

## 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), x.s = slider(0, 2, step = 0.1))
```



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



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



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



**Correct Response**



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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 head(airquality)`
- ☐ `1 d <- data.frame(airquality, stringsAsFactors = FALSE)print(d)`
- ☐ `1 airquality`
- ☒ `1 dTable(airquality, sPaginationType = "full_numbers")`

**Correct Response**

---



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points

3.

A basic shiny data product requires:

- ☒ A `ui.R` and `server.R` file or a `A server.R` file and a directory called `www` containing the relevant html files.

**Correct Response**

- ☐ A `ui.R` file only.
- ☐ A `server.R` file only.
- ☐ A `shiny.R` file.



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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 h2 command has the wrong arguments.
- ☐ The h3 command should be an h2 command.
- ☒ Missing a comma in the sidebar panel

**Correct Response**

- ☐ The "Sidebar" should say "Sidebar text".



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points

5.

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 server.R output name isn't the same as the plotOutput command used in ui.R.



**Correct Response**

- ☐ The phrase "Guess at the mu value" should say "mean" instead of "mu"
- ☐ It should be `mu <- input$mean` in server.R
- ☐ The limits of the slider are set incorrectly and giving an error.