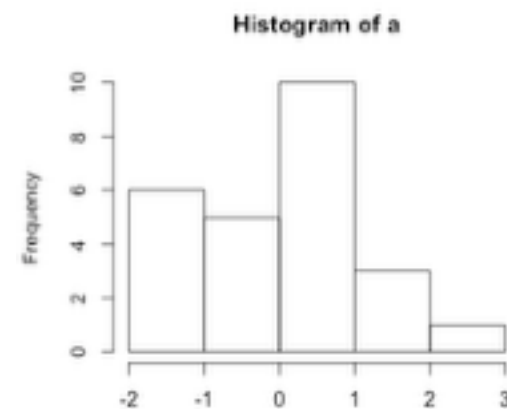


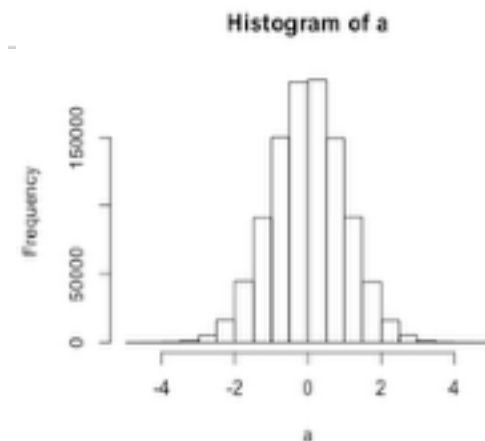
```
just_simulate <- function(sample_size) {  
  a <- rnorm(sample_size, 0, 1)  
  hist(a)  
}
```

- I have created a function I've called `just_simulate()` which takes one parameter (which I've called `sample_size`), samples this number of times from the standard normal distribution, and then plots a histogram of the sample.
- I ask the function to simulate first 25 and then 1000000 samples simply by typing:

```
> just_simulate(25)
```



```
> just_simulate(1000000)
```



- We can change any set of R code into a function in a similar way.
- The code for generating 100 samples, running the t-tests, and then plotting the results of the t-tests is turned into a function on the next slide - I've called it `simulate()`
- It takes one parameter input which specifies the sample size you want to simulate.