

# Sales by Match ★

Problem

Submissions

Leaderboard

Editorial

There is a large pile of socks that must be paired by color. Given an array of integers representing the color of each sock, determine how many pairs of socks with matching colors there are.

Example

$n = 7$   
 $ar = [1, 2, 1, 2, 1, 3, 2]$

There is one pair of color 1 and one of color 2. There are three odd socks left, one of each color. The number of pairs is 2.

Function Description

Complete the sockMerchant function in the editor below.

sockMerchant has the following parameter(s):

- int n: the number of socks in the pile
- int ar[n]: the colors of each sock

Returns

- int: the number of pairs

Input Format

The first line contains an integer  $n$ , the number of socks represented in  $ar$ .  
The second line contains  $n$  space-separated integers,  $ar[i]$ , the colors of the socks in the pile.

Constraints

- $1 \leq n \leq 100$
- $1 \leq ar[i] \leq 100$  where  $0 \leq i < n$

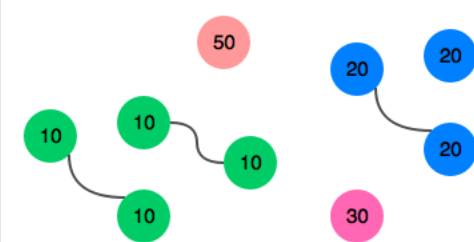
Sample Input

STDIN	Function
9	n = 9
10 20 20 10 10 30 50 10 20	ar = [10, 20, 20, 10, 10, 30, 50, 10, 20]

Sample Output

3

Explanation



There are three pairs of socks.

Change Theme JavaScript (Node.js)

```
22
23 function readLine() {
24     return inputString[currentLine++];
25 }
26
27 // Complete the sockMerchant function below.
28 function sockMerchant(n, ar) {
29     let pairs = 0;
30     let search = new Set();
31     for(const sock of ar){
32         if(search.has(sock)){
33             pairs++;
34             search.delete(sock);
35         } else {
36             search.add(sock);
37         }
38     }
39     return pairs;
40 }
41
42 function main() {
43     const ws = fs.createWriteStream(process.env.OUTPUT_PATH);
44
45     const n = parseInt(readLine(), 10);
```

Line: 39 Col: 18

☒ Upload Code as File ☐ Test against custom input

Run Code

Submit Code

Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

Sample Test case 0

Sample Test case 1

Input (stdin)

1 9

2 10 20 20 10 10 30 50 10 20

Your Output (stdout)

1 3

Expected Output

1 3

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