

```
> x<-c(5,4,3,2)
```

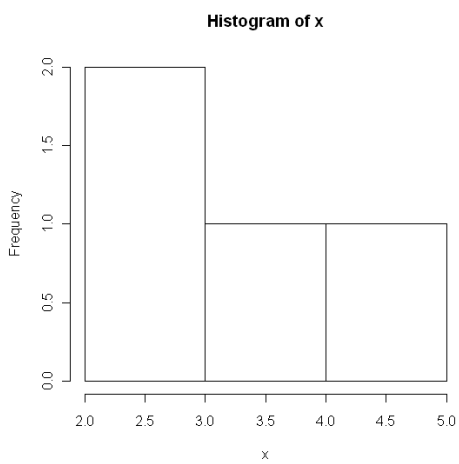
```
> x  
[1] 5 4 3 2
```

```
> x[3]  
[1] 3
```

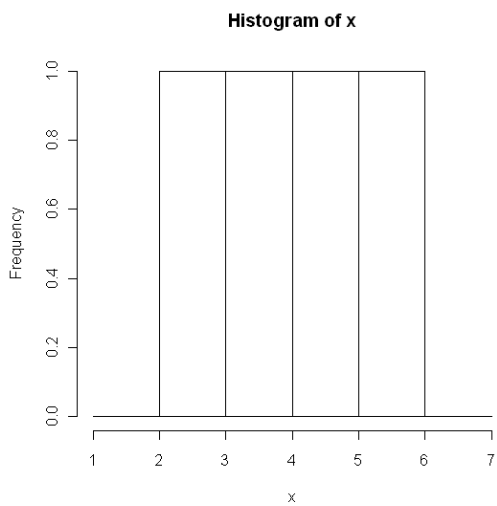
```
> mean(x)  
[1] 3.5
```

```
> objects()  
[1] "x"
```

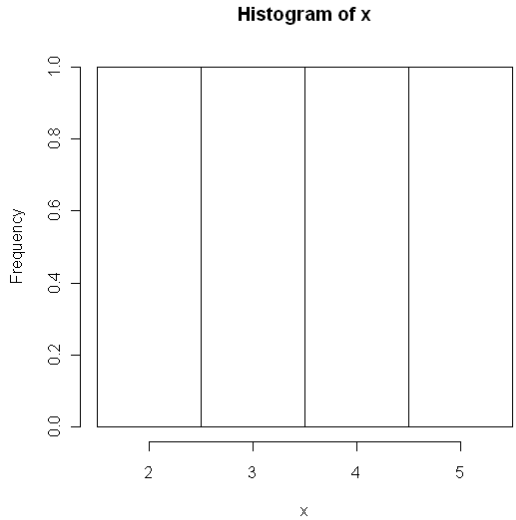
```
> hist(x)
```



```
> hist(x,breaks=seq(1,7,by=1),right=F)
```



```
> hist(x,breaks=seq(1.5,5.5,by=1),right=F)
```



```
> IQ<-rnorm(1000,mean=100,sd=15)
```

