Lists

Problem	Submissions

Consider a list (`list = []`). You can perform the following commands:

1. `insert i e` : Insert integer e at position i.

2. `print` : Print the list.

3. `remove e` : Delete the first occurrence of integer e.

4. `append e` : Insert integer e at the end of the list.

5. `sort` : Sort the list.

6. `pop` : Pop the last element from the list.

7. `reverse` : Reverse the list.

Initialize your list and read in the value of n followed by n lines of commands where each command will be of the 7 types listed above. Iterate through each command in order and perform the corresponding operation on your list.

Example
$N = 4$
append 1
append 2
insert 3 1
print

- **append 1**: Append 1 to the list, $arr = [1]$.

- **append 2**: Append 2 to the list, $arr = [1, 2]$.

- **insert 3 1**: Insert 3 at index 1, $arr = [1, 3, 2]$.

- **print**: Print the array.
  Output: ◄

```
[1, 3, 2]
```

Input Format

The first line contains an integer, n, denoting the number of commands.
Each line i of the n subsequent lines contains one of the commands described above.

Constraints

- The elements added to the list must be *integers*.

Output Format

For each command of type `print`, print the list on a new line.

Sample Input 0

```
12
insert 0 5
insert 1 10
insert 0 6
print
remove 6
```

```
append 9
append 1
sort
print
pop
reverse
print
```

Sample Output 0

```
[6, 5, 10]
[1, 5, 9, 10]
[9, 5, 1]
```

Current Buffer (saved locally, editable)

Python 3

```python
1  numbers = []
2  queries = int(input())
3  while queries > 0:
4      control,*ele =[x for x in input().split()]
5      if control == 'insert':
6          numbers.insert(int(ele[0]),int(ele[1]))
7      if control == "print":
8          print(numbers)
9      if control == "remove":
10         numbers.remove(int(ele[0]))
11     if control == "append":
12         numbers.append(int(ele[0]))
13     if control == "sort":
14         numbers.sort()
15     if control == "pop":
16         numbers.pop()
17     if control == "reverse":
18         numbers.reverse()
19     queries -= 1
20
```

Line: 20 Col: 1

⬆ Upload Code as File   ☐ Test against custom input   Run Code   Submit Code