

Screenshot of an Eclipse IDE showing a Java program to find the length of the longest increasing subsequence.

Code Editor:

```
1 package phase1;
2
3 public class Longestincreasingsubsequence {
4     static int incre_subseq(int my_arr[], int arr_len){
5         int seq_arr[] = new int[arr_len];
6         int i, j, max = 0;
7         for (i = 0; i < arr_len; i++)
8             seq_arr[i] = 1;
9         for (i = 1; i < arr_len; i++)
10            for (j = 0; j < i; j++)
11                if (my_arr[i] > my_arr[j] && seq_arr[i] < seq_arr[j] + 1)
12                    seq_arr[i] = seq_arr[j] + 1;
13            for (i = 0; i < arr_len; i++)
14                if (max < seq_arr[i])
15                    max = seq_arr[i];
16            return max;
17        }
18    public static void main(String args[]){
19        int my_arr[] = { 21, 69, 60, 36, 77, 98 , 39, 71, };
20        int arr_len = my_arr.length;
21        System.out.println("The length of the longest increasing subsequence is " + incre_subseq(my_ar
22    }
23 }
24
25
26
27
```

Outline:

- phase1
 - Longestincreasingsubsequence
 - incre_subseq(int[], int) : int
 - main(String[]) : void

Console:

```
<terminated> Longestincreasingsubsequence [Java Application] C:\Users\Home\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.exe
The length of the longest increasing subsequence is 4
```

Taskbar: 27°C, 7:45 PM, 3/4/2022