Exercise 1

If:

```
seq(1,10,by=2)
```

```
## [1] 1 3 5 7 9
```

Then what will be the value of:

```
seq(1,10,by=3)
```

Exercise 2

Use the seq() function to generate the sequence 9, 18, 27, 36, 45.

Exercise 3

If:

```
seq(1,10,length.out = 5)
```

```
## [1]  1.00  3.25  5.50  7.75 10.00
```

Then what will be the value of:

```
seq(1,10, length.out = 3)
```

Exercise 4

If:

```
x = 1:5
rep(x,2)
```

```
##  [1] 1 2 3 4 5 1 2 3 4 5
```

. . . And:

```
rep(x,2, each=2)
```

```
##  [1] 1 1 2 2 3 3 4 4 5 5 1 1 2 2 3 3 4 4 5 5
```

What will be the value of:

```
rep(x,each=4)
```

Exercise 5

If:

```
x = "Hip"
y = "Hooray"
```

Then what is the value of:

```
rep(c(rep(x,2),y),3)
```

Exercise 6

Create a sequence with values (in this order): 100 95 90 85 80 75 70 65 60 55 50

Exercise 7

If:

```
Semester_Start = as.Date("2019-08-19")
Semester_End = as.Date("2019-12-05")
seq(Semester_Start,Semester_End,by="week")
```

```
##  [1] "2019-08-19" "2019-08-26" "2019-09-02" "2019-09-09" "2019-09-16"
##  [6] "2019-09-23" "2019-09-30" "2019-10-07" "2019-10-14" "2019-10-21"
## [11] "2019-10-28" "2019-11-04" "2019-11-11" "2019-11-18" "2019-11-25"
## [16] "2019-12-02"
```

Then what would be the value of "midterm" when:

```
midterm = seq(Semester_Start,Semester_End,length.out = 3)[2]
```