```
File - /Users/shawn/Documents/GitHub/EE381-Project2/Project3/Project3.py
```

```
1 """
2 EE 381 Project 3 part 1
 3 Shawn Joseph 025671644
 4 """
5
6 import random
7 p = float(input("Enter probability of success"))
8 T = int(input("How many trials? "))
10 for i in range(T):
       r = random.uniform(0, 1)
11
       if r < p:
12
           print('1', end=' ')
13
14
       else:
           print('0', end=' ')
15
16
```

```
1 """
 2 EE 381 Project 3 part 2
 3 Shawn Joseph 025671644
 4 """
 5
 6 import random
 7
 8 \text{ RecLoc} = []
 9
10 p_A = float(input("Enter the probability of leaving '
   0' and going to '1'."))
11 q B = float(input("Enter the probability of leaving '
   1' and going to '0'."))
12
13 S = int(input("Enter either a '0' or '1' as a
   starting state."))
14 RecLoc.append(S)
15
16 for i in range(24):
17
       r = random.uniform(0, 1)
       if S == 0 and r < p_A:
18
            S = 1
19
20
       elif S == 1 and r < q_B:
21
           S = \emptyset
22
       RecLoc.append(S)
23
24 for i in RecLoc:
       print(i, end=' ')
25
26
```