

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

H. Compiler_101

time limit per test: 2 seconds🕒
memory limit per test: 256 megabytes

Compiler_101 read a book about bitwise operation and learned that the value of the subarray $[L,R]$ is equal to $F(L, R)$.

Where $F(L, R)$ is calculated as an operation of bitwise OR of all the elements with indexes from L to R. Formally:
 $F(L, R) = a_L \mid a_{L+1} \mid \dots \mid a_R$.

One day he got an array a of length n and wondered what is the smallest length of **non-empty** contiguous subarray where the value is maximal.

Input
The first line contains n ($1 \leq n \leq 3 \times 10^5$)

The second line contains n space separated integers, the array a ($0 \leq a_i \leq 10^9$)

Output
single integer the subarray length.


Example

input	Copy
5 0 3 0 4 0	
output	Copy
3	

ICPC Assiut University Training - Juniors Phase 1 Sheets-2022

Public

Participant




→ Group Contests

- Juniors Phase 1 Practice #5 (Bitmask, Bitset, Bits)
- Juniors Phase 1 Practice #4 (Binary search , Two pointers)
- Juniors Phase 1 Practice #3 (STL 2)
- Juniors Phase 1 Practice #2 (STL 1)
- Juniors Phase 1 Practice #1 (Prefix sum , Frequency Array)

Juniors Phase 1 Practice #5 (Bitmask, Bitset, Bits)

Finished

Practice



→ About Time Scaling

This contest uses time limits scaling policy (depending on a programming language). The system automatically adjusts time limits by the following multipliers for some languages. Despite scaling (adjustment), the time limit cannot be more than 30 seconds. Read the details by the [link](#).

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Submit?

Language: GNU G++20 13.2 (64 bit, win

Choose file: Choose File No file chosen

Submit

→ Last submissions

Submission	Time	Verdict
234855535	Nov/29/2023 02:25	Accepted
234854162	Nov/29/2023 01:46	Accepted
234854101	Nov/29/2023 01:44	Wrong answer on test 2