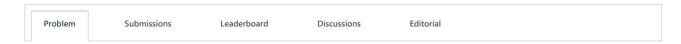


Sock Merchant **■**





John's clothing store 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 $c_i = c_j$.

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_r , 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.

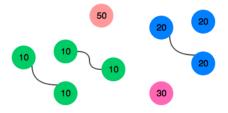
Sample Input

10 20 20 10 10 30 50 10 20

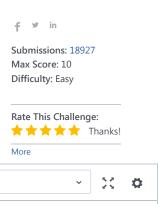
Sample Output

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.





```
using system,
2
    using System.Collections.Generic;
3
    using System.IO;
4
    using System.Linq;
5
   ▼ class Solution {
6
7
        static void Main(String[] args) {
8
         int n = Convert.ToInt32(Console.ReadLine());
            string[] c_temp = Console.ReadLine().Split(' ');
9
            int[] c = Array.ConvertAll(c_temp, e => int.Parse(e));
10
11
            Dictionary<int, int> frec = new Dictionary<int, int>();
            foreach (int elem in c)
12
13
14
                 if (frec.ContainsKey(elem))
15
16
                     frec[elem]++;
17
18
                 else
19
                 {
                     frec[elem] = 1;
20
21
22
23
            int ans = 0;
            foreach (KeyValuePair<int, int> kvp in frec)
24
25
26
                 int emparejados = kvp.Value;
                 //if (emparejados % 2 != 0)
27
28
29
                       emparejados--;
                 //}
30
31
                 ans += (int)Math.Floor( (double) emparejados / 2);
32
33
            Console.WriteLine(ans);
34
35
36
                                                                                                      Line: 33 Col: 32
                                                                                            Run Code
                                                                                                        Submit Code
```

Test against custom input **1** Upload Code as File



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