Pairs

https://www.hackerrank.com/challenges/pairs/problem

You will be given an array of integers and a target value. Determine the number of pairs of array elements that have a difference equal to a target value.

For example, given an array of [1, 2, 3, 4] and a target value of 1, we have three values meeting the condition: 2 - 1 = 1, 3 - 2 = 1, and 4 - 3 = 1.

Function Description

Complete the pairs function below. It must return an integer representing the number of element pairs having the required difference.

pairs has the following parameter(s):

- -k: an integer, the target difference
- arr: an array of integers

Input Format

The first line contains two space-separated integers n and k, the size of arr and the target value. The second line contains space-separated integers of the array.

Constraints

$$2 \le n \le 10^5$$

 $0 < k < 10^9$
 $0 < arr[i] < 2^{31} - 1$
 $arr[i]$ will be unique

Output Format

An integer representing the number of pairs of integers whose difference is k.

Example input	Expected output	Explanation
5 2 1 5 3 4 2	3	here are 3 pairs of integers in the set with a difference of 2: [5,3], [4,2] and [3,1] .
10 2 1 1 2 2 3 3 3 4 4 5	13	
10 3 1 1 2 2 3 3 3 4 4 5	6	

[~]the provided implementation works without complying with the last condition for uniqueness