```
//Array Example
public class Number
{
   private int []numbArray;

   //1. Constructs a default  array of size 10
            public Number()
            {
               numbArray = new int[10];
                numbArray[0]=1;
                numbArray[1]=3;
                numbArray[2]=7;
                numbArray[3]=19;
                numbArray[4]=15;
                numbArray[5]=19;
                numbArray[6]=7;
                numbArray[7]=3;
                numbArray[8]=19;
                numbArray[9]=48;
            }

    //2. Constructs an array of random numbers (0-24) array of size count
            public Number(int count)
            {
                  numbArray = new int[count];
                   for (int i = 0; i < count;i++)
                  numbArray[i] = (int) (Math.random()*25);
            }


   //3. This method prints all of the elements of the array in list form
           public void display()
           {

           }

   //4. This method prints all of the elements in reverse order
           public void displayReverse()
           {



           }
```

```
  //5. This method calculates and returns the average of all of the elements
  //     The average of the default array is 14.1
         public double average()
         {

          }

   //6. This method returns the maximum value of all of the elements
  //      The max of the default array is 48.
         public int findMax()
         {

          }

   //7.  This method returns the index number of  the first instance of int lookFor
  //       returns -1  if not in the list
  //       ex.  Using the default array lookfor(15) will return 4
            public int findIndex(int lookFor )
         {

         }

  //  8. This method will print the elements and the tally
   //      The list with the default will be
   //              Number   Frequency
   //                1        1
   //                3        2
   //                7        2
   //               15        1
   //               19        3
   //               48        1

            public void tallyList()
            {

            }
}


//9.   Write a tester class that will create a random array of size 50 and tests all of these
methods.

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

```
        Numbers test = new Numbers(50);

    //your code here

    }
}
```