```
public class Divisors {
    public static void main (String[] args) {
        int num = Integer.parseInt(args[0]);
        for(int i=1; i<=num; i++){
            if (num % i == 0) {
                System.out.println(i);
            }
        }
    }
}</pre>
```

```
public class Reverse {
    public static void main (String[] args){
        String s =args[0];
        for(int i=s.length()-1; i>=0; i--){
            System.out.print(s.charAt(i));
        }
        System.out.println();
        if (s.length()%2==0) {
            System.out.println("The middle character is "+
        s.charAt(s.length()/2 - 1));
        }else{
            System.out.println("The middle character is "+
        s.charAt(s.length()/2));
        }
    }
}
```

```
public class InOrder {
    public static void main (String[] args) {
        int time = (int)(10*Math.random() + 1); // בדוק כמה פעמים
        int firstnum=(int)(10*Math.random());
        int num=0;
        System.out.print(firstnum);
        System.out.print(" ");
        int i=1;
        while (i<time) {
            num = (int)(10*Math.random());
            if (num>=firstnum) {
                System.out.print(num);
                System.out.print(" ");
                firstnum=num;
                i++;
            }
```

```
public class Perfect {
    public static void main (String[] args) {
        int num = Integer.parseInt(args[0]);
        String stringSum = " = 1";
        int sum = 1;
        for(int i=2; i<num; i++){</pre>
            if (num % i == 0) {
                stringSum = stringSum + " + " + i ;
            }
        if (num == sum){
            System.out.println(num + " is a perfect number
since " + num + stringSum);
        } else{
            System.out.println(num + " 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);
        double rnd = generator.nextDouble();
        int familiesNum = T;
        double firstBorn = rnd;
        double girlorboy= generator.nextDouble();
        int sum=1;
        double average=0;
        int twokids=0;
        int treekids=0;
        int fourormorekids=0;
        for(int i=0; i<familiesNum; i++){</pre>
            if(firstBorn>=0 && firstBorn<0.5){</pre>
                 while (girlorboy>0 && girlorboy<0.5) {</pre>
                     girlorboy = generator.nextDouble();
                sum++;
            } else {
                 while (girlorboy>=0.5 && girlorboy<1) {</pre>
                     girlorboy = generator.nextDouble();
                 sum++;
            average+=sum;
            if(sum==2) twokids++;
            if(sum==3) treekids++;
            if(sum>=4) fourormorekids++;
            firstBorn = generator.nextDouble();
            girlorboy = generator.nextDouble();
            sum = 1;
        }
        System.out.println("Average: "+
average/(double)familiesNum + " children to get at least one
of each gender.");
        System.out.println("Number of families with 2
children: "+ twokids);
```

```
System.out.println("Number of families with 3
children: "+ treekids);
        System.out.println("Number of families with 4 or more
children: "+ fourormorekids);
        if (twokids>treekids && twokids>fourormorekids)
System.out.println("The most common number of children is
2.");
        if (twokids>treekids && twokids==fourormorekids)
System.out.println("The most common number of children is
2.");
        if (twokids==treekids && twokids>fourormorekids)
System.out.println("The most common number of children is
2.");
        if (twokids==treekids && twokids==fourormorekids)
System.out.println("The most common number of children is
2.");
        if (treekids>twokids && treekids>fourormorekids)
System.out.println("The most common number of children is
        if (treekids>twokids && treekids==fourormorekids)
System.out.println("The most common number of children is
        if (fourormorekids>twokids && fourormorekids>treekids)
System.out.println("The most common number of children is 4 or
more.");
```