

# Hacking the random number generator

You recently wrote a random number generator code for a web application and now you notice that some cracker has cracked it. It now gives numbers at a difference of some given value  $k$  more predominantly. You being a hacker decide to write a code that will take in  $n$  numbers as input and a value  $k$  and find the total number of pairs of numbers whose absolute difference is equal to  $k$ , in order to assist you in your random number generator testing.

NOTE: All values fit in the range of a signed integer,  $n, k \geq 1$

## Input

1st line contains  $n$  &  $k$ .

2nd line contains  $n$  numbers of the set. All the  $n$  numbers are assured to be distinct.

(Edited:  $n \leq 10^5$ )

## Output

One integer saying the no of pairs of numbers that have a diff  $k$ .

## Example

**Input:**

```
5 2  
1 5 3 4 2
```

**Output:**

```
3
```