STAT-431: HW-2

Problem 2

c) Credible Intervals

```
alpha = 6
beta = 25

ci = qbeta(c(0.025, 0.975), alpha, beta)
print("The 95% credible interval for this case is")

## [1] "The 95% credible interval for this case is"

round(ci,4)

## [1] 0.0771 0.3472

d) Posterior Porbability

post_prob = pbeta(0.2, alpha, beta)
print("The posterior proability thath the theta <= 0.2 is")

## [1] "The posterior proability thath the theta <= 0.2 is"

print(round(post_prob,3))</pre>
```