

O. George the dictator

time limit per test: 1 second
memory limit per test: 256 megabytes

George's company is responsible for making computer chips, to make a computer chip you need two things .

First : two employees to work on it.

Second : their total experience should equal k.

Given an array of integers contains the experience of each employee , and a number k the experience needed to make a computer chip .

Calculate the number of distinct pairs of employees in the company that can do the job.

George being a dictator as always , he has assigned this job to you.

Input

The first line of the input contains two space-separated integers n and k ($1 \leq n \leq 10^5$, $-10^6 \leq k \leq 10^6$).

The second line contains n integers a_1, a_2, \dots, a_n ($-10^6 \leq a_i \leq 10^6$).

Output

Print a single integer. the number of pairs of employees in the company that can do the job .

Examples

input	Copy
4 5 0 4 1 5	
output	Copy
2	

input	Copy
6 -8 -8 0 0 -8 6 -14	
output	Copy
5	

Note


In the second example the pairs are with index


(1, 2) (1, 3) (2, 4) (3, 4) (5, 6)

ICPC Assiut University Training - Juniors Phase 1 Sheets-2022

Public

Participant



→ **Group Contests** 


- Juniors Phase 1 Practice #5 (Bitmask, Bitset, Bits)
- Juniors Phase 1 Practice #4 (Binary search , Two pointers)
- Juniors Phase 1 Practice #3 (STL 2)
- Juniors Phase 1 Practice #2 (STL 1)

- Juniors Phase 1 Practice #1 (Prefix sum , Frequency Array)

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Finished

Practice




→ **Virtual participation** 

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ **Submit?**

Language: GNU G++20 13.2 (64 bit, win 

Choose file:

Choose File

 No file chosen

Submit

→ **Last submissions**

Submission	Time	Verdict
246923421	Feb/18/2024 02:26	Accepted
246923250	Feb/18/2024 02:21	Accepted
246923170	Feb/18/2024 02:18	Wrong answer on test 213
246923123	Feb/18/2024 02:17	Wrong answer on test 213
246918739	Feb/18/2024 00:40	Wrong answer on test 21