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The Virtual Learning Environment for Computer Programming

Frequent Opposite-Supported Numbers X78889_en

Given a sequence of integers, we say that an integer n is opposite-supported in the sequence if both n and -n appear in it. Write a program that finds a frequent opposite-supported number in a sequence.

Input

Input starts with a non-negative integer k that indicates the desired frequency. Then, a sequence of integers follows, possibly distributed along several lines.

Output

Write the absolute value of the first integer in the sequence that is found both to appear at least k times in it and to be opposite-supported in it. Write "NONE" if no such integer is found.

Sample input 1	Sample output 1
3 1 -2 3 -1 2 1 -3 1	1
Sample input 2	Sample output 2
33 1 -2 3 -1 2 1 -3 1	NONE
Sample input 3	Sample output 3
3 -5 -5 -6 -6 -5 7 6 -6 7 -7 5 7	6
Sample input 4	Sample output 4

Problem information

Author : José Luis Balcázar Generation : 2024-07-10 00:09:25

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