Set .discard(), .remove() & .pop() ★



```
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```

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Problem
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.remove(x)
This operation removes element x from the set.
If element 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)
  >>> 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 $m{x}$ 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()
1
>>> print s
set([])
>>> print s.pop()
KeyError: pop from an empty set
```

Task

You have a non-empty set $m{s}$, and you have to execute $m{N}$ commands given in $m{N}$ 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 $m{n}$ space separated elements of set $m{s}$. 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 8 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 ${f 10}$ operations on the set, we get ${f set}({f [4]})$. Hence, the sum is ${f 4}$.

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

Python 3

One of execute_commands(s, commands):

for c in commands:

parts = c.split()

command = parts[0]
```

