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

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

```
public class InOrder {
       public static void main(String[] args) {
              int x = (int) ((10) * Math.random());
              int i = x;
              int b = x;
              System.out.print(i + " ");
              do {
                      b = i;
                      i = (int) (10 * Math.random());
                      if (i \ge b) {
                             System.out.print(i + " ");
              }
              while (i \ge x \&\& i \ge b);
              }
      }
}
```

```
public class Perfect {
       public static void main(String[] args) {
              int N = Integer.parseInt(args[0]);
              String s = N + " is a perfect number since " + N + " = 1";
              String str2;
              int i;
              int sum = 1;
              for (i = 2; i < N; i++) {
                     if (N % i == 0) {
                             s = s + " + " + String.valueOf(i);
                             sum = sum + i;
                     }
              }
              if(sum -N ==0) {
              System.out.println(s);
       }
              else {
              System.out.println(N + " is not a perfect number");
       }
}
}
```

```
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);
              boolean boy = true;
             boolean girl = true;
             double rnd;
             double count = 0.0;
             int num2 = 0;
             int num3 = 0;
             int num4 = 0;
             int a = 0;
             for (int i = 1; i \le T; i++) {
                    while (boy | girl) {
                            rnd = generator.nextDouble();
                           if (rnd < 0.5) {
                                  boy = false;
                           } else {
                                  girl = false;
                           a++;
                    if (a == 2) {
                           num2 = num2 + 1;
                    } else {
                           if (a == 3) {
                                  num3 = num3 + 1;
                           } else {
                                  num4 = num4 + 1;
                           }
                    count = count + a;
                    a=0;
                    boy = true;
                    girl = true;
             }
              double average = 0.0;
              average = count / T;
              System.out.println("Average: " + average + " children to get at least one of
each gender.");
              System.out.println("Number of families with 2 children: " + num2);
              System.out.println("Number of families with 3 children: " + num3);
              System.out.println("Number of families with 4 or more children: " + num4);
             if ((num2 >= num3) && (num2 >= num4)) {
                     System.out.println("The most common number of children is 2.");
```