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# Set .discard(), .remove() & .pop() ☆

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Try the next challenge | Try a Random Challenge **Problem** Submissions Leaderboard Editorial 🖰 Discussions Author **DOSHI** .remove(x) Difficulty Easy This operation removes element  $m{x}$  from the set. Max Score 10 If element **x** does not exist, it raises a KeyError. Submitted By 22988 The .remove(x) operation returns None. NEED HELP? Example View discussions >>> s = set([1, 2, 3, 4, 5, 6, 7, 8, 9]) Wiew editorial >>> s.remove(5) >>> print s View top submissions set([1, 2, 3, 4, 6, 7, 8, 9]) >>> print s.remove(4) RATE THIS CHALLENGE >>> print s 公公公公公 set([1, 2, 3, 6, 7, 8, 9]) >>> s.remove(0) MORE DETAILS KeyError: 0 ■ Download problem statement .discard(x) This operation also removes element  $m{x}$  from the set. Suggest Edits If element  $\boldsymbol{x}$  does not exist, it **does not** raise a KeyError. in The .discard(x) operation returns None. Example

>>> s = set([1, 2, 3, 4, 5, 6, 7, 8, 9])

set([1, 2, 3, 4, 6, 7, 8, 9])
>>> print s.discard(4)

set([1, 2, 3, 6, 7, 8, 9])

set([1, 2, 3, 6, 7, 8, 9])

>>> s.discard(5)
>>> print s

>>> s.discard(0)
>>> print s

None >>> print s

.pop()

This operation removes and return an arbitrary element from the set.

If there are no elements to remove, it raises a KeyError.

# Example

```
>>> s = set([1])
>>> print s.pop()
1
>>> print s
set([])
>>> print s.pop()
KeyError: pop from an empty set
```

## Task

You have a non-empty set  $oldsymbol{s}$ , and you have to execute  $oldsymbol{N}$  commands given in  $oldsymbol{N}$  lines.

The commands will be pop, remove and discard.

# Input Format

The first line contains integer  $m{n}$ , the number of elements in the set  $m{s}$ .

The second line contains n space separated elements of set s. All of the elements are non-negative integers, less than or equal to 9.

The third line contains integer N, the number of commands.

The next  ${\it N}$  lines contains either  ${\it pop, remove}$  and/or  ${\it discard}$  commands followed by their associated value.

#### Constraints

```
0 < n < 20
0 < N < 20
```

## **Output Format**

Print the sum of the elements of set **s** on a single line.

# Sample Input

```
9
1 2 3 4 5 6 7 8 9
10
pop
remove 9
discard 9
discard 8
remove 7
pop
discard 6
remove 5
pop
discard 5
```

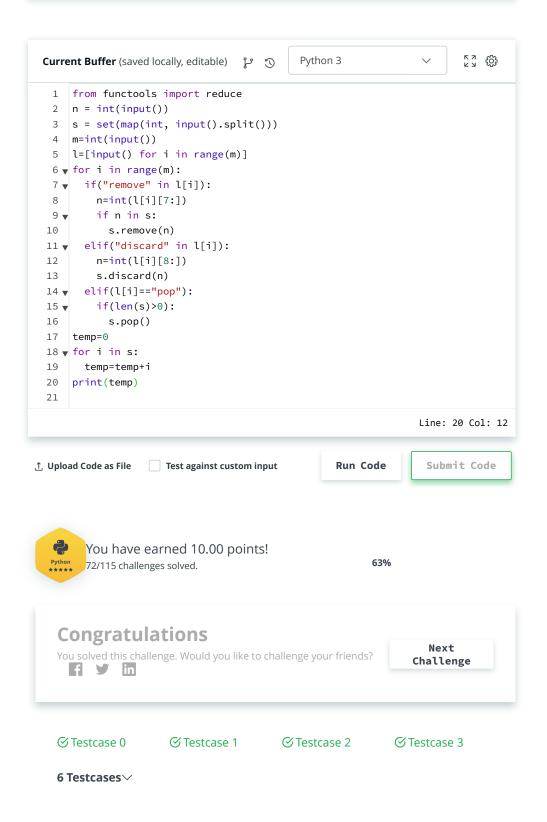
# **Sample Output**

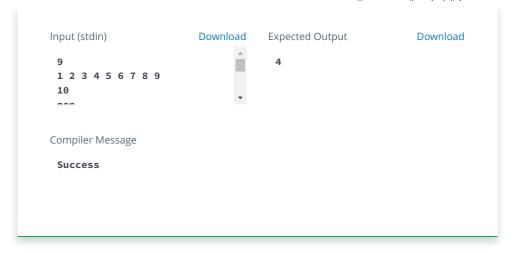
4

# Explanation

After completing these 10 operations on the set, we get set([4]). Hence, the sum is 4.

**Note**: Convert the elements of set *s* to *integers* while you are assigning them. To ensure the proper input of the set, we have added the first two lines of code to the editor.





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