

Exercise 3

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Reading the data

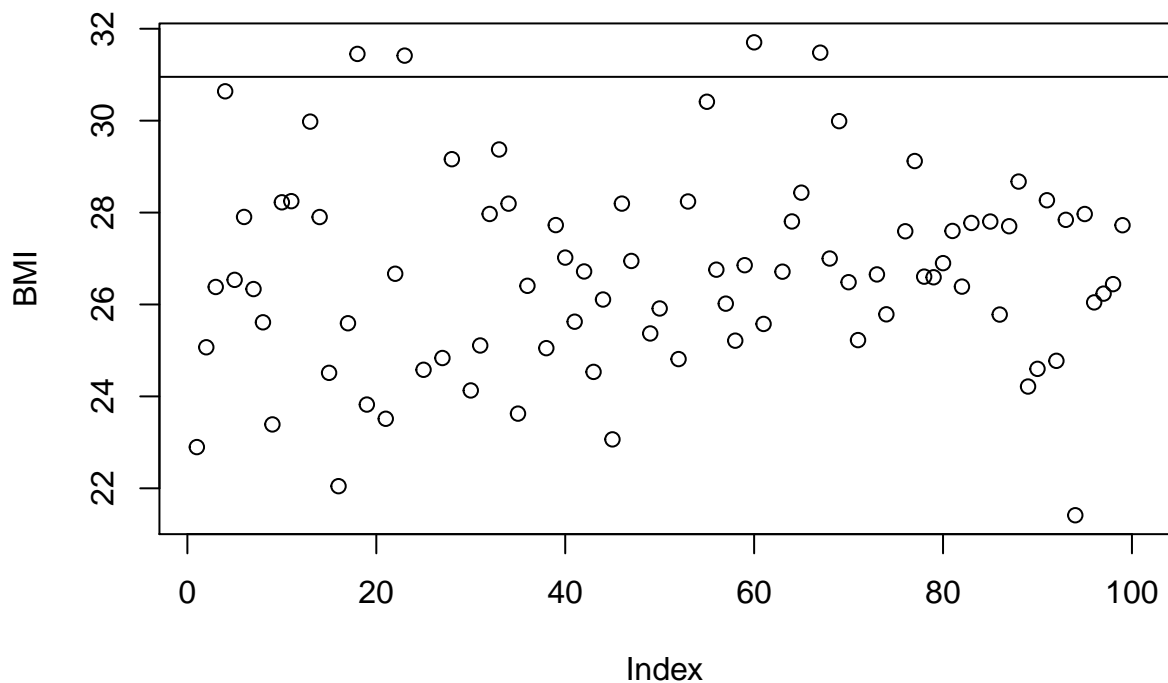
```
patients <- read.delim("patient-info.txt")
```

Analysis

```
BMI <- (patients$Weight)/((patients$Height/100)^2)
upper.limit <- mean(BMI,na.rm = TRUE) + 2*sd(BMI,na.rm = TRUE)
```

Plotting

```
plot(BMI)
# Add a horizontal line:
abline(h=upper.limit)
```



Write out the results

```
patients$BMI <- round(BMI,1)
candidates <- which(BMI > upper.limit)
write.csv(patients[candidates,], file="selectedSamples.csv")
```

Exercise

```
lower.limit <- mean(BMI,na.rm = TRUE) - 2*sd(BMI,na.rm = TRUE)
underweight.candidates <- which(BMI < lower.limit & patients$Smokes == "Smoker")

write.csv(patients[underweight.candidates,], "underweight_candidates.csv")
```