Programming Assignment 1 Quiz

Help

The **due date** for this quiz is **Mon 30 Sep 2013 8:59 PM PDT (UTC -0700)**.

Introduction

This first programming assignment will check your ability to execute basic operations on objects in R. The programming assignment itself will be graded via a quiz, but you will need to load a dataset into R and do some basic manipulations in order to answer the questions on the quiz.

You can download a PDF file of the quiz questions to look at as you work on the assignment. This way you do not have to take the quiz in order to work on the assignment. However, you must take the quiz online to get credit!

Note: The answer choices on the actual quiz you take may look slightly different from the PDF file because the answers are randomized. However, the questions themselves will be identical.

Data

The zip file containing the data for this assignment can be downloaded here:

- hw1_data.zip [1.4K]

For this assignment you will need to unzip this file in your working directory.

Grading

This homework will be graded via a quiz. Please goto the Programming Assignment 1 Quiz on the Quizzes page and answer all the questions there. DO NOT go to the "assignments list" page as the instructions above indicate as you will not be able to submit the homework there. You must submit the quiz for this assignment to get credit. This quiz is **in addition to the Week 1 quiz** which covers the lecture material. You do not have to submit any R code for this assignment.

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Question 1

What are the column names of the dataset?

- Ozone, Solar.R, Wind
- Ozone, Solar.R, Wind, Temp, Month, Day
- 1, 2, 3, 4, 5, 6
- Month, Day, Temp, Wind

Question 2

Extract the first 2 rows of the data frame and print them to the console. What does the output look like?

```
  Ozone Solar.R Wind Temp Month Day
1    18     224 13.8   67     9  17
2    NA     258  9.7   81     7  22
```

```
  Ozone Solar.R Wind Temp Month Day
1     9      24 10.9   71     9  14
2    18     131  8.0   76     9  29
```

```
  Ozone Solar.R Wind Temp Month Day
1    41     190  7.4   67     5   1
2    36     118  8.0   72     5   2
```

```
  Ozone Solar.R Wind Temp Month Day
1     7      NA  6.9   74     5  11
2    35     274 10.3   82     7  17
```

Question 3

How many observations (i.e. rows) are in this data frame?

- 160
- 129
- 153
- 45

Question 4

Extract the *last* 2 rows of the data frame and print them to the console. What does the output look like?

```
    Ozone Solar.R Wind Temp Month Day
152    11      44  9.7   62     5  20
153   108     223  8.0   85     7  25
```

```
    Ozone Solar.R Wind Temp Month Day
152    18     131  8.0   76     9  29
153    20     223 11.5   68     9  30
```

```
    Ozone Solar.R Wind Temp Month Day
152    34     307 12.0   66     5  17
153    13      27 10.3   76     9  18
```

```
    Ozone Solar.R Wind Temp Month Day
152    31     244 10.9   78     8  19
153    29     127  9.7   82     6   7
```

Question 5

What is the value of Ozone in the 47th row?

- 34
- 21
- 63
- 18

Question 6

How many missing values are in the Ozone column of this data frame?

- 9
- 43
- 78
- 37

Question 7

What is the mean of the Ozone column in this dataset? Exclude missing values (coded as NA) from this calculation.

- 42.1
- 53.2
- 31.5
- 18.0

Question 8

Extract the subset of rows of the data frame where Ozone values are above 31 and Temp values are above 90. What is the mean of Solar.R in this subset?

- 185.9
- 212.8
- 334.0
- 205.0

Question 9

What is the mean of "Temp" when "Month" is equal to 6?

- 79.1
- 75.3
- 85.6
- 90.2

Question 10

What was the maximum ozone value in the month of May (i.e. Month = 5)?

- 97
- 115
- 18
- 100

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Submit Answers Save Answers

You cannot submit your work until you agree to the Honor Code. Thanks!