Aadarsh Baranwal
FYCS A

PRACTICAL 4

FOR DISCRETE DISTRIBUTION:

Q 1) x=(37,42,38,25,31,37,43,37,43,44,28,36,37,51)

COMMAND:

```
x=c(37,42,38,25,31,37,43,37,43,44,28,36,37,51)

m=mean(x)

cat("The mean is:",m,"\n")


me=median(x)

cat("The median is:",me,"\n")


mode<-function(x){

uniqx<-unique(x)

uniqx[which.max(tabulate(match(x, uniqx)))]

}


mo=mode(x)

cat("The mode is:",mo,"\n")
```

OUTPUT:

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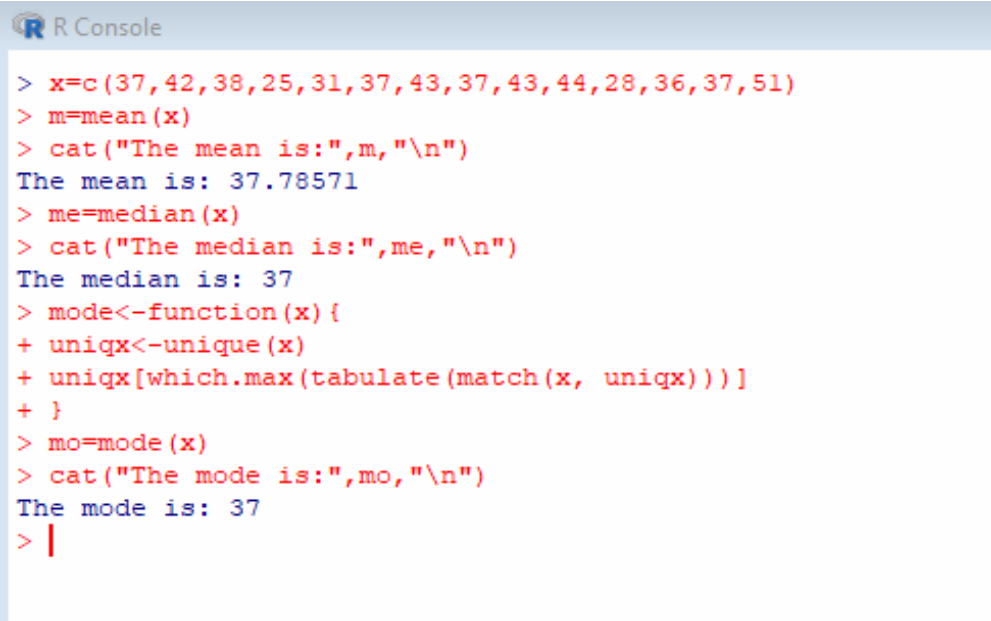

Q 2) y=(23,42,34,25,26,25,18,23,25,41,25,31)

COMMAND:

```
y=c(23,42,34,25,26,25,18,23,25,41,25,31)

m=mean(y)

cat("The mean is:",m,"\n")


me=median(y)

cat("The median is:",me,"\n")


mode<-function(y){

uniqx<-unique(y)

uniqx[which.max(tabulate(match(y, uniqx)))]

}


mo=mode(y)
```

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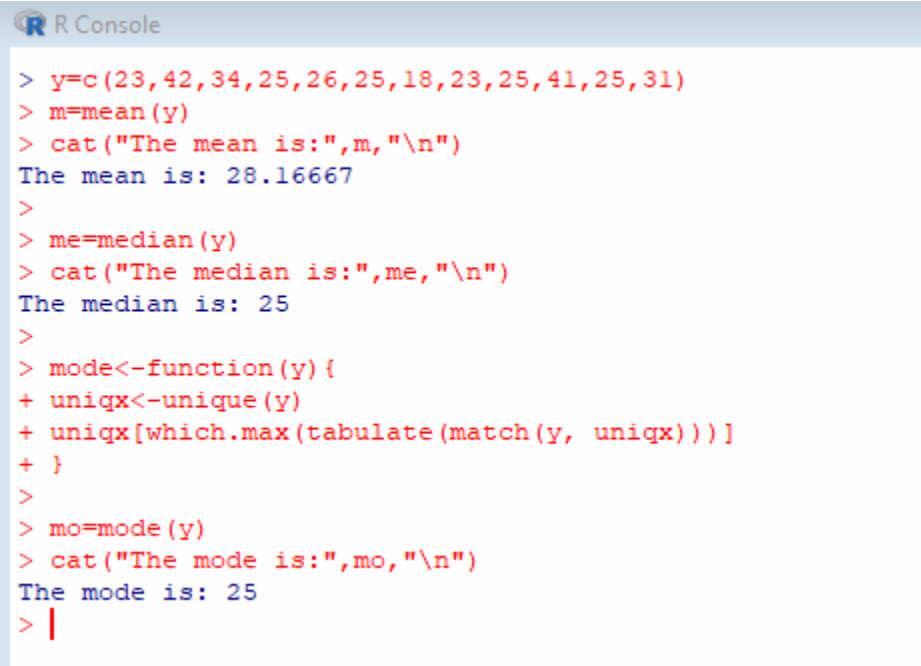
cat("The mode is:",mo,"\n")

OUTPUT:



Q1)

x=c(5,10,15,20,25,30,35)

f=c(4,10,22,34,30,21,7)

y=rep(x,f)

m=mean(y)

cat("The mean is:",m,"\n")

me=median(y)

cat("The median is:",me,"\n")

mode <- function(x) {

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```
 uniqx<- unique(x)

uniqx[which.max(tabulate(match(x, uniqx)))]

 }

mo=mode(y)

cat("The mode is:",mo,"\n")
```

OutPut:

```
> x=c(5,10,15,20,25,30,35)

> f=c(4,10,22,34,30,21,7)

> y=rep(x,f)

> m=mean(y)

> cat("The mean is:",m,"\n")

The mean is: 21.52344

>

> me=median(y)

> cat("The median is:",me,"\n")

The median is: 20

>

>  mode <- function(x) {

+  uniqx<- unique(x)

+ uniqx[which.max(tabulate(match(x, uniqx)))]

+  }

> mo=mode(y)
```

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> cat("The mode is:",mo,"\n")

The mode is: 20

Q2.

```
x=c(12,14,16,18,20,22,24,26,30,32)

f=c(8,15,28,32,46,35,24,15,10,6)

y=rep(x,f)

m=mean(y)

cat("The mean is:",m,"\n")


me=median(y)

cat("The median is:",me,"\n")


 mode <- function(x) {

 uniqx<- unique(x)

uniqx[which.max(tabulate(match(x, uniqx)))]

 }

mo=mode(y)

cat("The mode is:",mo,"\n")
```

OutPut:

```
> x=c(12,14,16,18,20,22,24,26,30,32)

> f=c(8,15,28,32,46,35,24,15,10,6)

> y=rep(x,f)

> m=mean(y)
```

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```
> cat("The mean is:",m,"\n")

The mean is: 20.44749

>

> me=median(y)

> cat("The median is:",me,"\n")

The median is: 20

>

>  mode <- function(x) {

+  uniqx<- unique(x)

+ uniqx[which.max(tabulate(match(x, uniqx)))]

+  }

> mo=mode(y)

> cat("The mode is:",mo,"\n")

The mode is: 20

>
```