

Exercise 3

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Reading the data

```
rawData <- read.delim("countData.txt")
rawData[1:10,]
```

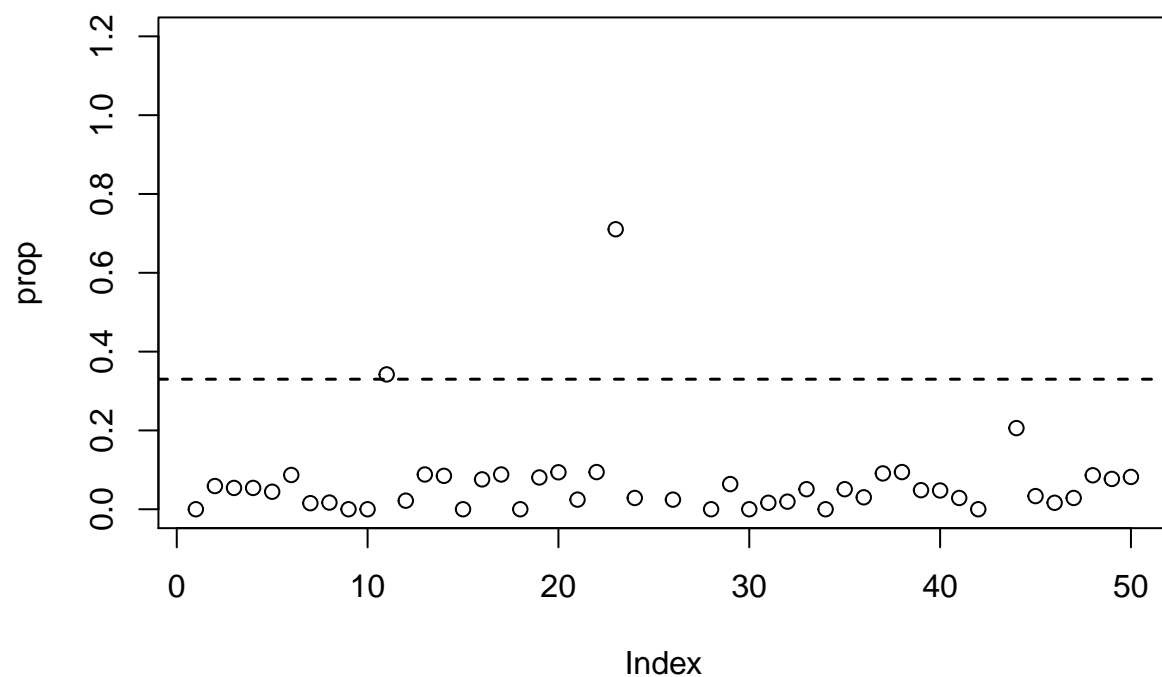
##	Patient	Nuclei	NB_Amp	NB_Nor	NB_Del
## 1	1	65	0	63	2
## 2	2	51	3	43	5
## 3	3	37	2	35	0
## 4	4	37	2	35	0
## 5	5	45	2	42	1
## 6	6	46	4	41	1
## 7	7	65	1	64	0
## 8	8	59	1	54	4
## 9	9	49	0	48	1
## 10	10	46	0	45	1

Analysis

```
prop <- rawData$NB_Amp / rawData$Nuclei
amp <- which(prop > 0.33)
```

Plotting

```
plot(prop, ylim=c(0,1.2)) # plot a simple chart of NB amplifications
abline(h=0.33, lwd=1.5, lty=2) # Add a dotted line at 33%
```



Write out the results

```
# Write out results table as comma separated values file
write.csv(rawData[amp,], file="selectedSamples.csv")
```

Exercise

```
norm <- which(prop < 0.33 & rawData$NB_Del == 0)
norm
```

```
## [1] 3 4 7 15 20 24 36 37 42 47
```

```
write.csv(rawData[norm,], "My_NB_output.csv")
```