CICLO 2 – JAVASCRIPT
Calentamiento – Project Estimates

A number of bids are being taken for a project. Determine the number of distinct pairs of project costs where their absolute difference is some target value. Two pairs are distinct if they differ in at least one value.

Example

n = 3

projectCosts = [1, 3, 5]

target= 2

There are *2* pairs *[1,3], [3,5] that* have the target difference *target = 2*, therefore a value of *2* is returned.

Function Description

Complete the function *countPairs* in the editor below.

countPairs has the following parameter(s):

int projectCosts[n]: array of integers

int target: the target difference

Returns

int: the number of distinct pairs in *projectCosts* with an absolute difference of *target*

Constraints

- $5 \leq n \leq 10^5$
- $0 < projectCosts[i] \leq 2 \times 10^9$
- Each *projectCosts[i]* is distinct, i.e. unique within *projectCosts*
- $1 \leq target \leq 10^9$

▼ Input Format for Custom Testing

Input from stdin will be processed as follows and passed to the function.

The first line contains an integer *n*, the size of the array *projectCosts*.
The next *n* lines each contain an element *projectCosts[i]* where 0 ≤ i < n.
The next line contains the integer *target*, the target difference.

▼ Sample Case 0

Sample Input 0

```
STDIN       Function
-----       --------
5       →   projectCosts[] size n = 5
1       →   projectCosts = [1, 5, 3, 4, 2]
5
3
4
2
2       →   target = 2
```

Sample Output 0

```
3
```

▼ Sample Case 1

Sample Input 1

```
STDIN            Function
-----            --------
10           →   projectCosts[] size n = 10
363374326    →   projectCosts = [363374326, 364147530, 61825163,
107306571, 128124602, 139946991, 428047635, 491595254, 879792181,
106926279]
364147530
61825163
107306571
128124602
139946991
428047635
491595254
879792181
106926279
1            →   target = 1
```

Sample Output 1

```
0
```