Assignment 10

Fifteen students were enrolled in a course. Their ages were: 20 20 20 20 20 21 21 21 22 22 22 22 23 23 23

```
student=scan("E:\\Data Science\\Assignment 10 Student\\Student.txt",sep=" ")
print(student)
```

```
##  [1] 20 20 20 20 20 21 21 21 22 22 22 22 23 23 23
```

i. Find the median age of all students under 22 years.

```
median(student[which(student<22)])
```

```
## [1] 20
```

ii. Find the median age of all students

```
median(student)
```

```
## [1] 21
```

iii. Find the mean age of all students

```
mean(student)
```

```
## [1] 21.33333
```

iv. Find modal age for all students

```
mode<-function(v)
{
    t=table(v)
    n=names(which(t==max(t)))
    return(n)
}
```

```
mode(student)
```

```
## [1] "20"
```

v. Two more students enter the class. The age of both students is 23. What is now mean, mode and median?

```
student=append(student,c(23,23))
print(paste('Mean:',mean(student)))
```

```
## [1] "Mean: 21.5294117647059"
```

```
print(paste('Median:',median(student)))
```

```
## [1] "Median: 22"
```

```
print('Mode:');print(mode(student))
```

```
## [1] "Mode:"
```

```
## [1] "20" "23"
```