

Problem_2

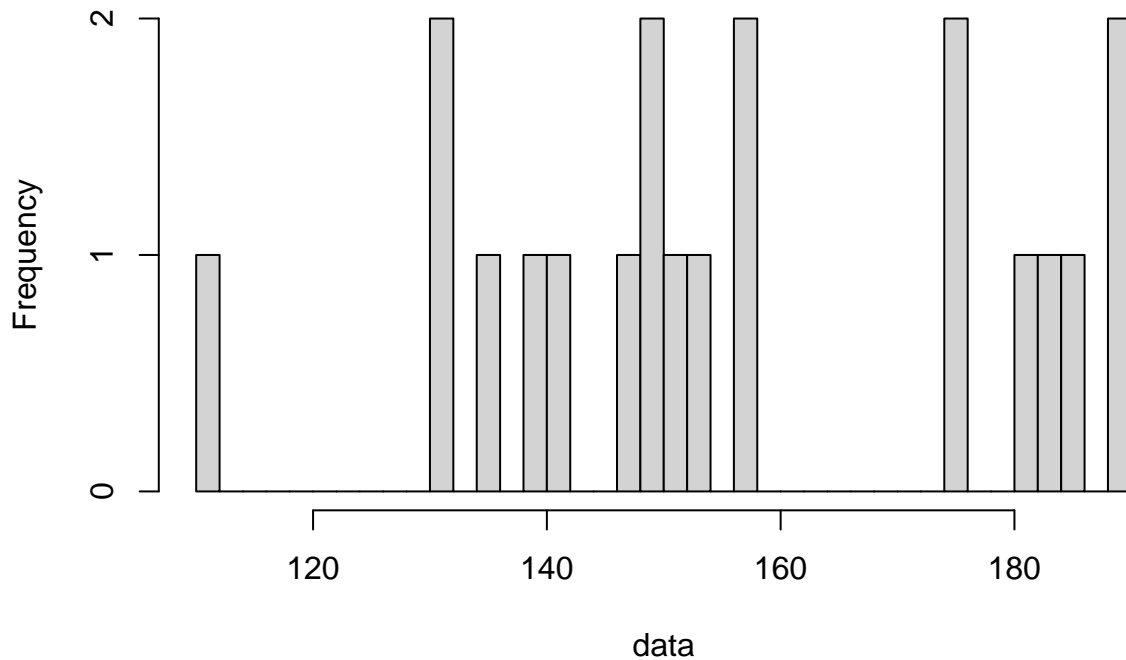
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Confidence interval 1

```
data=c(186, 181, 176, 149, 184, 190, 158, 139, 175, 148, 152, 111, 141, 153, 190, 157, 131, 149, 135, 181)
hist(data, breaks=50)
```

Histogram of data



```
n = length(data)
m = mean(data)
s = sd(data)
alpha = 0.1
t = qt(1-alpha/2, n-1)
c(m - t*s/sqrt(n), m + t*s/sqrt(n))
```

```
## [1] 148.0956 165.6044
```