

A number of bids are received 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] with the target difference target = 2. Therefore, 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

Return

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

Constraints

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

Input Format for Custom Testing

▼ 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

Input Format for Custom Testing

▼ Sample Case 0

Sample Input 0

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

Sample Output 0

3

Explanation 0

Count the number of pairs in *projectCosts* whose difference is target = 2. The following three pairs meet the criterion: (1, 3), (5, 3), and (4, 2).

▼ 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

Explanation 1

Count the number of pairs in projectCosts whose difference is target = 1. Because no such pair of integers exists, return 0.

▼ Sample Case 2

Sample Input 2

STDIN	Function
6 →	projectCosts[] size n = 6
2 →	projectCosts = [2, 4, 6, 8, 10, 12]
4	p
6	
8	
10	
10	
2 →	target = 2

Sample Output 2

5

Explanation 2

Count the number of pairs in *projectCosts* whose difference is *target = 2*. The following five pairs meet the criterion: (2, 4), (4, 6), (6, 8), (8, 10), and (10, 12).