

★ Rating changes for last rounds are temporarily rolled back. They will be returned soon.

[PROBLEMS](#) [SUBMIT CODE](#) [MY SUBMISSIONS](#) [STATUS](#) [STANDINGS](#) [CUSTOM INVOCATION](#)

C. Replacement

time limit per test: 1 second

memory limit per test: 256 megabytes

Given a number N and an array A of N numbers. Print the array after doing the following operations:

- Replace every **positive** number by 1.
- Replace every **negative** number by 2.

Input

First line contains a number N ($2 \leq N \leq 1000$) number of elements.

Second line contains N numbers ($-10^5 \leq A_i \leq 10^5$).

Output

Print the array after the **replacement** and it's values separated by space.

Example

input	Copy
5	
1 -2 0 3 4	
output	Copy
1 2 0 1 1	

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→ About Group



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→ Group Contests

- Sheet #10 (General Hard)
- Sheet #9 (General medium)
- Sheet #8 (General easy)
- Sheet #7 (Recursion)
- Sheet #6 (Math - Geometry)
- Sheet #5 (Functions)
- Sheet #4 (Strings)
- Contest #3.1
- Sheet #3 (Arrays)
- Contest #2
- Sheet #2 (Loops)
- Contest #1
- Sheet #1 (Data type - Conditions)

Sheet #3 (Arrays).**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++23 14.2 (64 bit, ms)

Choose file: [Choose File](#) No file chosen[Submit](#)**→ Contest materials**

- Statements in PDF (en)
- Statements in PDF (en)

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