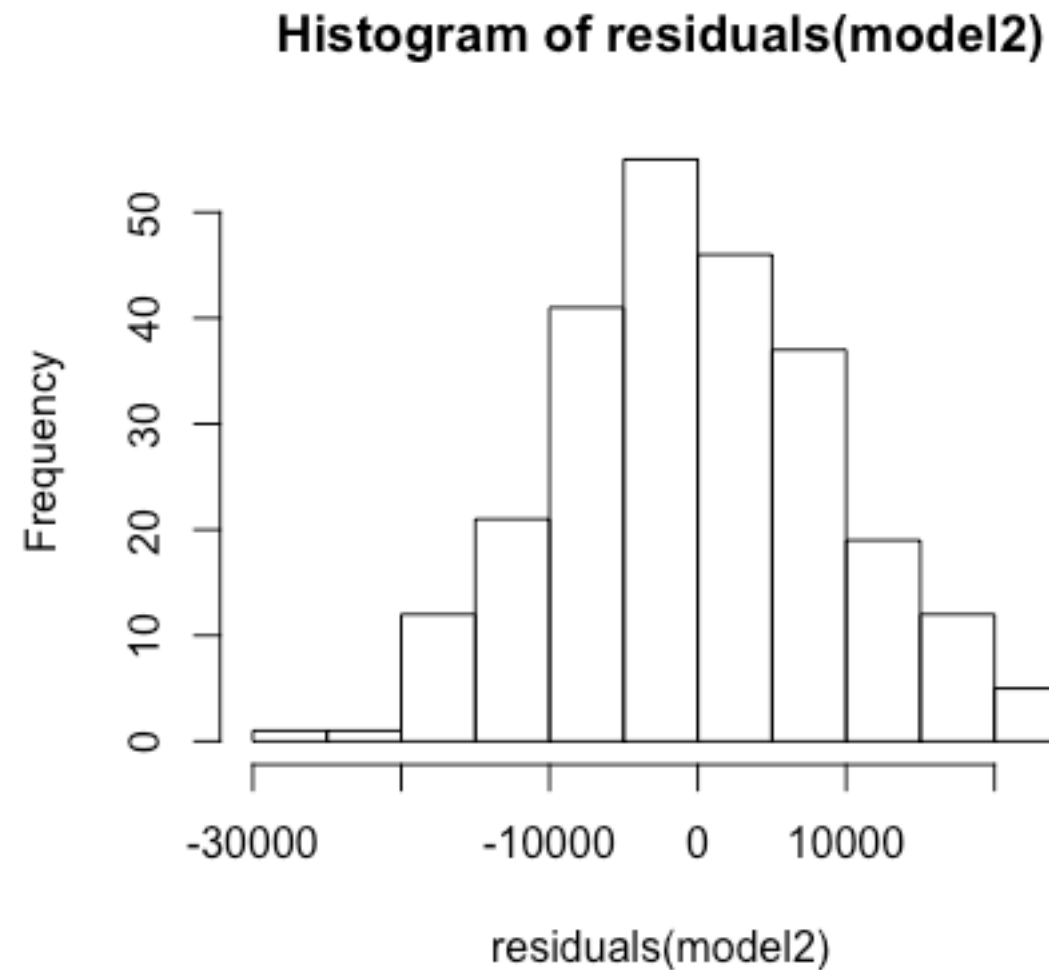In regression our residuals need to be normally distributed - the easiest way to check this is to plot them:

```
> hist(residuals(model2))
```


Histogram of residuals(model2)

Now let's look at a number of diagnostic plots...

We can use the following command to get some visual representations of model fit:

```
> plot(model2)
```

We should have a similar distribution of points (via LOESS Curve Fitting) either side of zero - if we don't it would suggest non-random errors (see Durbin Watson test later). In the Q-Q plot we should see a diagonal line if our residuals are normally distributed.

Residuals vs Fitted

lm(House_price ~ Population + Crime)

Normal Q-Q

lm(House_price ~ Population + Crime)