

Feedback — Week 1 Quiz

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Thank you. Your submission for this quiz was received.

You submitted this quiz on **Sat 7 Mar 2015 12:35 PM SGT**. You got a score of **15.00** out of **15.00**.

Question 1

The American Community Survey distributes downloadable data about United States communities. Download the 2006 microdata survey about housing for the state of Idaho using `download.file()` from here:

<https://d396qusza40orc.cloudfront.net/getdata%2Fdata%2Fss06hid.csv>

and load the data into R. The code book, describing the variable names is here:

<https://d396qusza40orc.cloudfront.net/getdata%2Fdata%2FPUMSDDataDict06.pdf>

How many properties are worth \$1,000,000 or more?

Your Answer		Score	Explanation
<input checked="" type="radio"/> 53	✓	3.00	
<input type="radio"/> 24			
<input type="radio"/> 31			
<input type="radio"/> 159			
Total		3.00 / 3.00	

Question 2

Use the data you loaded from Question 1. Consider the variable FES in the code book. Which of

the "tidy data" principles does this variable violate?

Your Answer	Score	Explanation
<input type="radio"/> Each tidy data table contains information about only one type of observation.		
<input type="radio"/> Tidy data has one observation per row.		
<input type="radio"/> Tidy data has no missing values.		
<input checked="" type="radio"/> Tidy data has one variable per column.	✓ 3.00	
Total	3.00 / 3.00	

Question 3

Download the Excel spreadsheet on Natural Gas Aquisition Program here:

https://d396qusza40orc.cloudfront.net/getdata%2Fdata%2FDATA.gov_NGAP.xlsx

Read rows 18-23 and columns 7-15 into R and assign the result to a variable called:

dat

What is the value of:

`sum(dat$Zip*dat$Ext, na.rm=T)`

(original data source: <http://catalog.data.gov/dataset/natural-gas-acquisition-program>)

Your Answer	Score	Explanation
<input type="radio"/> 33544718		
<input checked="" type="radio"/> 36534720	✓ 3.00	
<input type="radio"/> 338924		
<input type="radio"/> 0		
Total	3.00 / 3.00	

Question 4

Read the XML data on Baltimore restaurants from here:

<https://d396qusza40orc.cloudfront.net/getdata%2Fdata%2Frestaurants.xml>

How many restaurants have zipcode 21231?

Your Answer	Score	Explanation
<input type="radio"/> 28		
<input type="radio"/> 17		
<input checked="" type="radio"/> 127	✓ 3.00	
<input type="radio"/> 156		
Total	3.00 / 3.00	

Question 5

The American Community Survey distributes downloadable data about United States communities. Download the 2006 microdata survey about housing for the state of Idaho using `download.file()` from here:

<https://d396qusza40orc.cloudfront.net/getdata%2Fdata%2Fss06pid.csv>

using the `fread()` command load the data into an R object

DT

Which of the following is the fastest way to calculate the average value of the variable

pwgtp15

broken down by sex using the `data.table` package?

Your Answer	Score	Explanation
<input type="radio"/> <code>apply(split(DT\$pwgtp15,DT\$SEX),mean)</code>		
<input type="radio"/> <code>mean(DT\$pwgtp15,by=DT\$SEX)</code>		

☐ `mean(DT[DT$SEX==1,]$pwgtp15);
mean(DT[DT$SEX==2,]$pwgtp15)`

☐ `tapply(DT$pwgtp15,DT$SEX,mean)`

☒ `DT[,mean(pwgtp15),by=SEX]`  3.00

☐ `rowMeans(DT)[DT$SEX==1]; rowMeans(DT)[DT$SEX==2]`

Total 3.00 /
3.00