

# Feedback — Quiz 1

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You submitted this quiz on **Sun 9 Aug 2015 2:39 PM EDT**. You got a score of **5.00** out of **5.00**.

## Question 1

Consider the following code for the cars data set

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

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?

Your Answer	Score	Explanation
<input type="radio"/> <code>manipulate(myPlot(s), x.s = slider(0, 2, step = 0.1))</code>		
<input type="radio"/> <code>manipulate(myPlot(s), slider = x(0, 2, step = 0.1))</code>		
<input checked="" type="radio"/> <code>manipulate(myPlot(s), s = slider(0, 2, step = 0.1))</code>	✓ 1.00	
<input type="radio"/> <code>manipulate(myPlot, s = slider(0, 2, step = 0.1))</code>		
Total	1.00 / 1.00	

## Question 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.

Your Answer	Score	Explanation
<input checked="" type="radio"/> <code>dTable(airquality, sPaginationType = "full_numbers")</code>	✓ 1.00	

☐ d☐ airquality☐ head(airquality)

Total

1.00 / 1.00

## Question 3

A basic shiny data product requires:

**Your Answer****Score****Explanation**☐ A shiny.R file.☐ A ui.R file only.☐ A server.R file only.☒ A ui.R and server.R file or a A server.R file and a directory called www containing the relevant html files.

✓ 1.00

Total

1.00 /  
1.00

## Question 4

What is incorrect about the followig syntax in ui.R?

```
library(shiny)
shinyUI(pageWithSidebar(
  headerPanel("Data science FTW!"),
  sidebarPanel(
    h2('Big text')
    h3('Sidebar')
  ),
  mainPanel(
    h3('Main Panel text')
  )
))
```

Your Answer	Score	Explanation
<input type="radio"/> The <code>h2</code> command has the wrong arguments.		
<input checked="" type="radio"/> Missing a comma in the sidebar panel	✓ 1.00	
<input type="radio"/> The <code>"Sidebar"</code> should say <code>"Sidebar text"</code> .		
<input type="radio"/> The <code>h3</code> command should be an <code>h2</code> command.		
Total	1.00 / 1.00	

## Question 5

Consider the following code in `ui.R`

```
shinyUI(pageWithSidebar(
  headerPanel("Example plot"),
  sidebarPanel(
    sliderInput('mu', 'Guess at the mu', value = 70, min = 60, max = 80, step = 0.05,)
  ),
  mainPanel(
    plotOutput('newHist')
  )
))
```

And the following `server.R` code.

```
library(UsingR)
data(galton)

shinyServer(
  function(input, output) {
    output$myHist <- renderPlot({
      hist(galton$child, xlab='child height', col='lightblue', main='Histogram')
      mu <- input$mu
      lines(c(mu, mu), c(0, 200), col="red", lwd=5)
      mse <- mean((galton$child - mu)^2)
      text(63, 150, paste("mu = ", mu))
      text(63, 140, paste("MSE = ", round(mse, 2)))
    })
  })
```

```
}  
)
```

Why isn't it doing what we want?

Your Answer	Score	Explanation
<input type="radio"/> The limits of the slider are set incorrectly and giving an error.		
<input type="radio"/> The phrase "Guess at the mu value" should say "mean" instead of "mu"		
<input type="radio"/> It should be <code>mu in server.R</code>		
<input checked="" type="radio"/> The server.R output name isn't the same as the plotOutput command used in ui.R.	✓ 1.00	
Total	1.00 / 1.00	