```java
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);
            }
        }
    }
}
```

```java
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));
        }
    }
}
```

```java
public class InOrder {
    public static void main (String[] args) {
        int time = (int)(10*Math.random() + 1); // לבדוק 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++;
            }
        }
    }
}
```

```java
public class DamkaBoard {
    public static void main(String[] args) {
        int n = Integer.parseInt(args[0]);
        for(int i=1; i<=n; i++){
            for(int j=1; j<=n; j++){
                if(i%2==0){
                    System.out.print(" *");
                }else{
                    System.out.print("* ");
                }
            }
            System.out.println();
        }
        System.out.println();
        }

    }
```

```java
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++){
            if (num % i == 0) {
                stringSum = stringSum + " + " + i ;
                sum+=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");
        }
    }
}
```

```java
import java.util.Random;

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]);

        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++){
            if(firstBorn>=0 && firstBorn<0.5){
                 while (girlorboy>0 && girlorboy<0.5) {
                    sum++;
                    girlorboy = generator.nextDouble();
                }
                sum++;
            } else {
                 while (girlorboy>=0.5 && girlorboy<1) {
                    sum++;
                    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);
        int maxin = Math.max(twokids, Math.max(treekids,
fourormorekids));
        if(maxin==twokids) System.out.println("The most common
number of children is 2.");
        if(maxin==treekids) System.out.println("The most
common number of children is 3.");
        if(maxin==fourormorekids) System.out.println("The most
common number of children is 4 or more.");
    }
```