## Exercise 8

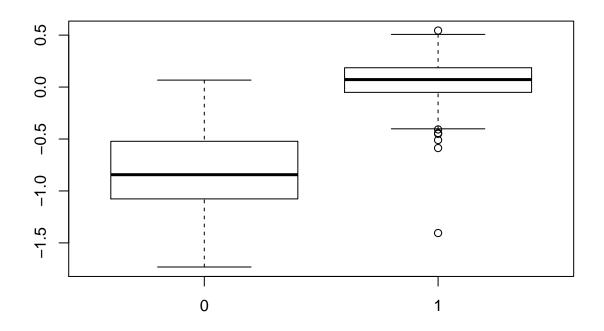
## Your Name

Last modified: 22 Dec 2016

```
genes <- read.delim("gene.description.txt")
subjects <- read.delim("cancer.patients.txt")
evals <- read.delim("gene.expression.txt",stringsAsFactors = FALSE)

ind <- match("GATA3", genes[,2])
probe <- genes[ind,1]
genevals <- evals[match(probe,rownames(evals)),]

boxplot(as.numeric(genevals)~factor(subjects$er))</pre>
```



```
##
## Welch Two Sample t-test
##
## data: as.numeric(genevals) by factor(subjects$er)
## t = -19.204, df = 106.52, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0</pre>
```

t.test(as.numeric(genevals)~factor(subjects\$er))

## 95 percent confidence interval:

## -0.9439213 -0.7672735

```
## sample estimates:
## mean in group 0 mean in group 1
## -0.79421591 0.06138153
```