```
Perfect.java × | OneOfEach.java × | s.java × | + ▼
1  public class Divisors {
2    public static void main(String[] args)
3    int a = Integer.parseInt(args[0]);
5    for (int i = 1; i <= a; i++) {
6     if ( (a % i) == 0) {
7       System.out.println(i);
8     }
9    }
10
11  }
12  }
13</pre>
```

```
public class InOrder {
   public static void main(String[] args) {
     int randFirst = (int)(Math.random()*(10));
     int randSecond = 0;

   while (randFirst >= randSecond){
        System.out.println(randFirst);
        randSecond = randFirst;
        randFirst = (int)(Math.random()*(10));
   }
}
```

```
public class Perfect {
    public static void main(String[] args) {
        int a = Integer.parseInt(args[0]);
        int sum = 0;
String action = "";
        String fin = "";
        for (int i = 1; i < a; i++) {
  if ( (a % i) == 0){
                sum = sum + i;
                action = action + i + " + ";
        }
        if (sum == a) {
            for (int i = 0; i < action.length() - 2; <math>i++) {
                 fin = fin + action.charAt(i);
            }
            System.out.println( a + " is a perfect number since " + a + " = " + fin);
        else {
            System.out.println( a + " is not a perfect number");
```

```
import java.util.Random;
public class OneOfEachStats {
    public static void main(String[] args) {
            int T = Integer.parseInt(args[0]);
int seed = Integer.parseInt(args[1]);
Random generator = new Random (seed);
           int families2 = 0;
int families3 = 0;
int families4 = 0;
int child = 0;
int common = 0;
int ava = 0;
            int avg = 0;
                  child = 1;
                  double first = generator.nextDouble();
double gender = first;
                        while ((int)(gender*2) == (int)(first*2)) {
                              gender = generator.nextDouble();
                             child ++;
                  if (child == 2){
                        families2 ++;
                  else if (child == 3){
                        families3 ++;
                  else {
                        families4 ++;
                  avg = avg + child;
```

```
while ((int)(gender*2) == (int)(first*2)) {
    gender = generator.nextDouble();
    child ++;
    }
    if (child == 2){
        families2 ++;
    }
    else if (child == 3){
        families3 ++;
    }
    avg = avg + child;

double avarege = ((double)(avg) / (double) (7));
    System.out.println("Average: " + avarege + " children to get at least one of each gender.");
    System.out.println("Number of families with 2 children: " + families2);
    System.out.println("Number of families with 3 children: " + families3);
    System.out.println("Number of families with 4 or more children: " + families4);
    if ((families2 > families3)&(families2 > families4)) {
        System.out.println("The most common number of children is 2.");
    }
    else if ((families3 > families2)&(families3 > families4)) {
        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.");
    }
}
```