

HOME TOP CONTESTS GYM PROBLEMSET GROUPS RATING API HELP CALENDAR

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS ROOM STANDINGS CUSTOM INVOCATION

A. City Day

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

For years, the Day of city N was held in the most rainy day of summer. New mayor decided to break this tradition and select a *not-so-rainy* day for the celebration. The mayor knows the weather forecast for the n days of summer. On the i-th day, a_i millimeters of rain will fall. All values a_i are distinct.

The mayor knows that citizens will watch the weather x days before the celebration and y days after. Because of that, he says that a day d is not-so-rainy if a_d is smaller than rain amounts at each of x days before day d and and each of y days after day d. In other words, $a_d < a_j$ should hold for all $d-x \le j < d$ and $d < j \le d+y$. Citizens only watch the weather during summer, so we only consider such j that $1 \le j \le n$.

Help mayor find the earliest not-so-rainy day of summer.

Input

The first line contains three integers n, x and y ($1 \le n \le 100\,000$, $0 \le x, y \le 7$) — the number of days in summer, the number of days citizens watch the weather before the celebration and the number of days they do that after.

The second line contains n distinct integers a_1 , a_2 , ..., a_n ($1 \le a_i \le 10^9$), where a_i denotes the rain amount on the i -th day.

Output

Print a single integer — the index of the earliest *not-so-rainy* day of summer. We can show that the answer always exists.

Examples

input	Сору
10 2 2 10 9 6 7 8 3 2 1 4 5	
output	Сору
3	
input	Сору
10 2 3 10 9 6 7 8 3 2 1 4 5	
output	Сору
8	

input	Сору
5 5 5 100000 10000 1000 100 10	
output	Сору
5	

Note

In the first example days 3 and 8 are *not-so-rainy*. The 3 -rd day is earlier.

In the second example day 3 is not *not-so-rainy*, because 3+y=6 and $a_3>a_6$. Thus, day 8 is the answer. Note that 8+y=11, but we don't consider day 11, because it is not summer.

Codeforces Round #576 (Div. 2)

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



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

ightarrow Last submissions			
Submission	Time	Verdict	
<u>58068899</u>	Jul/31/2019 12:53	Accepted	
58068843	Jul/31/2019 12:52	Compilation	



→ Contest materials

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• Tutorial (en)

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