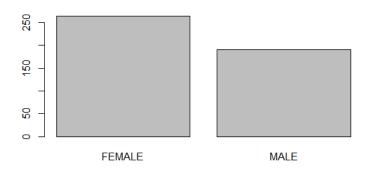
> attach(student)

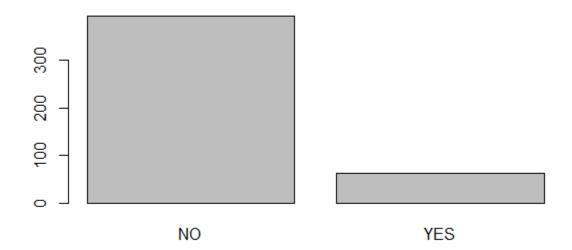
## 1. Pie Charts and Bar Plots Using One Categorical Variable

- (a) Draw a bar plot for the variable GENDER
  - > barplot(table(GENDER))



(b) Draw a bar plot for the variable MARRIED

> barplot(table(MARRIED))



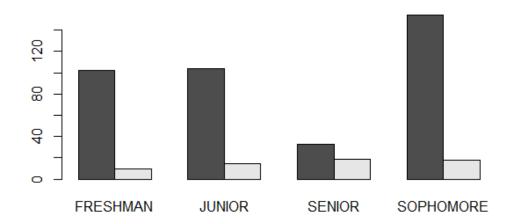
## 2. Side-by-Side Bar Plots Using Two Categorical Variables

(a) Draw a side-by-side bar plot for two variables TATTOO and GENDER



(b) Draw a side-by-side bar plot for two variables MARRIED and CLASS

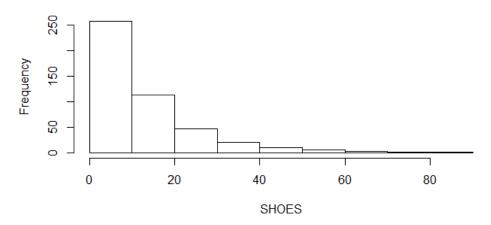
```
> barplot(table(MARRIED, CLASS), beside=TRUE)
```



- 3. Histograms Using One Quantitative Variable
- (a) Draw a histogram for the variable SHOES by typing hist(SHOES)

> hi st(SH0ES)

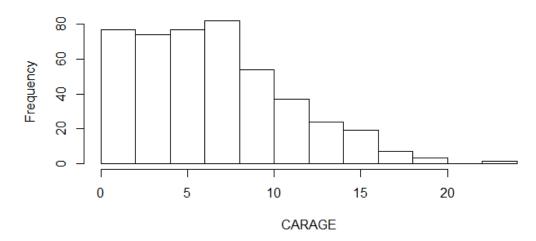
## **Histogram of SHOES**



(b) Draw a **histogram** for the variable CARAGE

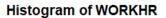
> hi st(CARAGE)

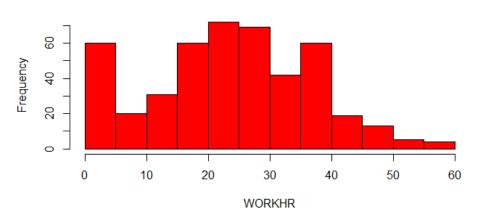
## **Histogram of CARAGE**



## 4. Histograms with Some Options Added

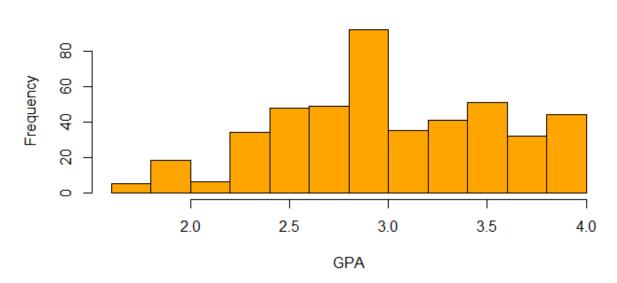
(a) Draw a histogram for the variable WORKHR and color the bars in red





(b) Draw a histogram for GPA and color the bars (use a color other than red)

# **Histogram of GPA**



#### 5. Side-by-Side Bar Plots with Some Options and a Legend Added

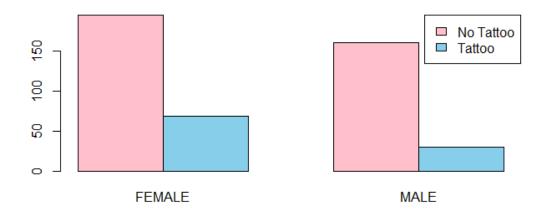
(a) Draw a **side-by-side bar plot** for two variables TATTOO and GENDER and **color the bars** (we need two colors: e.g. pink and sky blue) by typing the command as shown below.

```
> barplot(table(TATT00, GENDER), beside=TRUE, col=c("pink", "skyblue"))
```



(b) **Add a legend** ("No Tattoo" or "Tattoo") to the plot in (a) and place the legend in the top and right-hand side by typing the command shown below.

```
> legend("topright", legend=c("No Tattoo", "Tattoo"), fill=c("pink", "skyblue"))
```



Note: We need two colors (one color for "No Tattoo" and one for "Tattoo")

- ☑ The first bar for each category in the default graph represents "No Tattoo"
- The second bar in the default graph represents "Tattoo"
- (c) Draw a **side-by-side bar plot** for two variables MARRIED and CLASS and **color the bars**, and also add a legend.

```
> barplot(table(MARRIED, CLASS), beside=TRUE, col=c("skyblue", "yellow"))
> legend("topleft", legend=c("No Married", "Married"), fill=c("skyblue", "yellow"))
```

