

```
1  import java.util.*;
2  /**
3   * Random order for Array and ArrayList
4   * probability
5   */
6  public class SummaryRandom
7  {
8      /**
9       * Random order for array
10      */
11     public static void randomArr(int[] arr)
12     {
13         for(int i=arr.length-1;i>=0;i--){
14             int rand=(int) (Math.random()*i);
15             int temp=arr[rand];
16             arr[rand]=arr[i];
17             arr[i]=temp;
18         }
19     }
20
21     /**
22      * Random order for array
23      */
24     public static void randomArrList(ArrayList<Integer> al)
25     {ArrayList<Integer> res=new ArrayList<Integer>();
26         while(al.size()>0){
27             int rand=(int) (Math.random()*al.size());
28             res.add(al.remove(rand));
29         }
30         while(res.size()>0){
31             al.add(res.remove(0));
32         }
33     }
34
35     /**
36      * The probabilty of return red,blue,green is 1:2:3
37      * 1+2+3=6
38      * 0<=rand<6
39      */
40     public static String probRatio()
41     {int rand=(int) (Math.random()*6);
42         if(rand==0){
43             return "Red";
44         }else if(rand==1||rand==2){
45             return "Blue";
46         }else{
47             return "Green";
48         }
49     }
50 }
51
52
53
```