

```

1 package club.westcs.NifflerCeciliaB;
2
3 import java.util.Random;
4
5 public class Dice {
6
7     //Attributes
8     private Random rand;
9     private double chance;
10
11     //Constructor
12     public Dice() {
13         rand = new Random();
14         chance = 1.0;
15     }
16
17     //Methods
18     public boolean roll() {
19         int val = rand.nextInt(6) + 1; // random number between 1-6
20         if(this.chance >= val) { // the dice has rolled a number that corresponds to probability that the pet does the thing
21             if(this.chance < 6) { // probability is not 100%
22                 this.chance++; //probability goes up by 1/6th
23             }
24             return true; //yes do the trick
25         }
26         return false; // no the pet failed
27     }
28
29     public String getProb() {
30         int num = (int)((this.chance / 6.0) * 100);
31         return num + "%";
32     }
33 }

```