	3	2	1	2	5	1	3
## 514	416428647	1	2	1	NA	2	2	2	5	1
## 515	413703745	2	2	2	2	7	2	5	1	7
## 516	411983939	1	2	3	2	1	2	5	5	1
## 517	410747552	2	2	6	1	1	2	1	5	2
## 518	414937019	3	1	3	2	3	2	2	5	3
## 519	416172727	3	1	2	2	1	2	5	1	7
## 520	414609001	4	2	2	2	1	2	1	1	4
## 521	417616583	2	2	4	1	3	2	1	6	7
## 522	412243434	3	1	5	1	1	2	1	5	1
## 523	413529185	2	2	2	2	1	2	1	3	1
## 524	414260258	4	2	6	1	7	2	1	1	4
## 525	413152707	2	2	3	1	1	2	1	1	7
## 526	413134701	1	2	1	2	2	2	5	5	1
## 527	418251869	2	1	5	1	1	2	1	1	1
## 528	413916986	2	2	2	2	1	2	6	1	7
## 529	414305601	3	2	2	1	1	2	2	2	6
## 530	417351561	1	1	6	2	1	2	5	1	5
## 531	414342012	3	2	5	1	1	2	7	5	3
## 532	416223768	3	2	2	NA	1	2	8	5	3
## 533	414359691	3	2	3	2	1	2	4	5	2
## 534	413873017	3	2	2	2	1	2	4	5	7
## 535	415967795	3	1	3	NA	1	2	8	5	2
## 536	413120186	4	2	5	2	1	2	2	5	3
## 537	417182725	3	2	2	2	1	2	4	5	4
## 538	415451641	2	2	6	1	1	2	1	1	1
## 539	418064298	3	1	5	2	1	2	5	1	7
## 540	410746326	2	1	4	2	1	2	4	5	5
## 541	415258128	1	2	5	1	1	2	1	5	1
## 542	413840545	3	2	4	2	1	2	6	1	7
## 543	416340549	2	2	2	2	1	2	5	1	7
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## 545	414441761	1	2	2	NA	1	2	1	5	7
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## 548	413669980	1	2	2	2	1	2	2	1	6
## 549	413065258	3	2	5	1	1	2	7	1	1
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## 551	412893380	3	1	3	2	1	2	1	1	2
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## 555	414050590	2	2	5	1	1	2	1	5	1
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## 557	414573262	2	2	2	2	1	2	7	1	1
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## 559	412903521	4	2	2	2	1	2	7	5	2
## 560	414179372	3	1	2	2	1	2	6	1	7
## 561	413123186	3	1	2	2	1	2	5	5	6
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## 565	412898429	2	1	3	2	1	2	2	5	4
## 566	414387768	3	2	5	2	3	2	7	1	1
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## 569	411986901	2	1	3	2	1	2	5	1	4
## 570	412338999	2	2	3	1	1	2	1	1	7
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## 576	412529540	3	2	2	2	1	2	1	1	7
## 577	412469548	1	1	6	2	1	2	5	3	1
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## 586	414290349	3	1	3	1	2	1	4	5	4
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## 594	412954047	1	2	3	2	1	2	5	1	7
## 595	417080384	2	1	6	2	1	2	5	1	6
## 596	415000632	2	1	3	NA	4	2	8	5	6
## 597	417619271	3	1	6	2	1	2	9	1	3
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## 605	417831371	4	1	5	2	3	2	1	1	4
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## 607	412335096	3	1	2	2	1	2	5	3	5
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## 610	412221321	3	2	2	2	1	2	2	1	6

## 611	420281741	1	1	2	NA	1	2	8	5	3
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## 617	414726069	1	1	2	2	1	2	5	4	5
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## 626	411632326	4	1	2	2	2	2	1	3	5
## 627	417613667	2	1	3	2	6	2	5	5	1
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## 629	412339627	1	2	5	1	2	2	1	3	3
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## 633	414366825	3	2	2	2	2	2	7	1	1
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## 635	412364351	4	2	6	1	1	2	1	3	1
## 636	416243567	1	1	3	NA	3	2	1	3	3
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## 639	413109095	2	2	6	1	1	2	1	6	4
## 640	412297643	2	2	6	1	1	2	1	5	2
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## 642	416247510	3	2	2	2	1	2	5	1	7
## 643	414321712	3	2	2	2	1	2	1	1	7
## 644	412951766	4	1	3	2	1	2	1	1	7
## 645	415308143	4	2	6	2	1	2	7	1	4
## 646	412222344	2	1	6	2	1	2	1	1	1
## 647	416383188	3	2	3	NA	3	2	8	5	2
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## 650	412003389	3	2	5	2	7	2	5	4	1
## 651	417081402	1	1	4	2	1	2	5	1	1
## 652	417836401	2	1	3	2	1	2	5	3	5
## 653	410922896	2	1	6	2	1	2	5	1	1
## 654	412262917	4	1	5	1	1	2	1	1	5
## 655	413610200	2	2	5	NA	1	2	1	5	1
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## 657	412299630	1	1	6	2	1	2	5	5	4
## 658	414451062	4	1	3	2	3	2	5	3	5
## 659	416547815	1	2	5	1	1	1	1	1	2
## 660	415611704	4	2	5	2	4	2	1	1	1
## 661	412291429	4	2	3	2	1	2	5	1	5
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## 665	417841135	3	2	2	1	1	2	7	1	4
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## 694	412903375	3	2	3	2	1	2	8	5	1
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## 697	412976130	1	1	2	2	1	2	5	1	5
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## 700	415194247	1	2	2	NA	1	2	7	1	4
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## 704	412984256	3	2	5	2	1	2	1	1	6
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## 716	418065405	4	1	3	2	7	2	5	1	5
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## 721	415730095	3	1	2	2	1	2	5	4	1
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## 761	412894665	1	2	6	2	1	2	2	1	2
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## 770	412978406	1	1	3	2	1	2	5	1	2
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## 998	2	3	2	1	2	2	1
## 999	2	2	2	1	1	1	1
## 1000	3	1	1	1	1	1	1

Problem 8

Use a frequency table command to show how many 0s, 1s, and 2s are in the column you created in Problem 7.

Put your code and solution here:

#Put your code here, then delete this commented line before submission. Don't modify the setup code for

Problem 9

Again using all rows in the original dataset, use summarise and group_by to calculate the average (mean) job of approval for President Trump in each of the four regions listed in the “region” column.

Put your code and solution here:

#Put your code here, then delete this commented line before submission. Don't modify the setup code for

Problem 10

Again start with all rows in the original dataset, use summarise() to create a summary table for survey respondents who are not investors and who have an annual family income of between \$40,000 and \$119,999 per year. The table should have the mean, median and standard deviations for the importance of religion column.

Put your code and solution here:

#Put your code here, then delete this commented line before submission. Don't modify the setup code for

Problem 11

Use kable() and the summarise() function to create a table with one row and three columns that provides the mean, median, and standard deviation for the column named faminc_new in the survey data.

Put your code and solution here:

#Put your code here, then delete this commented line before submission. Don't modify the setup code for

Problem 12

With the survey data, use `qplot()` to make a histogram of the column named `pid7`. Change the x-axis label to “Seven Point Party ID” and the y-axis label to “Count”.

Note: you can ignore the “`stat_bin()`” message that R generates when you draw this. The setup for the code chunk will suppress the message.

Put your code and solution here:

```
#Put your code here, then delete this commented line before submission. Don't modify the setup code for
```