A+B Problem

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Given N integers in the range $[-50000, 50000]$, how many ways are there to pick three integers a_i, a_j, a_k, such that i, j, k are pairwise distinct and $a_i + a_j = a_k$? Two ways are different if their ordered triples of indices (i, j, k) are different.

Input

The first line of input consists of a single integer N ($1 \le N \le 200000$). The next line consists of N space-separated integers $a_1, a_2, \ldots, a_N$.

Output

Output an integer representing the number of ways.

Examples

Sample input 1

```
4
1 2 3 4
```

Sample output 1

```
4
```

Sample input 2

```
6
1 1 3 3 4 6
```

Sample output 2

```
10
```

Limits

Time limit is 4 second.

Memory limit is 1024 megabytes.

[1] https://open.kattis.com/problems/aplusb