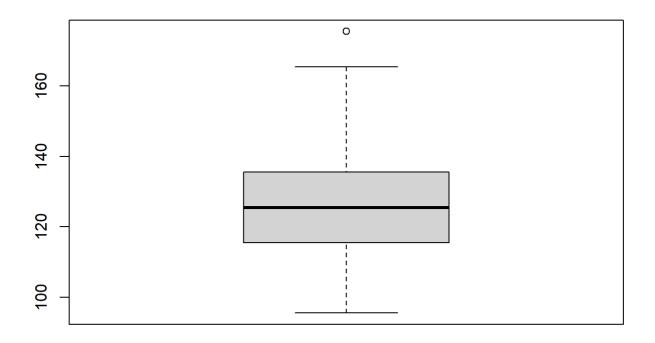
Blood-pressure.R

JAK

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```
#Following gives the frequency distribution of systolic blood pressure.
#Compute all measures of dispersion.
#95.5
            5
#105.5
            8
#115.5
            22
#125.5
            27
#135.5
            17
#145.5
#155.5
            5
#165.5
            5
#175.5
#Mean
#Range
#Variance
#Standard deviation
#Difference of each value with mean
#boxplot
#quantile
#summary
dispersion<-function()</pre>
  bp=c(rep(95.5,5),rep(105.5,8),rep(115.5,22),rep(125.5,27),rep(135.5,17),rep(145.5,9),rep(15
5.5,5),rep(165.5,5),rep(175.5,2))
  print(mean(bp))
  print(range(bp))
  print(var(bp))
  print(sd(bp))
  print(unique(bp))
  print(unique(mean(bp)-bp))
  print(quantile(bp))
  print(summary(bp))
 out=boxplot(bp)$out
  print(out)
  a=which(bp%in%out)
  print(a)
  print(mode(bp))
dispersion()
```

```
## [1] 128.2
## [1] 95.5 175.5
## [1] 322.9394
## [1] 17.97051
## [1] 95.5 105.5 115.5 125.5 135.5 145.5 155.5 165.5 175.5
## [1] 32.7 22.7 12.7 2.7 -7.3 -17.3 -27.3 -37.3 -47.3
##
          25% 50% 75% 100%
   95.5 115.5 125.5 135.5 175.5
##
     Min. 1st Qu. Median
                          Mean 3rd Qu.
                                           Max.
     95.5 115.5 125.5
##
                           128.2 135.5
                                          175.5
```



```
## [1] 175.5 175.5
## [1] 99 100
## [1] "numeric"
```

```
mode<-function(vec)
{
  t=table(vec)
  n=names(which(t==max(t)))
  return(n)
}</pre>
```