

Practice R Questions

For all questions, report the value of the bolded object after running the code below the question.

1. What is the value of **vec** after running the code below?

```
vec <- vector()
for(i in 0:3) {
  vec <- c(vec,2*i)
}
```

2. What is the value of **test** after running the code below?

```
keepgoing <- 1
test <- 1
while(keepgoing == 1) {
  if(test == 1) {
    test = 2
  } else if (test == 2) {
    test = 3
    keepgoing = 0
  } else {
    test = 4
    keepgoing = 0
  }
}
```

3. What is the value of **check** after running the code below?

```
Vector1 = c(1,4,7,0)
Vector2 = c(2,2,3,3)
check = Vector1 <= Vector2
```

4. What is the value of z?

```
z <- c(1,9,3,7,5)
z <- z[z<5]
```

5. What is the value of sol?

```
library("rootSolve")
equations <- function(x) {
  2*x-4
}
start <- 1
answer <- multiroot(equations, start)
sol <- answer$root
```

6. What is the value of y1, what is the value of y2?

```
sum_square <- function(input) {
  output = sum(input^2)
  return(output)
}
x1 <- 5
x2 <- c(1,2,3)
y1 <- sum_square(x1)
y2 <- sum_square(x2)
```