Contest Duration: 2025-06-07(Sat) 08:00 (http://www.timeanddate.com/worldclock/fixedtime.html? iso=20250607T2100&p1=248) - 2025-06-07(Sat) 09:40 (http://www.timeanddate.com/worldclock/fixedtime.html? iso=20250607T2240&p1=248) (local time) (100 minutes) Back to Home (/home)

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Discuss (https://codeforces.com/blog/entry/143567)

C - Equilateral Triangle Editorial (/contests/abc409/tasks/abc409_c/editorial)



Time Limit: 2 sec / Memory Limit: 1024 MiB

Score: 300 points

Problem Statement

There is a circle with circumference L, and points $1,2,\ldots,N$ are placed on this circle. For $i=1,2,\ldots,N-1$, point i+1 is located at a position that is d_i clockwise from point ion the circle.

Find the number of integer triples (a,b,c) $(1 \leq a < b < c \leq N)$ that satisfy both of the following conditions:

- The three points a, b, and c are all at different positions.
- The triangle with vertices at the three points a, b, and c is an equilateral triangle.

Constraints

- $3 < L, N < 3 \times 10^5$
- $0 < d_i < L$
- All input values are integers.

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Input

The input is given from Standard Input in the following format:

Output

Output the answer.

Sample Input 1

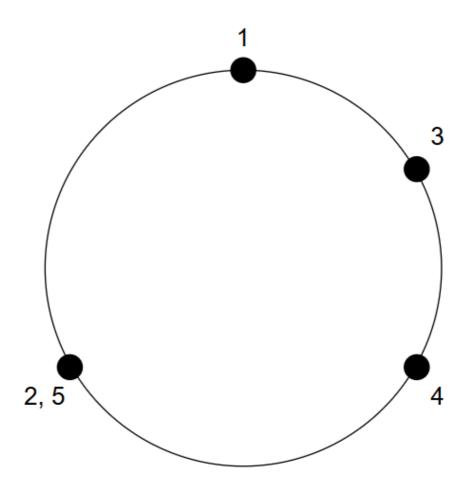
5 6 4 3 1 2

Sample Output 1 Copy

Сору

The arrangement of the five points is as follows. Two pairs satisfy the conditions:

(a, b, c) = (1, 2, 4), (1, 4, 5).



Sample Input 2 Copy

4 4 Copy 1 1 1

Sample Output 2 Copy

Оору

Sample Input 3 Copy

10 12 4 4 5 7 1 7 0 8 5

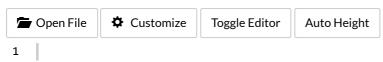
Sample Output 3 Copy

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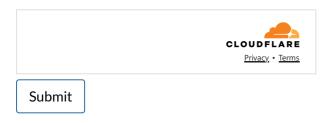
Language

Python (CPython 3.11.4)

Source Code



- * at most 512 KiB
- * Your source code will be saved as Main. extension.



#telegram)

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