





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 

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 Bookmark

Question 1

(1/1 point)

You are examining the following code:

```
for(i in 0:10) {  
  if(i%2!=0) cat(i)  
}
```

When you run the above code, what numbers will be printed?

☐ the even numbers between 0 to 10☒ the odd numbers between 0 to 10 ☐ the prime numbers between 0 to 10

- ☐ the first odd number between 0 to 10

EXPLANATION

You have used 1 of 2 submissions

Question 2


(1/1 point)

You are examining the following code:

```
notfound<-TRUE
i<-0
while(notfound) {
  if(i%%2!=0) {
    cat(i)
    notfound<-FALSE
  }
}
```

What will happen when you execute the above code?

(Try answering without actually running the code)

- ☐ The code will print the even numbers between 1 to 10
- ☐ The code will print the odd numbers between 1 to 10
- ☐ The code will print first odd number from 0
- ☒ the code will enter into infinite loop 

EXPLANATION

You have used 2 of 2 submissions

Question 3

(1/1 point)

Which two of the following are the differences between the while and the repeat loops?

- ☐ The while loop requires the break command to be exited manually

☒ The repeat loop requires the break command to be exited manually ✓

☐ The while loop body will be run at least once

☒ The repeat loop body will be run at least once ✓



Note: Make sure you select all of the correct options—there may be more than one!

EXPLANATION

You have used 1 of 2 submissions

Question 4

(1/1 point)

The list x is defined as follows:

```
x <- list(a = 1:10, beta = exp(-3:3), logic = c(TRUE,FALSE,FALSE,TRUE))
```

What is the command to find the mean of each list components?

☐ mean(x)☐ average(x)☒ lapply(x, mean) ✓☐ lapply(mean(x))**EXPLANATION**

You have used 1 of 2 submissions

Question 5

(1/1 point)

What is the difference between lapply() and sapply()?

☐ The lapply() takes only lists as input, whereas the sapply() takes vectors, matrices and lists.

☒ The lapply() outputs a list, whereas the sapply() outputs a vector or a matrix. ✓

☐ The sapply() takes only lists as input, whereas the lapply() takes vectors, matrices and lists.

☐ The sapply() outputs a list, whereas the lapply() outputs a vector or a matrix.

EXPLANATION

You have used 1 of 2 submissions

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