collections.Counter()

55/115 challenges solved

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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

$Raghu$ is a shoe shop owner. His shop has 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 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 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

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 = $55 + 45 + 40 + 60 = \$200$

Change Theme Language Python 3

```python
# 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()))
N = int(input())

shoe_size = Counter(X_list)
earn = 0
for i in range(N):
    size, amount = tuple(map(int, input().split()))
    if size in shoe_size.keys() and shoe_size[size] != 0:
        shoe_size[size] -= 1
        earn += amount

print(earn)

```

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55/115 challenges solved.

48%

Congratulations

You solved this challenge. Would you like to challenge your friends?

Next Challenge

- Test case 0
- Test case 1
- Test case 2
- Test case 3
- Test case 4
- Test case 5

Compiler Message

Success

Input (stdin) Download

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