PROJECT- Longest Increasing Subsequence.

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```
package Project;

import java.util.Arrays;

import java.util.*;

public class Main {

 public static int findLIS(int[] nums) {

 int n = nums.length;

 int[] ss = new int[n];

 int maxLength = 1;

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

 for (int j = 0; j < i; j++) {

 if (nums[i] > nums[j]) {

 ss[i] = Math.max(ss[i], ss[j] + 1);

 maxLength = Math.max(maxLength, ss[i]);

 }

 }

 }

 return maxLength;

 }

 public static void main(String[] args) {

 Scanner sc = new Scanner(System.in);
```

```
 System.out.println("Enter size of an Array Element : ");
 int n =sc.nextInt();
 int arr[] = new int[n];
 System.out.println("Enter Array Element : ");
 for(int i =0 ; i<arr.length; ++i) {
 arr[i]=sc.nextInt();
 }
 int listLength = findLIS(arr);
 System.out.println("Length of Subsequence: " +
listLength);
 }
}
```