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Description

Given an integer array a ,
Check whether there exist exactly 4 integers the sum of which is 0.

Input Format

The input begins with an integer n , indicating the length of a .
The next line contains a_1, \dots, a_n .

- $4 \leq n \leq 2500$
- $-2^{29} \leq a_i < 2^{29}$

Output Format

Output 1 if there exist exactly 4 integers the sum of which is 0, otherwise output 0.

Sample Input #1

6
-2 7 1 -8 2 8



Sample Output #1

1



Sample Input #2

8
1 2 3 4 5 6 7 8



Sample Output #2