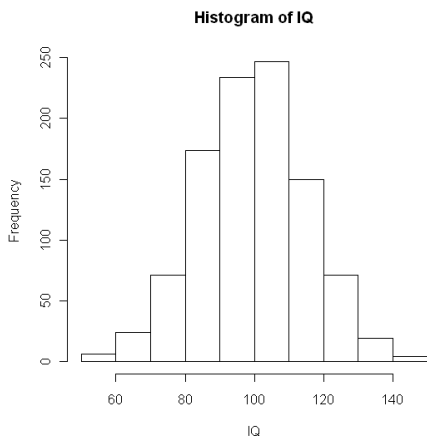
```
#Your IQ data will be different... it's random!
```

```
> IQ
 [1]  92.54930 109.00239 114.26507 111.56788 120.50596 101.49169  93.33797
 [8] 106.68486 103.29820  87.87807  98.88745  89.69167 106.86317  95.07249
[15]  90.33915  72.04239 103.11390 103.14250  93.48920 101.01570 112.66078
[22] 123.31403 115.87322 106.06672 128.56956 132.38757 107.87137  90.91416
[29] 111.21351  93.83098  95.20348 107.37933  89.93266  83.32965 105.06509
[36] 113.25578  96.01688  94.78101  80.30823  91.87008 117.00475 111.62780
[43]  97.72024 100.72449 121.03014  95.47689 120.03272 108.20534  96.13074
[50]  80.66576  96.62094 113.30949  58.77169  95.37441  99.38172  85.97327
<SNIP!>
```

```
> mean(IQ)
[1] 99.49724
```

```
> sd(IQ)
[1] 15.40931
```

```
> hist(IQ,right=F)
```



```
> sum( (IQ>=85) & (IQ<115) ) /1000
```

```
[1] 0.672
```

```
> sum( (IQ>=70) & (IQ<130) ) /1000
```

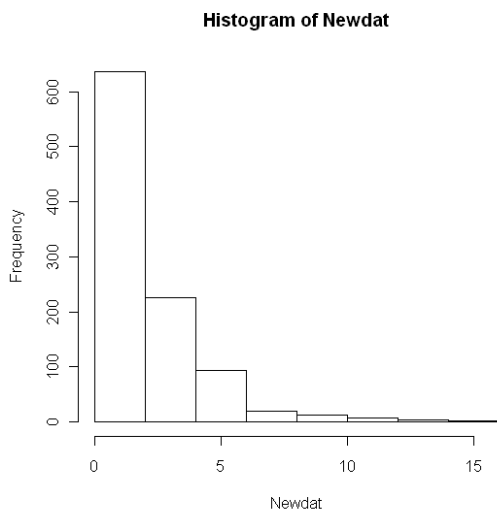
```
[1] 0.947
```

```
> sum( (IQ>=45) & (IQ<145) ) /1000
```

```
[1] 0.999
```

```
> Newdat<-rchisq(1000,df=2)
```

```
> hist(Newdat)
```



```
> mean(Newdat)
```

```
[1] 2.014024
```

```
> median(Newdat)
```

```
[1] 1.403271
```

```
> sum( (Newdat>=mean(Newdat)-sd(Newdat)) & (Newdat<
mean(Newdat)+sd(Newdat)) ) /1000
```

```
[1] 0.871
```

```
> sum( (Newdat>=mean(Newdat)-2*sd(Newdat)) & (Newdat<
mean(Newdat)+2*sd(Newdat)) ) /1000
```

```
[1] 0.959
```

```
> sum( (Newdat>=mean(Newdat)-3*sd(Newdat)) & (Newdat<
mean(Newdat)+3*sd(Newdat)) ) /1000
```

```
[1] 0.978
```

```
> quantile(IQ,.5)
```

```
50%
```

```
99.6703
```

```
> quantile(IQ,.25)
```

```
25%
```

```
88.69938
```

```
> quantile(IQ,.75)
```

```
75%
```

```
109.8509
```

```
> IQR<-function(datavector) {
```

```
+ Q3<-summary(datavector)[5]
```

```
+ Q1<-summary(datavector)[2]
```

```
+ as.numeric(Q3-Q1) }
```

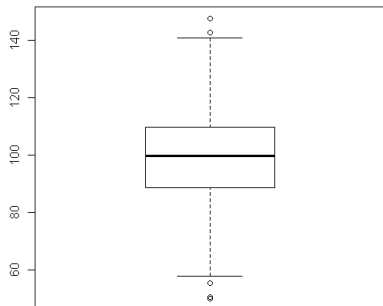
```
> IQR(IQ)
```

```
[1] 21.2
```

```
> summary(IQ)
```

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
50.12	88.70	99.67	99.50	109.90	147.60

```
> boxplot(IQ)
```



```
> boxplot(Newdat)
```

