package phase1;

public class longestIncreasingSubsequence {

     static int incre\_subseq(int my\_arr[], int arr\_len){

          int seq\_arr[] = new int[arr\_len];

          int i, j, max = 0;

          for (i = 0; i < arr\_len; i++)

             seq\_arr[i] = 1;

          for (i = 1; i < arr\_len; i++)

          for (j = 0; j < i; j++)

          if (my\_arr[i] > my\_arr[j] && seq\_arr[i] < seq\_arr[j] + 1)

          seq\_arr[i] = seq\_arr[j] + 1;

          for (i = 0; i < arr\_len; i++)

          if (max < seq\_arr[i])

          max = seq\_arr[i];

          return max;

       }

       public static void main(String args[]){

          int my\_arr[] = { 25, 20, 68, 59, 35, 76, 97 , 38, 70, 92};

          int arr\_len = my\_arr.length;

          System.out.println("The length of the longest increasing subsequence is " +  incre\_subseq(my\_arr, arr\_len));

       }

    }