

Otter Assign for Rmd Test

Chris Pyles

8/3/2020

Otter Assign for Rmd

```
library(testthat)
library(ggplot2)
```

```
## Warning: replacing previous import 'vctrs::data_frame' by 'tibble::data_frame'
## when loading 'dplyr'
```

```
rng_seed <- 42
```

Question 1. Assign x to the smallest prime number.

```
x <- 2 # SOLUTION
```

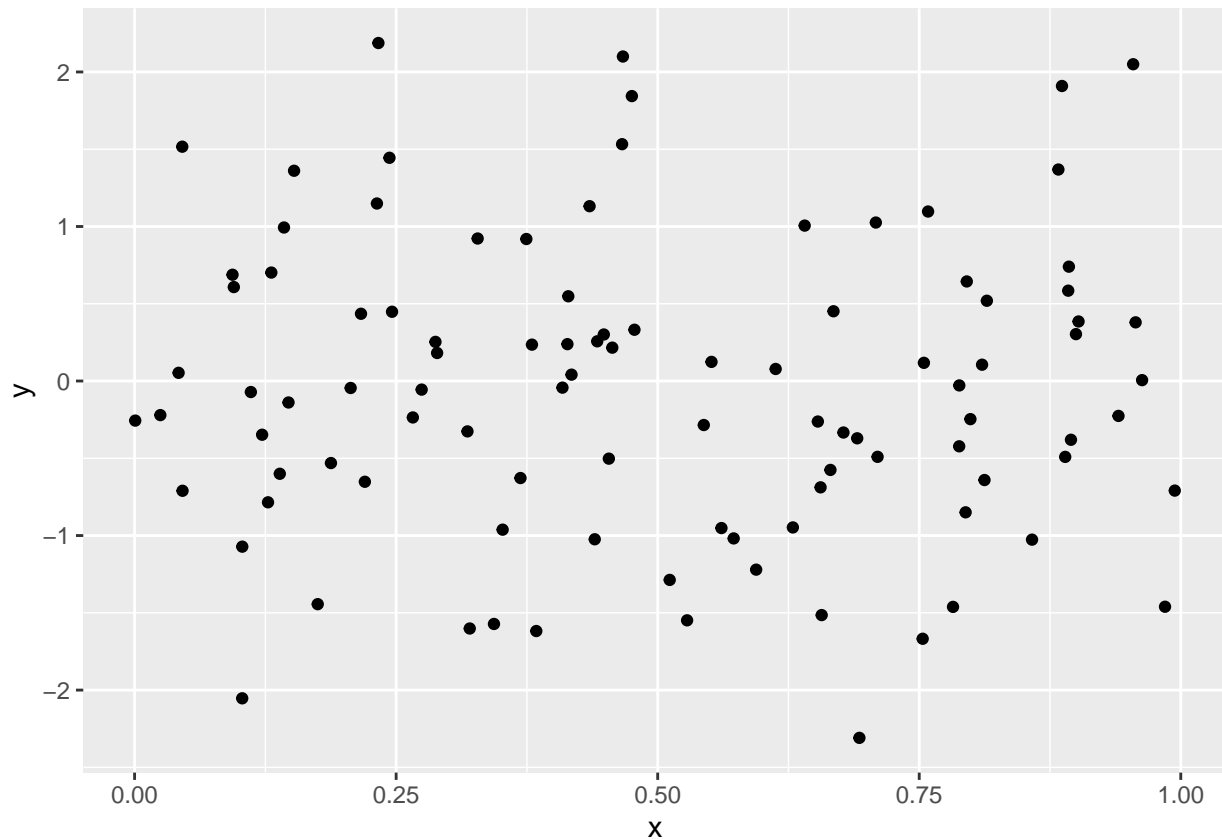
```
. = ottr::check("tests/q1.R")
```

```
## Warning in file(filename, "r"): cannot open file 'tests/q1.R': No such file or
## directory
```

```
## Error in file(filename, "r"): cannot open the connection
```

Question 2. Visualize the answer

```
set.seed(123) # SEED
# BEGIN SOLUTION NO PROMPT
x <- runif(100)
y <- rnorm(100)
data = data.frame(x, y)
ggplot(data, aes(x=x, y=y)) +
  geom_point()
```



```
# END SOLUTION
. = " # BEGIN PROMPT
plt.plot(...);
"; # END PROMPT
```

This cell is not part of a question.

```
y = 3
```

Question 3. Define `square` and assign `nine` to 3 squared.

```
square = function(x) {
  y = x * x # SOLUTION
  return(y) # SOLUTION
}

nine = square(3) # SOLUTION

. = ottr::check("tests/q3.R")
```

```
## Warning in file(filename, "r"): cannot open file 'tests/q3.R': No such file or
## directory
```

```
## Error in file(filename, "r"): cannot open the connection
```

Question 4. What does equilateral mean?

Having equal side lengths.

```
# this isn't part of a question
# it's here to make sure that we get a MD cell above to close the export
```

of question 4

Question 5. Approximate the area and circumference of a circle with radius 3.

```
pi = 3.14
if (TRUE) {
  # BEGIN SOLUTION
  radius = 3
  area = radius * pi * pi
  # END SOLUTION
  print(paste0('A circle with radius', radius, 'has area', area))
}
```

```
## [1] "A circle with radius3has area29.5788"
```

```
circumference = function(r) {
  # BEGIN SOLUTION NO PROMPT
  return(2 * pi * r)
  # END SOLUTION
  " # BEGIN PROMPT
  # Next, define a circumference function.
  "; # END PROMPT
}
```

This question has no tests.

Question 6. Write something

This question has a custom prompt below, so that prompt should be in the output. It also has no solution!

Write your thing here.

some thing

Question 7: What is the answer?

42

Question 8: Test intercell seeding by generating 10 random $N(4, 2)$ numbers.

```
set.seed(42) # SEED
z = rnorm(10, 4, 2) # SOLUTION
z
```

```
## [1] 6.741917 2.870604 4.726257 5.265725 4.808537 3.787751 7.023044 3.810682
```

```
## [9] 8.036847 3.874572
```

```
. = ottr::check("tests/q8.R")
```

```
## Warning in file(filename, "r"): cannot open file 'tests/q8.R': No such file or
## directory
```

```
## Error in file(filename, "r"): cannot open the connection
```

You're done!