



SECOND JUNIOR BALKAN OLYMPIAD OF INFORMATICS

08 - 13 JULY 2008, BULGARIA

Day 2

Task 3. SUMX

Consider a set of n distinct positive integers a_1, a_2, \dots, a_n , having values between 1 and 1000000 and an integer x . Write a program **sumx** to determine the number of pairs (a_i, a_j) , where $1 \leq i < j \leq n$ and $a_i + a_j = x$.

Input

The first line of the standard input contains the integer n ($1 \leq n \leq 100000$). The second line contains n integers – the elements of the set. On the third line the integer x is given ($1 \leq x \leq 2000000$).

Output

The program should output on a single line of the standard output an integer – the calculated number of pairs.

Remark: In 50% of test cases, $n \leq 1000$.

EXAMPLE

Input

```
9
5 12 7 10 9 1 2 3 11
13
```

Output

```
3
```

Explanation: The different pairs with sum 13 are: (12, 1), (10, 3) and (2, 11).