package LongestIncreasingSubsequence.com;

public class LIS {

static int longest\_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[] = { 10,22,9,33,21,50,41};

int arr\_len = my\_arr.length;

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

}

}