class12p2

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Q13: Read this file into R and determine the sample size for each genotype and their corresponding median expression levels for each of these genotypes.

```
expr <- read.table("rs8067378_ENSG00000172057.6.txt")
#head(expr)

nrow(expr)
```
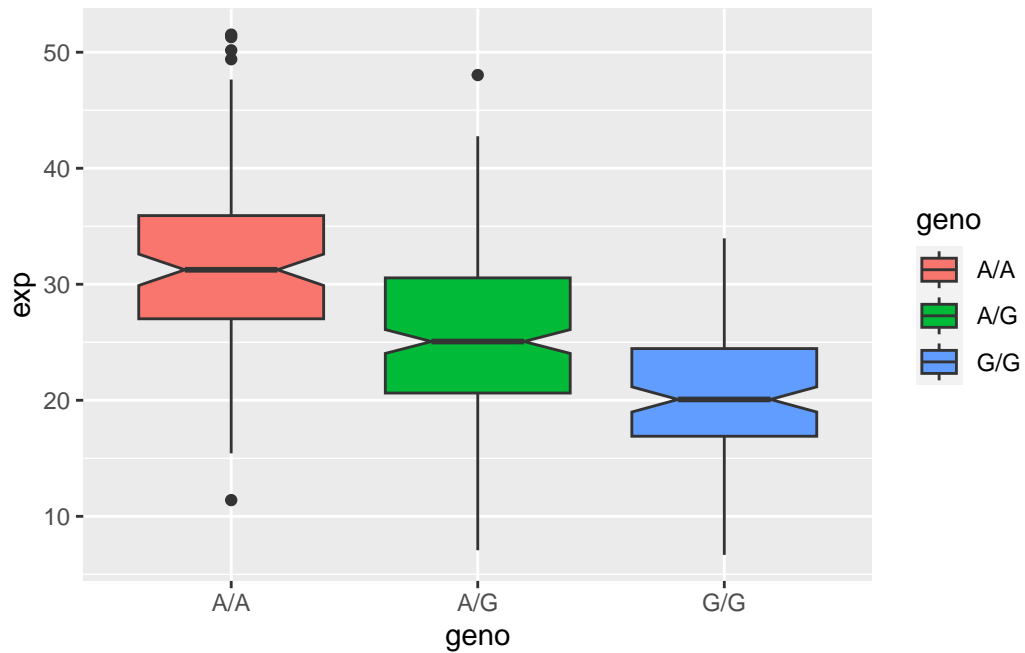
```
[1] 462
```

```
table(expr$geno)
```

```
A/A A/G G/G
108 233 121
```

```
library(ggplot2)
ggplot(expr) + aes(geno, exp, fill = geno) + geom_boxplot(notch=TRUE)
```

Q14: Generate a boxplot with a box per genotype, what could you infer from the relative expression value between A/A and G/G displayed in this plot? Does the SNP effect the expression of ORMDL3?

A|A is more common. yes the snp affects expression.