Problem D. ABCDEF

Time limit	1000 ms
Mem limit	1572864 kB
Code length Limit	50000 B
OS	Linux

You are given a set S of integers between -30000 and 30000 (inclusive).

Find the total number of sextuples $(a,b,c,d,e,f): a,b,c,d,e,f \in S; d \neq 0$ that satisfy:

$$\frac{a*b+c}{d} - e = f$$

Input

The first line contains integer N ($1 \le N \le 100$), the size of a set S.

Elements of S are given in the next N lines, one integer per line. Given numbers will be distinct.

Output

Output the total number of plausible sextuples.

Examples

Input:
```
1
1
```
Output:
```
1
```

Input:
```
2
2
3
```
Output:
```
4
```

Input:
```
2
-1
1
```
Output:
```
24
```

Input:
```
3
5
7
10
```
Output:
```
10
```