```
import java.util.Random;
/**
* Computes some statistics about families in which the parents decide
* to have children until they have at least one child of each gender.
* The program expects to get two command-line arguments: an int value
        that determines how many families to simulate, and an int value
* that serves as the seed of the random numbers generated by the program.
* Example usage: % java OneOfEachStats 1000 1
*/
public class OneOfEachStats {
        public static void main (String[] args) {
               // Gets the two command-line arguments
               int T = Integer.parseInt(args[0]);
               int seed = Integer.parseInt(args[1]);
               // Initailizes a random numbers generator with the given seed value
    Random generator = new Random(seed);
        double rnd = generator.nextDouble();
        int counter = 0;
        int children2 = 0;
        int children3 = 0;
        int childrenmax = 0;
        boolean b = false;
        boolean g = false;
        double avrage = 0;
        // main loop runs the amount of times the user sets
        for(int i = 0; i < T; i++){
                //while loop runs the test to see how many children are in the family to have a boy
and a gril
               while(!b || !g){
```

```
if(rnd > 0.5){
                     b = true;
             }
             else{
                     g = true;
             }
             counter ++;
             rnd = generator.nextDouble();
     }
     //puts the amount of kids in a family in their catagory
     if(counter == 2) children2 ++;
     if(counter == 3) children3 ++;
     if(counter >= 4) childrenmax ++;
     // resets the varubals so that the test can run again
     rnd = generator.nextDouble();
     b = false;
g = false;
     avrage = avrage + counter;
counter = 0;
     }
     // printing the results of how many families are in each category
     avrage = (double)avrage/(double)T;
     System.out.println("Avrege: " + avrage + " children to get at least one of each gender.");
     System.out.println("Number of families with 2 children: " + children2);
     System.out.println("Number of families with 3 children: " + children3);
     System.out.println("Number of families with 4 or more children: " + childrenmax);
```

```
// determens and prints the most fruquent catagory of family
       if((children2 > children3) && (children2 > childrenmax)){
               System.out.println("The most common number of children is 2.");
       }
               else{
                       if(children3 > childrenmax){
                                       System.out.println("The most common number of children is
3.");
                       }
                       else{
                                       System.out.println("The most common number of children is
4 or more children.");
                       }
               }
}
}
```