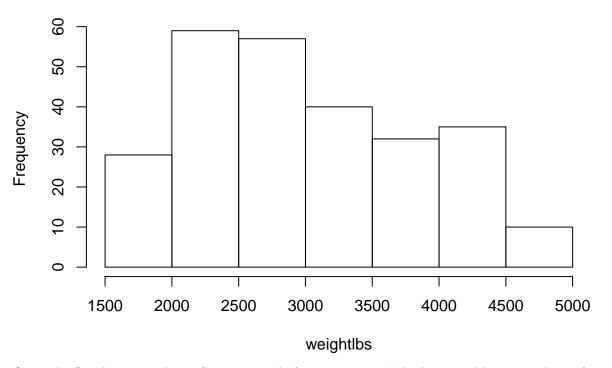
STAT4198 HW1 Min Yang

```
## [171] 107 131 68 112 122 96 400 304 302 98 200
                                                      97 305 318 112 200 250
## [188] 318 351 440 156 151 400 350 318
                                         98 135
                                                      90
                                                  90
                                                          85 116 140 260 225
## [205] 140 390
                 85 250 307 168 146 231
                                         79
                                              79 225 119
                                                          85 351 173 302 258
## [222] 121 318 168 302 83 360 76 200 140 383 120 140 318 130 97 318 200
## [239] 86 122 350 225 400 110 454 318 318
                                              90
                                                  97 135
                                                          98 121 121 350 173
## [256] 113 305 91 232 232 250
Q7: provide the line to retrieve 3rd column using the column name
mydata[["cubicinches"]]
     [1] 350 89 302 400 98 350 351 440 183
                                              89 108
##
                                                      97 302 350 225 350
##
   [18] 304 113 107
                     86 121 200 351
                                    89
                                         91
                                              71 351 250
                                                             97 250 120 199
                                                          98
   [35] 97 231 97
                     80 351 232 250 302 250 250 455 120 318 122
                                                                 97 200 400
   [52] 141 340 116 350 400 156
                                 98
                                     90 360 232 108 168
                                                         86 318 250
   [69] 97 305 198 112 97 119
                                 98 262 232 134
                                                  98 108 400 429 305 115 116
## [86] 72 199 225 90 119
                             86 119 350 250
                                              98 231 350 250 318 250 400 400
## [103] 98 105 108 151
                         90
                              88 121 307
                                         97 121 351
                                                      91
                                                          91 225 151 231
## [120] 429 101
                 79 400 156
                              97 140 360 105 114
                                                  98
                                                      97 151 455 304 350 318
## [137] 91 302 121 120 173
                              97 144
                                     81 267 120 225 151 350 302 120 134 455
## [154] 250 107 250
                     70
                         98 232 163 151 318 171 198
                                                      97 260 225 156 156 105
## [171] 107 131
                 68 112 122
                             96 400 304 302
                                             98 200
                                                      97 305 318 112 200 250
## [188] 318 351 440 156 151 400 350 318
                                         98 135
                                                  90
                                                      90
                                                          85 116 140 260 225
## [205] 140 390 85 250 307 168 146 231
                                              79 225 119
                                         79
                                                          85 351 173 302 258
## [222] 121 318 168 302  83 360  76 200 140 383 120 140 318 130  97 318 200
## [239] 86 122 350 225 400 110 454 318 318 90 97 135 98 121 121 350 173
## [256] 113 305 91 232 232 250
Q8:list elements of the second row.
mydata[2,]
      mpg cylinders cubicinches hp weightlbs time.to.60 year
## 2 31.9
                  4
                             89 71
                                        1925
                                                     14 1980 Europe.
mydata$newcolumn<-NA
mydata$newcolumn<-mydata$brand=="US."
Q11:
table(mydata$newcolumn)
##
## FALSE TRUE
      99
           162
 12.
newmydata<-rbind(mydata,list(30.5,4, 98, 63, 2051, 17, 1978, "US."," TRUE"))
Q13: mean mpg is 23.1729
mean(newmydata$mpg)
## [1] 23.1729
```

Q14:median mpg is 22

Histogram for weightlbs



Q17: The first histogram has a frequency scale from 0 to 120, while the second histogram has a frequency scale from 0 to 30. The second plot on the right side has 16 breaks which is more specific than the first one. With 16 breaks, the second histogram can provide more details on the distribution of the frequency of "weightlbs".

Histogram for weightlbs

100 120 Frequency

weightlbs

Histogram for weightlbs

