## **Pair**

1 second, 256 MB

You are given *N* integers:

$$X_1, X_2, ..., X_N$$

such that  $X_1 \le X_2 \le \dots \le X_N$  (i.e., they are sorted).

You are also given two integers G and T. You want to find how many pairs of indices i and j such that i < j and  $X_i + X_j$  is close to G with additive error T, i.e.,

$$G - T \le X_i + X_i \le G + T$$
.

Consider the following example where N = 10, and the integers are

and G = 45 and T = 0. In this case, you look for pairs of indices whose sum of values is exactly 45. The pairs of indices are 3 and 10 (15+30), 5 and 6 (21+24), and 5 and 7 (21+24); therefore the answer is 3.

Consider the case where we allow for error T = 3, i.e., you look for pairs whose values sum to 45 - 3 = 42 to 45 + 3 = 48. These are the pairs:

2 and 10 (12+30=42), 3 and 10 (15+30=45),

3 and 9 (15+29=46), 4 and 8 (20+26=46), 5 and 8 (21+26=47),

4 and 7 (20+24=44), 5 and 7 (21+24=45), 6 and 7 (24+24=48),

4 and 6 (20+24=44), and finally, 5 and 6 (21+24=45).

Thus the answer should be 10.

## Input

The first line of input contains three integers N **G** and T (2 <= N <= 200,000; 0 <= T <= 500,000,000; 0 <= T <= 500,000,000).

The next N lines describe the integers, i.e., line 1+i contains  $X_i$ , for  $1 \le i \le N$ . ( $1 \le X_1 \le X_2 \le \dots \le X_N \le 200,000,000$ )

There are 30% of test cases where  $N \le 1,000$ .

There are another 30% of test cases where T = 0 and all  $X_i$  are distinct.

## Output

The output contains one line, specifying the number of pairs. The output can be large, so do not forget to use type long long.

Example 1

Input	Output
10 45 0	3
10	
12 15	
20	
21	
24	
24 26	
29	
30	

(Other examples are on the next page.)

Example 2

Input	Output
10 45 3	10
10	
12	
15	
20	
21	
24	
24	
26	
24 26 29	
30	

Example 3

Input	Output
5 100 0 48 49 50 51 52	2
48	
49	
50	
51	
52	

Example 4

Input	Output
5 100 0 50 50 50 50 50	10
50   50	
50	
50	
50	