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

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#### .remove(x)

This operation removes element  $m{x}$  from the set.

If element  ${\pmb x}$  does not exist, it raises a KeyError.

The .remove(x) operation returns None.

### Example

```
>>> s = set([1, 2, 3, 4, 5, 6, 7, 8, 9])
>>> s.remove(5)
>>> print s
set([1, 2, 3, 4, 6, 7, 8, 9])
>>> print s.remove(4)
None
>>> print s
set([1, 2, 3, 6, 7, 8, 9])
>>> s.remove(0)
KeyError: 0
```

## .discard(x)

This operation also removes element  $m{x}$  from the set.

If element  ${\boldsymbol x}$  does not exist, it **does not** raise a KeyError.

The .discard(x) operation returns None.

#### Example

```
>>> s = set([1, 2, 3, 4, 5, 6, 7, 8, 9])
>>> s.discard(5)
>>> print s
set([1, 2, 3, 4, 6, 7, 8, 9])
>>> print s.discard(4)
None
>>> print s
set([1, 2, 3, 6, 7, 8, 9])
>>> s.discard(0)
>>> print s
set([1, 2, 3, 6, 7, 8, 9])
```

# .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()
```



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

#### Task

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

The commands will be pop, remove and discard.

#### Input Format

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

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 N lines contains either pop, remove and/or discard commands followed by their associated value.

#### Constraints

```
0 < n < 20
```

0 < N < 20

#### **Output Format**

Print the sum of the elements of set  $\boldsymbol{s}$  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.

```
Change Theme
                                                                 Language Python 3
   n = int(input())
1
    s = set(map(int, input().split()))
2
   N = int(input())
3
    for _ in range(N):
4
5
        cmd_par = input().split()
        if cmd_par[0] == "pop":
6
7
            s.pop()
        if cmd_par[0] == "remove":
```

**EMACS** 

Run Code Submit Code Test against custom input You have earned 10.00 points! 32/115 challenges solved. 28% Congratulations Next Challenge You solved this challenge. Would you like to challenge your friends? Compiler Message Success Download Input (stdin) 2 1 2 3 4 5 6 7 8 9 10 4 pop

5 remove 9

Line: 13 Col: 1

	6	discard 9
	7	discard 8
	8	remove 7
	9	рор

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