



## Popular Company Tags

- Amazon
- Microsoft
- Oracle
- Samsung
- Adobe
- Synopsys
- Infosys
- Cisco
- Wipro
- Ola-Cabs
- Morgan-Stanley
- Goldman-Sachs
- show more

## Popular Topic Tags

- Maths
- Array
- Dynamic-Programming
- Greedy-Algorithm
- Hashing
- Tree
- Bit-Algorithm
- Matrix
- Backtracking
- Operating System
- Linked-List
- Graph
- show more

- Bit-Algorithm
- Matrix
- Backtracking
- Operating System
- Linked-List
- Graph
- show more

## Immediate Smaller Element

Submissions: 83044 Accuracy: 41.71% Difficulty: Basic Marks: 1

Show Topic Tags

Company Tags

Amazon

## Problems

Given an integer array of size **N**. For each element in the array, check whether the right adjacent element (on the next immediate position) of the array is smaller. If next element is smaller, print that element. If not, then print -1.

## Input:

The first line of input contains an integer **T** denoting the number of test cases. **T** testcases follow. Each testcase contains 2 lines of input:

The first line contains an integer **N**, where **N** is the size of array.

The second line contains **N** integers(elements of the array) sperated with spaces.

## Output:

For each test case, print the next immediate smaller elements for each element in the array.

## Constraints:

$$1 \leq T \leq 200$$

$$1 \leq N \leq 10^7$$

$$1 \leq \text{arr}[i] \leq 1000$$

## Example:

## Input

```
2
5
4 2 1 5 3
6
5 6 2 3 1 7
```

## Output

```
2 1 -1 3 -1
-1 2 -1 1 -1 -1
```

## Explanation:

Testcase 1: Array elements are 4, 2, 1, 5, 3. Next to 4 is 2 which is smaller, so we print 2. Next of 2 is 1 which is smaller, so we print 1. Next of 1 is 5 which is greater, so we print -1. Next of 5 is 3 which is smaller so we print 3. Note that for last element, output is always going to be -1 because there is no element on right.

\*\* For More Input/Output Examples Use 'Expected Output' option \*\*

Author: rajatjha

Editorial

My Submissions

All Submissions

## Weekly

## Monthly

## Overall

baby_jk	124
Extra	114
NehaJain11640600	93
Gurleenkaurilal	92
ARUN_PUNDIR	92

Leaderboard (Overall) &gt;&gt;

## Your Rank In Institute

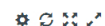
Vellore Institute of Technology (VIT University)

Rank	Score
2929	0

\* Institute ranks are refreshed in every 3 hours

Theme Light

C++ (g++ 5.4)



```
1 #include<iostream>
2 #include<vector>
3 using namespace std;
4 int main()
5 {
6     int n;
7     int t;
8     int arr[1000];
9     int res[1000];
10    int p=0;
11    cin>>t;
12    int i,j,k;
13    vector<vector<int>> >imp;
14    vector<int>temp;
15    for(i=0;i<t;i++)
16    {
17        cin>>n;
18        for(j=0;j<n;j++)
19        {
20            cin>>arr[j];
21        }
22        for(k=0;k<=n;k++)
23        {
24            int num1;
25            int num2;
```

☐ Test against custom input

Expected Outcome

Compile &amp; Test

Submit

If you have purchased any [course](#) from GeeksforGeeks then please ask your doubt on course discussion forum. You will get quick replies from GFG Moderators there.

Need help with your code? Please use [ide.geeksforgeeks.org](https://ide.geeksforgeeks.org), generate link and share the link here.



🚩 Report An Issue

If you are facing any issue on this page, Please let us know.

**GeeksforGeeks**  
A computer science portal for geeks

5th Floor, A-118,  
Sector-136, Noida, Uttar Pradesh - 201305  
[feedback@geeksforgeeks.org](mailto:feedback@geeksforgeeks.org)

#### COMPANY

[About Us](#)  
[Careers](#)  
[Privacy Policy](#)  
[Contact Us](#)

#### LEARN

[Algorithms](#)  
[Data Structures](#)  
[Languages](#)  
[CS Subjects](#)  
[Video Tutorials](#)

#### PRACTICE

[Courses](#)  
[Company-wise](#)  
[Topic-wise](#)  
[How to begin?](#)

#### CONTRIBUTE

[Write an Article](#)  
[Interview Experience](#)  
[Internships](#)  
[Videos](#)