

[Home](#) » [Practice\(Beginner\)](#) » Peak Finding

Peak Finding

Problem Code: **UWCOI20A**

Submit



[Tweet](#) [Like](#) [Share](#) [Sign Up to see what your friends like.](#)

All submissions for this problem are available. Well known investigative reporter Kim "Sherlock" Bumjun needs your help! Today, his mission is to sabotage the operations of the evil JSA. If the JSA is allowed to succeed, they will use the combined power of the WQS binary search and the UFDS to take over the world!

But Kim doesn't know where the base is located. He knows that the base is on the highest peak of the Himalayan Mountains. He also knows the heights of each of the N mountains. Can you help Kim find the height of the mountain where the base is located?

Input:

- First line will contain T , number of testcases. Then the testcases follow.
- The first line in each testcase contains one integer, N .
- The following N lines of each test case each contain one integer: the height of a new mountain.

Output:

For each testcase, output one line with one integer: the height of the tallest mountain for that test case.

Constraints

- $1 \leq T \leq 10$
- $1 \leq N \leq 100000$
- $0 \leq \text{height of each mountain} \leq 10^9$

Subtasks:

- 100 points: No additional constraints.

Sample Input:

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

Sample Output:

```
7
```

Author: [astoria](#)

Editorial: <https://discuss.codechef.com/problems/UWCOI20A>

Tags: [astoria](#), [cakewalk](#), [uwcoi20](#)

Date Added: 24-02-2020

Time Limit: 1 secs

Source Limit: 50000 Bytes

Languages: C, CPP14, JAVA, PYTH, PYTH 3.6, PYPY, CS2, PAS fpc, PAS gpc, RUBY, PHP, GO, NODEJS, HASK, rust, SCALA, swift, D, PERL, FORT, WSPC, ADA, CAML, ICK, BF, ASM, CLPS, PRLG, ICON, SCM qobi, PIKE, ST, NICE, LUA, BASH, NEM, LISP sbcl, LISP clisp, SCM guile, JS, ERL, TCL, SQL, kotlin, PERL6, TEXT, CPP17, SCM chicken, PYP3, CLOJ, R, COB, FS

Submit

My Submissions

All Submissions

Successful Submissions

+

Comments ►

CodeChef is a non-commercial competitive programming community.

[About CodeChef](#) | [CEO's Corner](#) | [Contact Us](#)

CodeChef uses SPOJ © by [Sphere Research Labs](#)
In order to report copyright violations of any kind, send in an email to copyright@codechef.com

The time now is: 09:26:11 PM
Your IP: 157.46.117.168

CodeChef - A Platform for Aspiring Programmers

CodeChef was created as a platform to help programmers make it big in the world of **algorithms**, **computer programming**, and **programming contests**. At CodeChef we work hard to revive the geek in you by hosting a **programming contest** at the start of the month and two smaller programming challenges at the middle and end of the month. We also aim to have training sessions and discussions related to **algorithms**, **binary search**, technicalities like **array size** and the likes. Apart from providing a platform for **programming competitions**, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of **computer programming**.

Practice Section - A Place to hone your 'Computer Programming Skills'

Try your hand at one of our many practice problems and submit your solution in the language of your choice. Our **programming contest** judge accepts solutions in over 55+ programming languages. Preparing for coding contests were never this much fun! Receive points, and move up through the CodeChef ranks. Use our practice section to better prepare yourself for the multiple **programming challenges** that take place through-out the month on CodeChef.

Compete - Monthly Programming Contests, Cook-off and Lunchtime

Here is where you can show off your **computer programming skills**. Take part in our 10 days long monthly coding contest and the shorter format Cook-off and Lunchtime **coding contests**. Put yourself up for recognition and win great prizes. Our **programming contests** have prizes worth up to INR 20,000 (for Indian Community), \$700 (for Global Community) and lots more CodeChef goodies up for grabs.

Programming Tools

[Online IDE](#)
[Upcoming Coding Contests](#)
[Contest Hosting](#)
[Problem Setting](#)
[CodeChef Tutorials](#)
[CodeChef Wiki](#)

Practice Problems

[Easy](#)
[Medium](#)
[Hard](#)
[Challenge](#)
[Peer](#)
[School](#)
[FAQ's](#)

Initiatives

[Go for Gold](#)
[CodeChef for Schools](#)
[Campus Chapters](#)
[CodeChef for Business](#)

Policy.

[Terms of Service](#)
[Privacy Policy](#)
[Refund Policy](#)
[Code of Conduct](#)
[Bug Bounty Program](#)