

Sales by Match

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Problem Solving

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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 $0 \leq i < n$

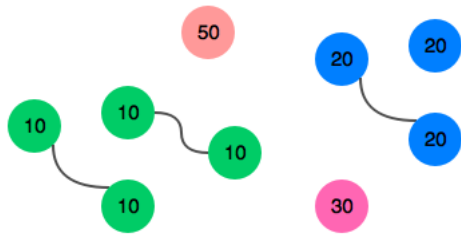
Sample Input

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.

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Language

Python 3



```

1  #!/bin/python3
2
3  import math
4  import os
5  import random
6  import re
7  import sys
8  from collections import Counter
9  #
10 # Complete the 'sockMerchant' function below.
11 #
12 # The function is expected to return an INTEGER.
13 # The function accepts following parameters:
14 # 1. INTEGER n
15 # 2. INTEGER_ARRAY ar
16 #
17
18 def sockMerchant(n, ar):
19     # Write your code here
20     counter = Counter(ar)
21     count = 0
22     for value in counter.values():
23         count += value // 2
24     return count
25
26 if __name__ == '__main__':
27     fptr = open(os.environ['OUTPUT_PATH'], 'w')
28
29     n = int(input().strip())
30
31     ar = list(map(int, input().rstrip().split()))
32
33     result = sockMerchant(n, ar)
34

```

EMACS

Line: 38 Col: 1

☐ Test against custom input

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52%

670.2/850



Congratulations

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Test case 0

Compiler Message

Test case 1

Success

Test case 2

Input (stdin)

Download

1 9
2 10 20 20 10 10 30 50 10 20

Test case 3

Test case 4

Expected Output

Download

1 3

Test case 5

Test case 6