What is the statement to help you to show the help manual of log function?

2. What is the output of the following statement?

```
log(1) [1] 0
```

3. Consider the following statement:

```
a <- 2501L typeof(a) [1] "integer" b<- 2501 typeof(b) [1] "double"
```

What is the data type of a?

4. What is the result of the following statement?

```
seq(1, 5, 0.5) [1] 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
```

5. Write code in R to compute the sum of the integers from 1 through 10. sum(seq(1,10))

sum(1:10)

6. What is the output of the following statements?

```
m <- c(6, 3, 4) sort(m, descending=TRUE)  #> [1] 3 4 6
```

7. What is the output of the following statements?

```
country <- c("hong kong", "france", "japan")
country[[2]]
```

8. What is the output of the following statements?

```
n <- 1000
x <- seq(1, n)
sum(x) 500500
```

9. What is the output of the following statements?

```
x <- c(1,2,-3,4) [1] "not all positive" ifelse(all(x>0), "all positives", "not all positives")
```

10. What is the output of the following statement?

```
sapply(1:4, log2) [1] 0.000000 1.584963 2.000000
```