package com.sl.Assignments.PracticeProject;

/\* A Naive Java Program for LIS Implementation \*/

class LIS {

static int max\_ref; // stores the LIS

static int \_lis(int arr[], int n)

{

if (n == 1)

return 1;

int res, max\_ending\_here = 1;

for (int i = 1; i < n; i++) {

res = \_lis(arr, i);

if (arr[i - 1] < arr[n - 1]

&& res + 1 > max\_ending\_here)

max\_ending\_here = res + 1;

}

if (max\_ref < max\_ending\_here)

max\_ref = max\_ending\_here;

return max\_ending\_here;

}

static int lis(int arr[], int n)

{

max\_ref = 1;

lis(arr, n);

return max\_ref;

}

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 lis is " + lis(arr, n)

+ "\n");

}

}