```
package com.simplilearn.demo;

public class longestIncreasingSubsequence {

   static int lis(int arr[], int n)
   {
      int lis[] = new int[n];
      int i, j, max = 0;

      for (i = 0; i < n; i++)
         lis[i] = 1;

      for (i = 1; i < n; i++)
         for (j = 0; j < i; j++)
            if (arr[i] > arr[j] && lis[i] < lis[j] + 1)
               lis[i] = lis[j] + 1;
      for (i = 0; i < n; i++)
         if (max < lis[i])
            max = lis[i];

      return max;
   }

   public static void main(String args[])
   {
      int arr[] = { 10, 22, 9, 33, 21, 50, 41, 60 };
      int n = arr.length;
      System.out.println("Length of list is " + lis(arr, n) + "\n");
   }
}
```