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

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

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

## [1] 20

1. Find the median age of all students

median(student)

## [1] 21

1. Find the mean age of all students

mean(student)

## [1] 21.33333

1. Find modal age for all students

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

mode(student)

## [1] "20"

1. 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"