```java
import java.io.*;

///////////////////////////////////////////////////////////////////////////
//                                                                         //
//          The following program sorts integers as they are given.        //
//                                                                         //
//                         WRITTEN BY:                                     //
//                             ALAIN DADAIAN                               //
//                                                                         //
///////////////////////////////////////////////////////////////////////////


/////////////////////////////////////////////////////////////////
//
// Driver for Homework 12, CS 141, Spring 2001.
//
class Hw12
{
//-----------------------------------------------------------------
   public static void main (String [] args ) throws Exception
   {
      System.out.println("WRITTEN BY ALAIN DADAIAN");
      Sorter s = new Sorter();
      s.display(System.out);
      test(s,1);
      test(s,-5);
      test(s,3);
      test(s,5);
      test(s,5);
      test(s,4);
      test(s,2);
      test(s,1);
      test(s,0);
      test(s,6);
      s.reset();
      test(s,3);
      test(s,2);
      test(s,1);
   }
//-----------------------------------------------------------------
   private static void test ( Sorter s, int i )
   {
      s.store(i);
      s.display(System.out);
   }
//-----------------------------------------------------------------
} // end class Hw12
/////////////////////////////////////////////////////////////////

class Sorter
{
   private int storeInts [];
   private int counter;

   //-----------------------------------------------------------------
   //  The constructor Sorter sets up the array and a counter.
   //-----------------------------------------------------------------
   public Sorter ()
   {
      storeInts = new int [50];
      counter = 0;
   }

   //-----------------------------------------------------------------
   //  Inserts the specified integer in the array in ascending order.
   //-----------------------------------------------------------------
   public void store (int a)
   {
      int counter2 = 0;

      if (counter == 0)
      {
         storeInts[0] = a;
         counter++;
      }
      else
      {
         for (int i = 0; i < counter && counter2 != 1; i++)
            if (a <= storeInts[i])
```

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```java
         {
           for (int j = counter - 1; j >= i; j--)
             storeInts[j+1] = storeInts[j];

           storeInts[i] = a;

           counter2++;
         }

      if (a > storeInts[counter - 1])
         storeInts[counter] = a;

         counter++;
      }

   }

   //---------------------------------------------------------------
   //  Displays the current contents of the Sorter.
   //---------------------------------------------------------------
   public void display (PrintStream ps)
   {
      for (int i = 0; i < counter; i++)
         ps.print(storeInts[i] + " ");

      System.out.println();
   }

   //---------------------------------------------------------------
   //  Resets the Sorter to be empty.
   //---------------------------------------------------------------
   public void reset()
   {
      storeInts = new int [50];
      counter = 0;
   }
}

////////////////////////////////////////////////////////////////////////////
```