



X

# collections.Counter() ★

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#### collections.Counter()

A counter is a container that stores elements as dictionary keys, and their counts are stored as dictionary values.

#### Sample Code

```
>>> from collections import Counter
>>>
>>> myList = [1,1,2,3,4,5,3,2,3,4,2,1,2,3]
>>> print Counter(myList)
Counter({2: 4, 3: 4, 1: 3, 4: 2, 5: 1})
>>>
>>> print Counter(myList).items()
[(1, 3), (2, 4), (3, 4), (4, 2), (5, 1)]
>>>
>>> print Counter(myList).keys()
[1, 2, 3, 4, 5]
>>>
>>> print Counter(myList).values()
[3, 4, 4, 2, 1]
```

# Task

 ${\it Raghu}$  is a shoe shop owner. His shop has  ${\it X}$  number of shoes.

He has a list containing the size of each shoe he has in his shop.

There are N number of customers who are willing to pay  $x_i$  amount of money only if they get the shoe of their desired size.

Your task is to compute how much money *Raghu* earned.

#### Input Format

The first line contains  $\boldsymbol{X}$ , the number of shoes.

The second line contains the space separated list of all the shoe sizes in the shop.

The third line contains  ${m N}$ , the number of customers.

The next N lines contain the space separated values of the **shoe size** desired by the customer and  $x_i$ , the price of the shoe.

#### Constraints

 $0 < X < 10^3$ 

 $0 < N \leq 10^3$ 

 $20 < x_i < 100$ 

 $2 < shoe \ size < 20$ 

# **Output Format**

Print the amount of money earned by Raghu.

#### Sample Input

```
10
2 3 4 5 6 8 7 6 5 18
6
6 55
6 45
6 55
4 40
18 60
10 50
```

# Sample Output

200

#### Explanation

17 18

Customer 1: Purchased size 6 shoe for \$55.

Customer 2: Purchased size 6 shoe for \$45.

Customer 3: Size 6 no longer available, so no purchase.

Customer 4: Purchased size 4 shoe for \$40.

Customer 5: Purchased size 18 shoe for \$60.

Customer 6: Size 10 not available, so no purchase.

Total money earned = 55 + 45 + 40 + 60 = \$200

```
# Enter your code here. Read input from STDIN. Print output to STDOUT
from collections import Counter

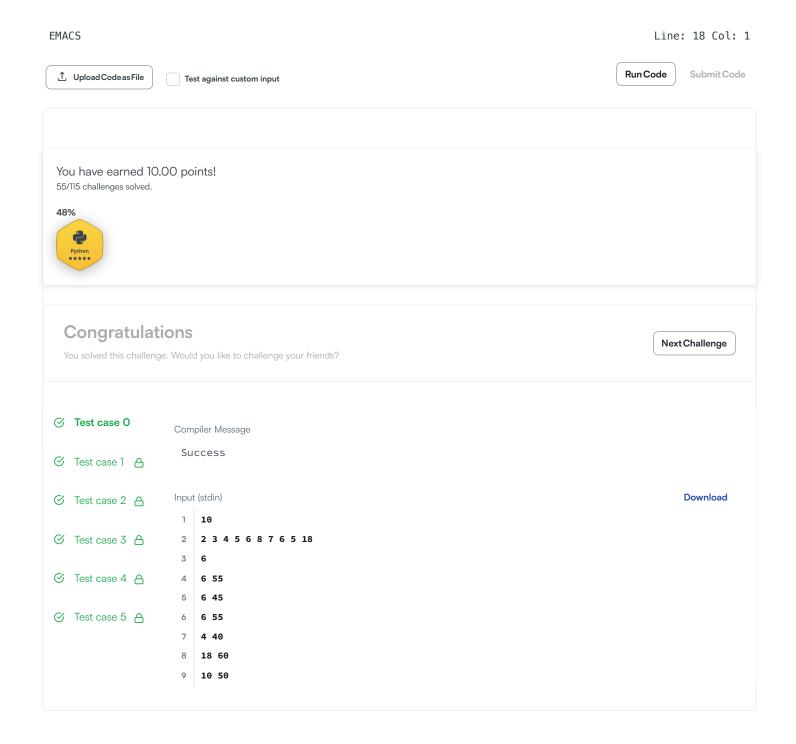
n = int(input())
X_list = list(map(int, input().split()))
```

Change Theme

Language Python 3

```
N = int(input())
 6
 7
 8
    shoe_size = Counter(X_list)
 9
    earn = 0
10
     for i in range(N):
11
         size, amount = tuple(map(int, input().split()))
         if size in shoe_size.keys() and shoe_size[size] != 0:
12
13
            shoe_size[size] -= 1
            earn += amount
14
15
16
     print(earn)
```

53



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