

The "Data Science" Specialization

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You submitted this quiz on **Mon 11 May 2015 7:24 AM PDT**. 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%2FPUMSDict06.pdf>

Create a logical vector that identifies the households on greater than 10 acres who sold more than \$10,000 worth of agriculture products. Assign that logical vector to the variable agricultureLogical. Apply the which() function like this to identify the rows of the data frame where the logical vector is TRUE. which(agricultureLogical) What are the first 3 values that result?

Your Answer	Score	Explanation
<input type="radio"/> 25, 36, 45		
<input type="radio"/> 59, 460, 474		
<input checked="" type="radio"/> 125, 238,262	✓	3.00
<input type="radio"/> 236, 238, 262		
Total	3.00 / 3.00	

Question 2

Using the jpeg package read in the following picture of your instructor into R

<https://d396qusza40orc.cloudfront.net/getdata%2Fjeff.jpg>

Use the parameter native=TRUE. What are the 30th and 80th quantiles of the resulting data? (some Linux systems may produce an answer 638 different for the 30th quantile)

Your Answer	Score	Explanation
<input type="radio"/> -10904118 -10575416		
<input checked="" type="radio"/> -15259150 -10575416	✓ 3.00	
<input type="radio"/> -14191406 -10904118		
<input type="radio"/> -15259150 -594524		
Total	3.00 / 3.00	

Question 3

Load the Gross Domestic Product data for the 190 ranked countries in this data set:

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

Load the educational data from this data set:

https://d396qusza40orc.cloudfront.net/getdata%2Fdata%2FEDSTATS_Country.csv

Match the data based on the country shortcode. How many of the IDs match? Sort the data frame in descending order by GDP rank (so United States is last). What is the 13th country in the resulting data frame?

Original data sources:

<http://data.worldbank.org/data-catalog/GDP-ranking-table>

<http://data.worldbank.org/data-catalog/ed-stats>

Your Answer	Score	Explanation
<input type="radio"/> 234 matches, 13th country is Spain		
<input type="radio"/> 189 matches, 13th country is Spain		
<input type="radio"/> 190 matches, 13th country is Spain		
<input checked="" type="radio"/> 189 matches, 13th country is St. Kitts and Nevis	✓ 3.00	
<input type="radio"/> 190 matches, 13th country is St. Kitts and Nevis		
<input type="radio"/> 234 matches, 13th country is St. Kitts and Nevis		
Total	3.00 / 3.00	

Question 4

What is the average GDP ranking for the "High income: OECD" and "High income: nonOECD" group?

Your Answer	Score	Explanation
<input type="radio"/> 23.966667, 30.91304		
<input type="radio"/> 23, 30		
<input checked="" type="radio"/> 32.966667, 91.91304	✓ 3.00	
<input type="radio"/> 23, 45		
<input type="radio"/> 30, 37		
<input type="radio"/> 133.72973, 32.966667		
Total	3.00 / 3.00	

Question 5

Cut the GDP ranking into 5 separate quantile groups. Make a table versus Income.Group. How many countries are Lower middle income but among the 38 nations with highest GDP?

Your Answer	Score	Explanation
<input type="radio"/> 0		
<input type="radio"/> 12		
<input checked="" type="radio"/> 5	✓ 3.00	
<input type="radio"/> 13		
Total	3.00 / 3.00	

