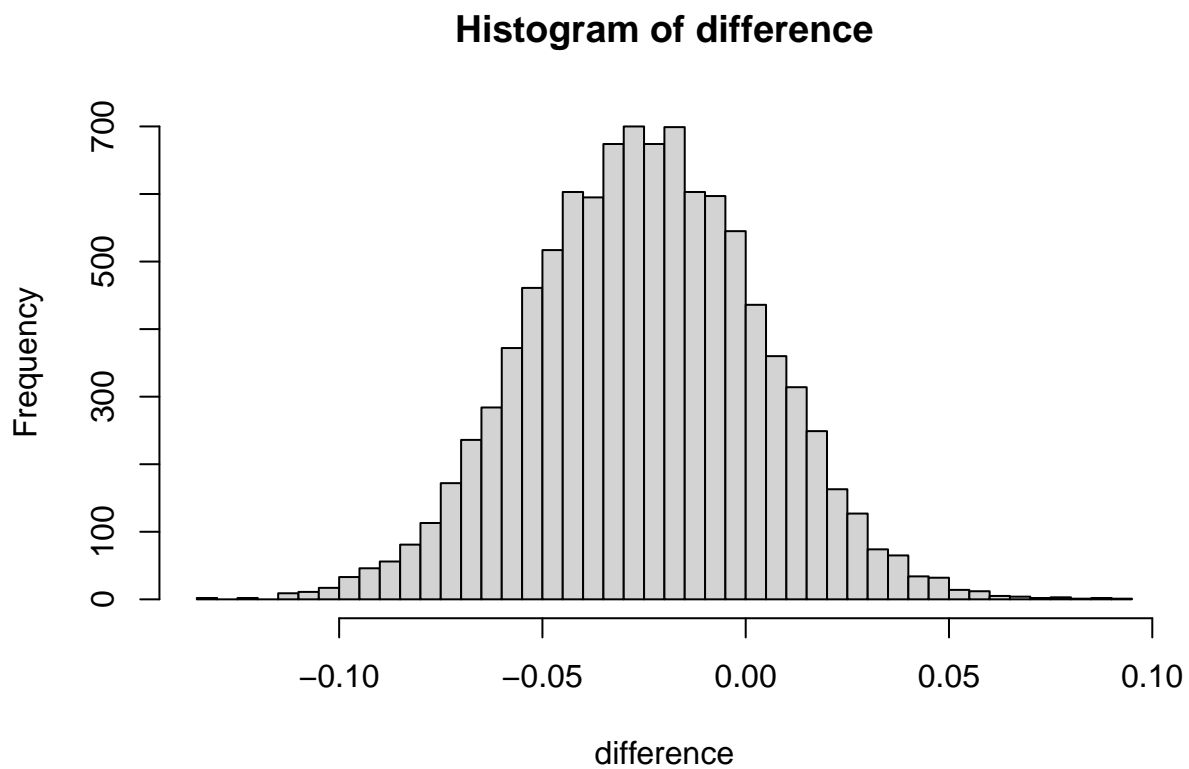


## assignment3

### Problem 1. (2)

```
alpha1 = rbeta(10000, 295, 308)
alpha2 = rbeta(10000, 289, 333)
difference <- alpha2 - alpha1
hist(difference, nclass=50)
```



```
sum(difference > 0) / length(difference)
```

```
## [1] 0.1898
```

The plot are shown above, and we calculate the posterior probability that there was a shift toward Bush which is around 19%.