





Microsoft: DAT209x Programming in R for Data Science



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Lecture

Knowledge ChecksQuiz due Jun 27, 2016 at 23:30 UTC **Lab**Lab due Jun 27, 2016 at 23:30 UTC 

4. Working with Vectors and Matrices > Knowledge Checks > Quiz

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Question 1

(1/1 point)

The vectors x, y, and z are constructed as follows:

```
x<-1:3  
y<-seq(4,8)  
z<-rep(9:10,1)
```

How many elements do vector xyz have if it is constructed as follows:

```
xyz<-c(x,y,z)
```

☐ 3☐ 8

☒ 10 ✓

☐ 15

EXPLANATION

You have used 1 of 2 submissions

Question 2

(1/1 point)

You would like to construct a 3 by 3 matrix of numbers between 1 to 9. The first row should have the value 1 to 3, the second row should have the value 4 to 6 and the third row should have the value 7 to 9.

Which command should you run?

☐ `matrix(1:9, ncol=3)`

☐ `matrix(1:9, nrow=3)`

☐ `matrix(1:9, ncol=3, ncol=3)`

☒ `matrix(1:9, ncol=3, byrow=TRUE)` ✓

EXPLANATION

You have used 1 of 2 submissions

Question 3

(1/1 point)

The vector `x` is defined as follows:

```
x<-1:10
```

Which command will select the elements which are odd numbers from vector `x`?

☐ `x[1,3,5,7,9]`

☐ `x[1:9]`

☒ `x[2*(1:5)-1]` ✓

☐ `x[rep(c(FALSE,TRUE),5)]`

EXPLANATION

You have used 1 of 2 submissions

Question 4

(1/1 point)

The matrix x is defined as follows:

```
x<-matrix(-4:5,nrow=2)
```

Which command will select the element that has 0 value?

☐ `x[2,2]`

☒ x[1,3] ✓

☐ x[3,1]

☐ x[2,3]

EXPLANATION

You have used 1 of 2 submissions

Question 5

(1/1 point)

The matrix x is defined as follows:

```
x<-matrix(-4:5,nrow=2)
```

Which command will select the third and fourth columns of the matrix?

☐ x[3,4]

☒ x[,3:4] ✓

☐ x[3:4,]

☐ x[3:4]

EXPLANATION

You have used 2 of 2 submissions

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