LATEX

```
using Distributions
 1
 2
                function thompson_sampling(\alpha, \beta, apply; T=100)
 3
                      for t in 1:T
 4
                            \theta = \text{rand.}(\text{Beta.}(\alpha, \beta))
 5
                            x = argmax(\theta)
 6
                           r = apply(x)
\alpha[x], \beta[x] = (\alpha[x] + r, \beta[x] + 1 - r)
 7
 8
9
                      return Beta.(\alpha, \beta)
10
                end
11
12
```