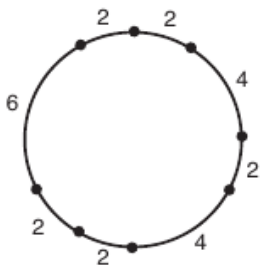
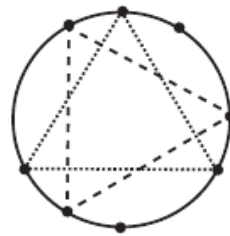


You will be given  $N$  points on a circle. You must write a program to determine how many distinct equilateral triangles can be constructed using the given points as vertices.

The figure below illustrates an example: (a) shows a set of points, determined by the lengths of the circular arcs that have adjacent points as extremes; and (b) shows the two triangles which can be built with these points.



(a)



(b)

## Input

The input contains several test cases. The first line of a test case contains an integer  $N$ , the number of points given. The second line contains  $N$  integers  $X_i$ , representing the lengths of the circular arcs between two consecutive points in the circle: for  $1 \leq i \leq (N - 1)$ ,  $X_i$  represents the length of the arc between points  $i$  and  $i + 1$ ;  $X_N$  represents the length of the arc between points  $N$  and 1.

## Output

For each test case your program must output a single line, containing a single integer, the number of distinct equilateral triangles that can be constructed using the given points as vertices.

### Restrictions

- $3 \leq N \leq 10^5$
- $1 \leq X_i \leq 10^3$ , for  $1 \leq i \leq N$

## Sample Input

```
8
4 2 4 2 2 6 2 2
6
3 4 2 1 5 3
```

## Sample Output

```
2
1
```