

[All Tracks](#) > [Data Structures](#) > [Arrays](#) > [1-D](#) > Problem

## Hamiltonian and Lagrangian

Attempted by: 11943 / Accuracy: 77% / Maximum Score: 20 /

★★★★☆ 247 Votes

Tag(s): Easy

[PROBLEM](#)[EDITORIAL](#)[MY SUBMISSIONS](#)[ANALYTICS](#)

Students have become secret admirers of SEGP. They find the course exciting and the professors amusing. After a superb Mid Semester examination its now time for the results. The TAs have released the marks of students in the form of an array, where  $arr[i]$  represents the marks of the  $i$ th student.

Since you are a curious kid, you want to find all the marks that are not smaller than those on its right side in the array.

### Input Format

The first line of input will contain a single integer  $n$  denoting the number of students.

The next line will contain  $n$  space separated integers representing the marks of students.

### Output Format

Output all the integers separated in the array from left to right that are not smaller than those on its right side.

### Constraints

 $1 \leq n \leq 1000000$  $0 \leq arr[i] \leq 10000$ Problem Setter - [Dhvit](#)

SAMPLE INPUT	SAMPLE OUTPUT
6 16 17 4 3 5 2	17 5 2

**Time Limit:** 0.5 sec(s) for each input file.**Memory Limit:** 256 MB**Source Limit:** 1024 KB**Marking Scheme:** Marks are awarded when all the testcases pass.**Allowed Languages:** Bash, C, C++, C++14, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Julia, Kotlin, Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Swift, Swift-4.1, TypeScript, Visual Basic

### BEST SUBMISSIONS

LANGUAGE: `C (gcc 5.4.0)`

⌚ TIME (sec)

0.70396

📄 MEMORY (KiB)

64

by [Veni Adabala](#)[VIEW BEST SUBMISSION](#)[VIEW ALL SUBMISSION](#)14  
LIVE EVENTS

### CONTRIBUTOR



AUTHOR

[Dhvit Mehta](#)

### SOCIAL SHARE



?

## CODE EDITOR

Enter your code or [Upload your code](#) as file.

Save

C++14 (g++ 5.4.0)

```
8 // ...
9 cin.tie(NULL);
10 cout.tie(NULL);
11
12 int n;
13 cin>>n;
14 int arr[n];
15 for(int i=0;i<n;i++){
16     cin>>arr[i];
17 }
18
19 int count = 0;
20 for(int i=0; i<n-1;i++){
21     count=n-1-i;
22     for(int j=i+1; j<n; j++){
23         if(arr[i]>=arr[j]){
24             count-=1;
25         }else
26             break;
27     }
28     if(count==0){
29         cout<<arr[i]<<" ";
30     }
31 }
32 cout<<arr[n-1];
33 return 0;
34 }
```

31:3 vscode

☒ Provide custom input

COMPILE &amp; TEST

SUBMIT

Submission ID: 40168574 / 3 seconds ago

RESULT: Accepted

Score	Time (sec)
20.0	0.7119

Memory (KiB)	Language
64	C++14

Input	Result	Time (sec)	Memory (KiB)	Score	Your Output	Correct Output	Diff
Input #1		0.101454	64	5			

14

LIVE EVENTS

?

Input #2	✓	0.101253	64	5			
Input #3	✓	0.101921	64	10			
Input #4	✓	0.101258	64	20			
Input #5	✓	0.102033	64	20			
Input #6	✓	0.102183	64	20			
Input #7	✓	0.101793	64	20			
<b>Compilation Log</b> Compilation Successful.							

14  
LIVE EVENTS

Your Rating: ★★★★★

[View all comments](#)

## PROGRAMMERS WHO SOLVED THIS PROBLEM ALSO SOLVED

## Micro And Array Update

Attempted By: 31359 / Accuracy: 72

★★★★☆ 752 Votes

## Monk And Rotation

Attempted By: 16565 / Accuracy: 90

★★★★☆ 231 Votes

## Pairs Having Similar El...

Attempted By: 2574 / Accuracy: 29

★★★★☆ 62 Votes

?

---

	For Developers	Developer Resources	For Business	Company
<div>+1-650-461-4192</div> <div>contact@hackerearth.com</div> <div><div><div>f</div><div>twitter</div><div>in</div></div><div>▶</div></div>	Practice programming	Developers blog	Assess developers	About us <sup>14</sup>
	Complete reference to competitive programming	Learn to code by competitive programming	Conduct remote interviews	Press
	Competitive coding challenges	Developers wiki	Assess university talent	Careers
	Code Monk	How to conduct a hackathon	Organize hackathon	Contact us
	Start a programming club			Technical support

LIVE EVENTS

---

Site Language: English

| © 2020 HackerEarth All rights reserved | Terms of Service | Privacy Policy

?