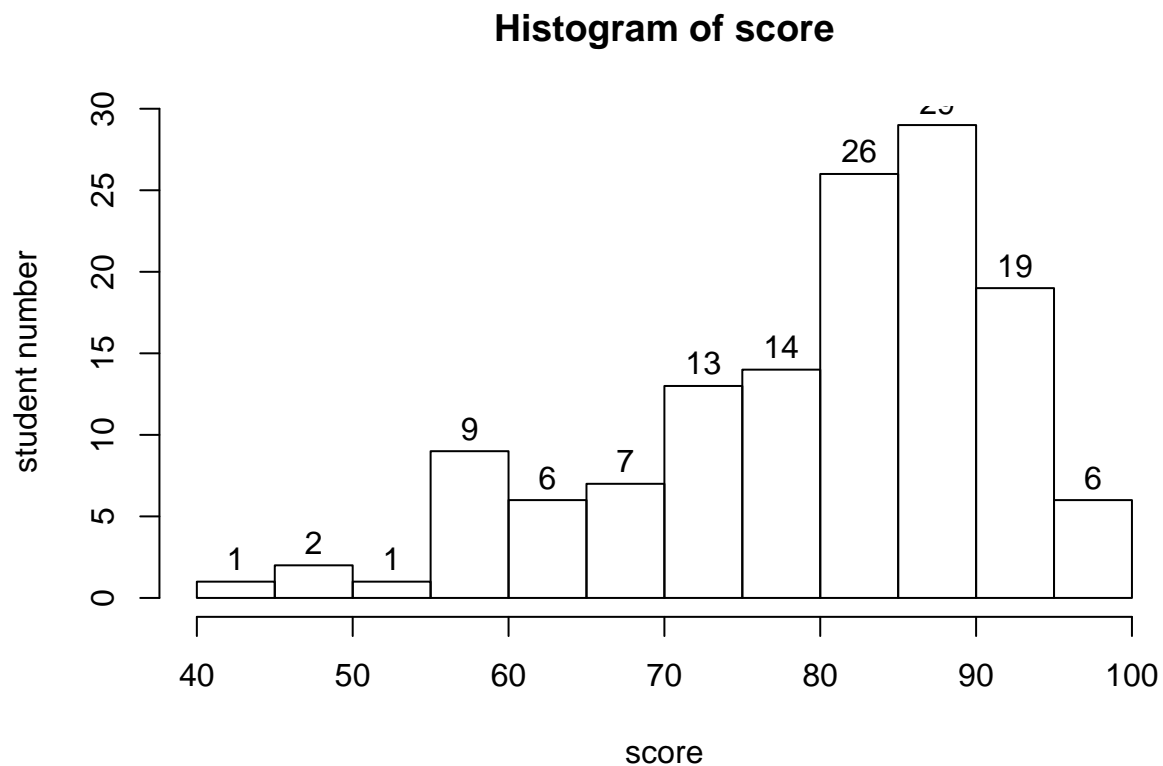# Mid-term test score analysis

2018/11/18

Score distribution

```r
#Input data
grade<-read.csv("/Users/qqqqqqqqqq/Desktop/z.csv")
#Display score distribution histogram

hist(grade$score,main = paste("Histogram of" , "score"),
     xlab = "score",ylab = "student number",labels = TRUE,right = FALSE)
```

Histogram of score

Find the number of students in the score segment

the number of students

```r
#total
length(grade$score)
```

```
## [1] 133
```

Find the number of students in the score segment the number of students, break=5

```r
#Find the number of students in the score segment
table(cut(grade$score, breaks = 5*(8:20),right = FALSE))
```

```
##
##  [40,45)  [45,50)  [50,55)  [55,60)  [60,65)  [65,70)  [70,75)  [75,80)
##        1        2        1        9        6        7       13       14
##  [80,85)  [85,90)  [90,95) [95,100)
##       26       29       19        6
```

Summary

```r
summary(grade)
```

```
##     first            second           third            fourth
##  Min.   : 6.00   Min.   : 0.000   Min.   : 0.000   Min.   : 0.00
##  1st Qu.:23.00   1st Qu.: 4.000   1st Qu.:10.000   1st Qu.:10.00
##  Median :28.00   Median :10.000   Median :10.000   Median :10.00
##  Mean   :25.27   Mean   : 7.541   Mean   : 9.383   Mean   : 9.88
##  3rd Qu.:30.00   3rd Qu.:10.000   3rd Qu.:10.000   3rd Qu.:10.00
##  Max.   :30.00   Max.   :10.000   Max.   :10.000   Max.   :10.00
##     fifth            sixth           seventh           score
##  Min.   : 0.000   Min.   : 0.000   Min.   : 6.00   Min.   :42.00
##  1st Qu.: 5.000   1st Qu.: 9.000   1st Qu.:10.00   1st Qu.:73.00
##  Median : 7.000   Median :10.000   Median :12.00   Median :82.00
##  Mean   : 6.797   Mean   : 8.602   Mean   :11.91   Mean   :79.38
##  3rd Qu.:10.000   3rd Qu.:10.000   3rd Qu.:14.00   3rd Qu.:88.00
##  Max.   :10.000   Max.   :13.000   Max.   :20.00   Max.   :99.00
```