

### A. Array Without Local Maximums

time limit per test: 2 seconds

memory limit per test: 512 megabytes

input: standard input

output: standard output

Ivan unexpectedly saw a present from one of his previous birthdays. It is array of  $n$  numbers from 1 to 200. Array is old and some numbers are hard to read. Ivan remembers that for all elements at least one of its neighbours is not less than it, more formally:

$$a_1 \leq a_2,$$

$$a_n \leq a_{n-1} \text{ and}$$

$$a_i \leq \max(a_{i-1}, a_{i+1}) \text{ for all } i \text{ from } 2 \text{ to } n - 1.$$

Ivan does not remember the array and asks to find the number of ways to restore it. Restored elements also should be integers from 1 to 200. Since the number of ways can be big, print it modulo 998244353.

#### Input

First line of input contains one integer  $n$  ( $2 \leq n \leq 10^5$ ) — size of the array.

Second line of input contains  $n$  integers  $a_i$  — elements of array. Either  $a_i = -1$  or  $1 \leq a_i \leq 200$ .  $a_i = -1$  means that  $i$ -th element can't be read.

#### Output

Print number of ways to restore the array modulo 998244353.

#### Examples

input	Copy
3	
1 -1 2	
output	Copy
1	

input	Copy
2	
-1 -1	
output	Copy
200	

#### Note

In the first example, only possible value of  $a_2$  is 2.

In the second example,  $a_1 = a_2$  so there are 200 different values because all restored elements should be integers between 1 and 200.

Codeforces Round #518 (Div. 1)

[Thanks, Mail.Ru!]

Finished

Practice

#### 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 ACM-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

#### Practice

You are registered for practice. You can solve problems unofficially. Results can be found in the contest status and in the bottom of standings.

#### Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

#### Submit?

Language: GNU G++11 5.1.0

Choose file: 

选择文件

 未选择任何文件

Be careful: there is 50 points penalty for submission which fails the pretests or resubmission (except failure on the first test, denial of judgement or similar verdicts). "Passed pretests" submission verdict doesn't guarantee that the solution is absolutely correct and it will pass system tests.

Submit

#### Last submissions



Submission	Time	Verdict
<a href="#">58423788</a>	Aug/07/2019 11:49	Accepted

#### Problem tags

dp \*2000

No tag edit access

#### Contest materials

- [Announcement \(en\)](#) 
- [Tutorial \(en\)](#) 

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