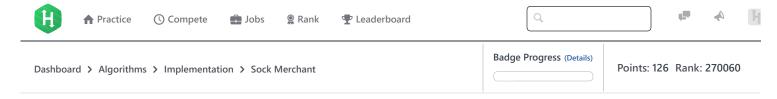
15/11/2017 HackerRank



# Sock Merchant





John works at a clothing store and he's going through a pile of socks to find the number of matching pairs. More specifically, he has a pile of n loose socks where each sock i is labeled with an integer,  $c_i$ , denoting its color. He wants to sell as many socks as possible, but his customers will only buy them in matching pairs. Two socks, i and j, are a single matching pair if they have the same color ( $c_i = c_j$ ).

Given n and the color of each sock, how many pairs of socks can John sell?

# **Input Format**

The first line contains an integer, n, denoting the number of socks.

The second line contains n space-separated integers describing the respective values of  $c_0, c_1, c_2, \ldots, c_{n-1}$ .

#### **Constraints**

- $1 \le n \le 100$
- $1 \le c_i \le 100$

### **Output Format**

Print the total number of matching pairs of socks that John can sell.

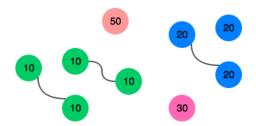
#### **Sample Input**

9 10 20 20 10 10 30 50 10 20

# **Sample Output**

3

## **Explanation**



As you can see from the figure above, we can match three pairs of socks. Thus, we print 3 on a new line.

f ⊌ in

Submissions: 56836

15/11/2017 HackerRank

Max Score:10
Difficulty: Easy
Rate This Challenge:
☆☆☆☆☆
More

```
Current Buffer (saved locally, editable) & • •
                                                                                            Java 7
                                                                                                                              *
 1 ▼ import java.io.*;
 2 import java.util.*;
 3
    import java.text.*;
    import java.math.*;
    import java.util.regex.*;
 7 ▼ public class Solution {
 8
         static int sockMerchant(int n, int[] ar) {
 9 ▼
10
             // Complete this function
11
12
         public static void main(String[] args) {
13 🔻
             Scanner in = new Scanner(System.in);
14
             int n = in.nextInt();
15
             int[] ar = new int[n];
16 ▼
17 ▼
             for(int ar_i = 0; ar_i < n; ar_i++){</pre>
                 ar[ar_i] = in.nextInt();
18 ▼
19
20
             int result = sockMerchant(n, ar);
21
             System.out.println(result);
22
23
     }
24
                                                                                                                      Line: 1 Col: 1
                      Test against custom input
                                                                                                         Run Code
                                                                                                                       Submit Code
1 Upload Code as File
```

Join us on IRC at #hackerrank on freenode for hugs or bugs.

Contest Calendar | Blog | Scoring | Environment | FAQ | About Us | Support | Careers | Terms Of Service | Privacy Policy | Request a Feature