



## Quiz 1

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**5/5** points  
earned (100%)

Quiz passed!



1 / 1  
points

1.

Consider the following code for the cars data set

```
1 library(manipulate)
2 myPlot <- function(s) {
3   plot(cars$dist - mean(cars$dist), cars$speed - mean(cars$speed))
4   abline(0, s)
5 }
```

This function plots distance versus speed, each de-meaned and an associated line of slope  $s$ .

Which of the following code will make a manipulate plot that creates a slider for the slope?



```
1 manipulate(myPlot(s), s = slider(0, 2, step = 0.1))
```



**Correct Response**



```
1 manipulate(myPlot, s = slider(0, 2, step = 0.1))
```



```
1 manipulate(myPlot(s), x.s = slider(0, 2, step = 0.1))
```



```
1 manipulate(myPlot(s), slider = x(0, 2, step = 0.1))
```

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points

2.

Which of the following code uses the **rCharts** package to create a sortable and searchable data table for the **airquality** data set? Assume the **rCharts** package and the **airquality** data set have already been loaded into R.



```
1 d <- data.frame(airquality, stringsAsFactors = FALSE)print(d)
```



```
1 airquality
```



```
1 dTable(airquality, sPaginationType = "full_numbers")
```

**Correct Response**

```
1 head(airquality)
```

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points

3.

A basic shiny data product requires:

A **shiny.R** file.A **server.R** file only.A **ui.R** and **server.R** file or a **server.R** file and a directory called **www** containing the relevant html files.**Correct Response**A **ui.R** file only.



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points

4.

What is incorrect about the following syntax in `ui.R`?

```
1 library(shiny)
2 shinyUI(pageWithSidebar(
3   headerPanel("Data science FTW!"),
4   sidebarPanel(
5     h2('Big text')
6     h3('Sidebar')
7   ),
8   mainPanel(
9     h3('Main Panel text')
10  )
11 ))
```

- ☐ The "**Sidebar**" should say "**Sidebar text**".
- ☐ The **h3** command should be an **h2** command.
- ☒ Missing a comma in the sidebar panel

Correct Response

- ☐ The **h2** command has the wrong arguments.



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points

5.

Consider the following code in `ui.R`:

Consider the following code in `ui.R`

```
1 shinyUI(pageWithSidebar(
2   headerPanel("Example plot"),
3   sidebarPanel(
4     sliderInput('mu', 'Guess at the mu', value = 70, min = 60, max = 80, step =
        0.05,) ),
5   mainPanel(
6     plotOutput('newHist')
7   )
8 ))
```

And the following `server.R` code.

```
1 library(UsingR)
2 data(galton)
3
4 shinyServer(
5   function(input, output) {
6     output$myHist <- renderPlot({
7       hist(galton$child, xlab='child height', col='lightblue', main
          ='Histogram')
8       mu <- input$mu
9       lines(c(mu, mu), c(0, 200), col="red", lwd=5)
10      mse <- mean((galton$child - mu)^2)
11      text(63, 150, paste("mu = ", mu))
12      text(63, 140, paste("MSE = ", round(mse, 2)))
13    })
14 )
```

Why isn't it doing what we want?

- ☐ The phrase "Guess at the mu value" should say "mean" instead of "mu"
- ☒ The server.R output name isn't the same as the plotOutput command used in ui.R.



**Correct Response**

- ☐ It should be `mu <- input$mean` in server.R
- ☐ The limits of the slider are set incorrectly and giving an error.

