



[Home \(/\)](#) » [Compete \(/contests/\)](#) » [Samsung Hiring Challenge \(/SGHC2018?order=desc&sortBy=succesful_submissions\)](#) » The Largest Good Subarray

The Largest Good Subarray

Problem Code: **LGOODSUB**



Tweet



129 people like this. [Sign Up](#) to see what your friends

([@piyush7783](https://twitter.com/piyush7783)).

[Submit \(/SGHC2018/submit/LGOODSUB\)](#)

You are given an array a with n integers. A subarray is any subset of consecutive elements from this array. Let us call a subarray good if its first element is greater than or equal to the last element.

For example, if the given array is $(2, 5, 1, 6, 4, 7)$, then $(5, 1, 6)$ is a subarray, but it is not a good subarray because 5 is lesser than 6. But the subarray $(5, 1, 6, 4)$ is good, because $5 \geq 4$.

Find out the length of the largest good subarray.

My Submissions

(/SGHC2018/status/LGOODSUB/piyush7783)

All Submissions

(/SGHC2018/status/LG)

Successful Submissions



Input

- The first line of the input contains an integer T denoting the number of test cases. The description of the test cases follows.
- The first line of each test case contains an integer n .
- The second line of each test case contains n space separated integers denoting the array a .

Output

- For each test case, output an integer corresponding to the answer of the problem.

Constraints

- $1 \leq T \leq 10$
- $1 \leq n \leq 10^5$
- $1 \leq a_i \leq 10^9$

Information to score partial points

- For 30% of the score: $1 \leq n \leq 10^3$
- Remaining 70%: No extra constraints.

Sample Input

```
2
6
2 5 1 6 4 7
9
4 4 6 3 4 7 3 5 5
```

Sample Output

```
4
7
```

Explanation

Example case 1: The largest good subarray is $(5, 1, 6, 4)$.

Example case 2: One of the largest good subarrays is $(6, 3, 4, 7, 3, 5, 5)$. Another such largest good subarray is $(4, 4, 6, 3, 4, 7, 3)$.

Author: [admin2 \(/users/admin2\)](#)

Date Added: 14-07-2018

Time Limit: 2.5 secs

Source Limit: 50000 Bytes

Languages: C, CPP14, JAVA, PYTH, PYTH 3.5, 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, kotlin, PERL6, TEXT, SCM chicken, CLOJ, COB, FS

[Submit \(/SGHC2018/submit/LGOODSUB\)](#)

Comments ▶

[CodeChef is a non-commercial competitive programming community.](#)

[About CodeChef \(http://www.codechef.com/aboutus/\)](#) [About Directi \(http://www.directi.com/\)](#) [CEO's Corner \(http://www.codechef.com/ceoscorner/\)](#)
[C-Programming \(http://www.codechef.com/c-programming\)](#) [Programming Languages \(http://www.codechef.com/Programming-Languages\)](#) [Contact Us \(http://www.codechef.com/contactus\)](#)

© 2009 Directi Group ([http://directi.com](#)). All Rights Reserved. CodeChef uses SPOJ © by [Sphere Research Labs \(http://www.sphere-research.com\)](#)
In order to report copyright violations of any kind, send in an email to copyright@codechef.com (<mailto:copyright@codechef.com>).

Directi (<http://directi.com>)
Intelligent People. Uncommon Ideas.

The time now is: 11:47:32 PM
Your IP: 45.64.238.109

<http://www.codechef.com>) - 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 another smaller programming challenge in the middle 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**.

<https://www.codechef.com/problems/easy>) - A Place to hone your 'Computer Programming Skills'

Try your hand at one of our many practice problems and submit your solution in a language of your choice. Our **programming contest** judge accepts solutions in over 35+ 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.

<https://www.codechef.com/problems/easy>) - Monthly Programming Contests and Cook-offs

Here is where you can show off your **computer programming skills**. Take part in our 10 day long monthly coding contest and the shorter format Cook-off **coding contest**. 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 \(https://www.codechef.com/ide\)](https://www.codechef.com/ide)
[Upcoming Coding Contests \(http://www.codechef.com/contests#FutureContests\)](http://www.codechef.com/contests#FutureContests)
[Contest Hosting \(http://www.codechef.com/hostsyourcontest\)](http://www.codechef.com/hostsyourcontest)
[Problem Setting \(http://www.codechef.com/problemsetting\)](http://www.codechef.com/problemsetting)
[CodeChef Tutorials \(http://www.codechef.com/wiki/tutorials\)](http://www.codechef.com/wiki/tutorials)
[CodeChef Wiki \(https://www.codechef.com/wiki\)](https://www.codechef.com/wiki)

[Practice Problems](#)

[Easy \(https://www.codechef.com/problems/easy\)](https://www.codechef.com/problems/easy)
[Medium \(https://www.codechef.com/problems/medium\)](https://www.codechef.com/problems/medium)
[Hard \(https://www.codechef.com/problems/Hard\)](https://www.codechef.com/problems/Hard)
[Challenge \(https://www.codechef.com/problems/challenge\)](https://www.codechef.com/problems/challenge)
[Peer \(https://www.codechef.com/problems/extcontest\)](https://www.codechef.com/problems/extcontest)
[School \(https://www.codechef.com/problems/school\)](https://www.codechef.com/problems/school)
[FAQ's \(https://www.codechef.com/wiki/faq\)](https://www.codechef.com/wiki/faq)

[Initiatives](#)

[Go for Gold \(http://www.codechef.com/goforgold\)](http://www.codechef.com/goforgold)
[CodeChef for Schools \(http://www.codechef.com/school\)](http://www.codechef.com/school)
[Campus Chapters \(http://www.codechef.com/campus_chapter/about\)](http://www.codechef.com/campus_chapter/about)