

Description:

How to execute:

Assuming the input file name is i.txt, the following is the command needed to be executed in terminal:

Then the output should be like this:

```
My dear Terminal! ~/Documents/6511project4 $ javac Algorithm.java  
My dear Terminal! ~/Documents/6511project4 $ java Algorithm i.txt  
States: {dice1, dice2, dice3}  
  
Transition A =  
    0.99      0.005     0.005  
    0.005     0.99      0.005  
    0.005     0.005     0.99  
  
Emission B =  
    0.6        0.2       0.2  
    0.2        0.6       0.2  
    0.2        0.2       0.6  
  
Belief: 3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,  
3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,  
2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,  
  
Probability: 3.01034E-44  
  
(Similarity: 90%)
```