

# Mock Test > lorenzo@deluca.pro

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Test Name:

**Mock Test** 

Ankush

Taken On:

8 Jun 2025 01:06:30 IST

Time Taken:

19 min 41 sec/ 25 min

Invited by: Invited on:

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Skills Score:

Tags Score:

Algorithms 75/75

Core CS 75/75

Medium 75/75 Search 75/75

problem-solving 75/75

100% 75/75

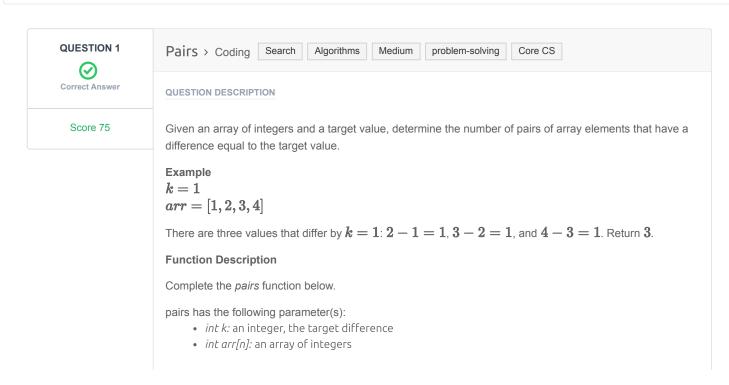
scored in **Mock Test** in 19 min 41 sec on 8 Jun 2025 01:06:30

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## **Recruiter/Team Comments:**

No Comments.

	Question Description	Time Taken	Score	Status
Q1 Pairs > Coding		19 min 34 sec	75/ 75	<b>②</b>



#### Returns

• *int:* the number of pairs that satisfy the criterion

#### 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 n space-separated integers of the array arr.

### **Constraints**

- $2 \le n \le 10^5$
- $0 < k < 10^9$
- $0 < arr[i] < 2^{31} 1$
- each integer arr[i] will be unique

## Sample Input

```
STDIN Function
-----
5 2 arr[] size n = 5, k =2
1 5 3 4 2 arr = [1, 5, 3, 4, 2]
```

### **Sample Output**

3

#### **Explanation**

There are 3 pairs of integers in the set with a difference of 2: [5,3], [4,2] and [3,1].

### **CANDIDATE ANSWER**

# Language used: Java 8

```
2 class Result {
 4
       * Complete the 'pairs' function below.
       * The function is expected to return an INTEGER.
8
       * The function accepts following parameters:
       * 1. INTEGER k
      * 2. INTEGER ARRAY arr
       */
     public static int pairs(int k, List<Integer> arr) {
14
      //reverse two sum
          int count = 0;
         Map<Integer, Integer> sums=new HashMap<>();
         for(int el:arr){
              if(sums.get(el)!=null){
                  count+=sums.get(el);
              if (sums.get(el+k)!=null) sums.put(el+k, sums.get(el+k)+1);
              else sums.put(el+k, 1);
              if(sums.get(el-k)!=null)sums.put(el-k, sums.get(el-k)+1);
              else sums.put(el-k, 1);
          return count;
      }
29 }
```

No Comments

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