



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

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

 $0 < X < 10^3$ $0 < N \leq 10^3$ $20 < x_i < 100$ $2 < \text{shoe size} < 20$

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

Python 3



```

1  from collections import Counter
2
3  def compute_total_money_earned(x, sizes, sizes_prices):
4      total_earned = 0
5      available_sizes = dict(Counter(sizes))
6
7      for i in range(len(sizes_prices)):
8          size_price = sizes_prices[i]
9          size = size_price[0]
10         price = size_price[1]
11
12         if size in available_sizes:
13             if available_sizes[size]:
14                 available_sizes[size] -= 1
15                 total_earned += price
16
17     return total_earned
18
19 if __name__ == '__main__':
20     x = int(input())
21     sizes = list(map(int, input().split()))
22     n = int(input())
23     sizes_prices = []
24     for _ in range(n):

```

Line: 6 Col: 5

Upload Code as File

☐ Test against custom input

Run Code

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Test case 0

Test case 1

Test case 2

Test case 3

Test case 4

Test case 5

Compiler Message

Success

Input (stdin)

```
1 10
2 2 3 4 5 6 8 7 6 5 18
3 6
4 6 55
5 6 45
6 6 55
7 4 40
8 18 60
9 10 50
```

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