```
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 theWord= args[0];
        int theWordLen= theWord.length();
        String newWord = "";
        for (int i = (theWordLen-1) ;i >=0; i--) {
            char theChar = theWord.charAt(i);
            newWord += theChar;
        }
        System.out.println(newWord);
        System.out.println("The middle character is " + newWord.charAt(((theWordLen/2))));
    }
}
```

```
public class InOrder {
   public static void main (String[] args) {
      int firstNum= ((int)(Math.random() * (10)));
      System.out.print(firstNum);
      int secNum = 0;
      do {
        secNum= ((int)(Math.random() * (10)));
        if (secNum > firstNum) {
            System.out.print(" " + secNum);}
        firstNum = secNum;
      } while (secNum > secNum);
   }
}
```

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

```
public static void main (String[] args) {
          int T = Integer.parseInt(args[0]);
         double sumChildren = 0;
          int num2Children = 0;
          int num3Children = 0;
          int numManyChildren =0;
         for (int i = 1;i < T ;i++) {

boolean girl = false; //at list one girl

boolean boy = false; //at list one girl
                    int numChildren = 0;
                   while (girl == false || boy == false) {
    double result = Math.random();
                              if (result > 0.5) {
                                        girl = true;
                                        numChildren += 1;
                                       boy = true;
                                        numChildren += 1;
                               if (numChildren == 2) {
                                      num2Children += 1;
                              }else if (numChildren == 3) {
                                      num3Children += 1;
                              }else if (numChildren > 3) {
                                        numManyChildren += 1;
                              sumChildren += numChildren;
         double avreage = sumChildren/ T;
         System.out.println("Average: " + avreage + " children to get at least one of each gender.");
         System.out.println("Number of families with 2 children: " + num2Children);
System.out.println("Number of families with 3 children: " + num3Children);
System.out.println("Number of families with 4 or more children: " + numManyChildren);
          if (num2Children > num3Children && num2Children > numManyChildren) {
                     System.out.println("The most common number of children is 2.");
          }else if (num3Children > num2Children && num3Children > numManyChildren) {
    System.out.println("The most common number of children is 3.");
          }else if (numManyChildren > num2Children && numManyChildren > num3Children) {
                     System.out.println("The most common number of children is 4 or more.");
         double avreage = sumChildren/ T;
System.out.println("Average: " + avreage + " children to get at least one of each gender.");
System.out.println("Number of families with 2 children: " + num2Children);
System.out.println("Number of families with 3 children: " + num3Children);
System.out.println("Number of families with 4 or more children: " + numManyChildren);
if (num2Children > num2Children > num2Childr
           if (num2Children > num3Children && num2Children > numManyChildren) {
          System.out.println("The most common number of children is 2.");
}else if (num3Children > num2Children && num3Children > numManyChildren) {
                     System.out.println("The most common number of children is 3.");
           }else if (numManyChildren > num2Children && numManyChildren > num3Children) {
                      System.out.println("The most common number of children is 4 or more.");
```