```
public class Divisors {
   public static void main(String[] args) {

   int num1 = Integer.parseInt (args[0]);
   int i = 1;
   while (i <= num1){
      if ((num1 % i) == 0){
            System.out.println(i);
      }
      i++;
   }
}</pre>
```

```
public class Reverse {
   public static void main(String[] args) {
        String str = args[0];
        for (int i = 0; i < str.length(); i++){

            System.out.print(str.charAt(str.length() - i -1));
        }
        System.out.println();

        if ( str.length() % 2 != 0){
            System.out.println("The middle character is " +
        str.charAt((str.length() - 1 ) / 2));

        }else {
            System.out.println("The middle character is " +
        str.charAt(((str.length() ) / 2)-1));//
        }
    }
}</pre>
```

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

      System.out.print(num + " ");
      do{
        temp = num;
      num = (int)(Math.random()*10);
      if (temp <= num){
            System.out.print(num + " ");
        }
    }
} while (temp <= num);</pre>
```

```
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 rnd = new Random(seed);
    int family2 = 0;
    int family3 = 0;
    int family4More = 0;
    String str = "";
    double p = 0;
    int count = 1;
    double sum = 0;
    for (int i = 0; i < T; i++){
        str = "";
        count = 1;
        p = rnd.nextDouble();
        if (p < 0.5){
            while (p < 0.5){
                p = rnd.nextDouble();
                count++;
                str += "b ";
        }else{
            while (p >= 0.5){
                p = rnd.nextDouble();
                count++;
                str += "g ";
        if ((str.charAt(str.length()-2) == 'g')){
            str += "b";
        }else {
            str += "g";
        sum += count;
        if (count == 2) {
           family2++;
```

```
} else if (count == 3) {
            family3++;
        } else if (count >= 4) {
           family4More++;
    double Average = sum/T;
    System.out.println("Average: " + Average + " children to get at least one
of each gender.");
    System.out.println("Number of families with 2 children: " + family2 );
    System.out.println("Number of families with 3 children: " + family3 );
    System.out.println("Number of families with 4 or more children: " +
family4More );
   if (family2 > family3 && family2 > family4More ){
        System.out.println("The most common number of children is 2.");
    }else if (family3 > family2 && family3 > family4More ){
       System.out.println("The most common number of children is 3.");
    }else if (family2 >= family3 || family2 >= family4More ){
        System.out.println("The most common number of children is 2.");
    }else if (family3 >= family4More){
       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.");
```