Exercise 7

Your Name

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```
evals <- read.delim("gene.expression.txt",stringsAsFactors = FALSE)
evals[1:5,1:5]
dim(evals)
```

```
##                  NKI_4 NKI_6  NKI_7  NKI_8  NKI_9
## Contig56678_RC -0.261 0.346  0.047 -1.140 -0.110
## AF026004       -0.064 0.040 -0.165 -0.031  0.330
## AB033049       -0.307 0.046 -0.139  0.036 -0.154
## AB033050        0.582 0.216  0.091 -0.186 -0.156
## AB033086       -2.000 0.102 -0.016 -0.358  0.153
```

```
## [1] 498 337
```

```
genes <- read.delim("gene.description.txt",stringsAsFactors = FALSE)
head(genes)
```

```
##                         probe HUGO.gene.symbol Chromosome      Start
## Contig56678_RC Contig56678_RC            THSD4      chr15  71433788
## AF026004             AF026004            CLCN2       chr3 184063973
## AB033049             AB033049          ANKRD50       chr4 125585207
## AB033050             AB033050            ZMIZ1      chr10  80828792
## AB033086             AB033086           NLGN4X       chrX   5808083
## NM_003008           NM_003008            SEMG2      chr20  43850010
```

```
dim(genes)
```

```
## [1] 498   4
```

```
chr8Genes <- genes[genes$Chromosome=="chr8",]
head(chr8Genes)
```

```
##                         probe HUGO.gene.symbol Chromosome      Start
## Contig29827_RC Contig29827_RC            FUT10       chr8  33228344
## NM_003046           NM_003046           SLC7A2       chr8  17396286
## Contig55940_RC Contig55940_RC            CYHR1       chr8 145675315
## NM_004133           NM_004133            HNF4G       chr8  76452203
## NM_004374           NM_004374            COX6C       chr8 100890223
## AF052142             AF052142            NCALD       chr8 102698770
```

```
chr8GenesOrd <-chr8Genes[order(chr8Genes$Start),]
head(chr8GenesOrd)
```

```
##                        probe HUGO.gene.symbol Chromosome      Start
## NM_004745            NM_004745            DLGAP2       chr8   1449569
## NM_018941            NM_018941              CLN8       chr8   1711870
## AL117604              AL117604              DLC1       chr8  12940872
## NM_003046            NM_003046            SLC7A2       chr8  17396286
## Contig58301_RC Contig58301_RC            SLC7A2       chr8  17396286
## NM_000662            NM_000662              NAT1       chr8  18067618
```

```r
write.table(chr8GenesOrd,"chromosome8.gene.info.txt",sep="\t")
```