## Good

You are given a sequence $A$ consisting of $N$ integers (not to be confused with the sequence from a previous
task). We will call the $\mathrm{i}^{\text {th }}$ sequence element good if it equals the sum of some three elements in positions
strictly smaller than $i$ (an element can be used more than once in the sum). How many good elements
does the sequence contain?

## Input

The first line of input contains the positive integer $N(1 \leq N \leq 5000)$, the length of the sequence $A$. The second line of input contains $N$ space separated integers representing the sequence
$A\left(-100000 \leq A_{i} \leq 100000\right)$.

## Output

The first and only line of output must contain the number of good elements in the sequence.

## Example

Input:
2
13
Output:
1
Input:
6
1235710
Output:
4

Input:
3
-1 20
Output:
1

