Lists   🔒 locked

Problem	Submissions	Leaderboard	Discussions

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]
```

f y in

Submissions: 18
Max Score: 10
Difficulty: Easy

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| Python 3 | ⌄ |

```python
 1 ▾ if __name__ == '__main__':
 2       N = int(input())
 3       # Create result list that list methods will be performed on
 4       result = []
 5
 6       # iterate through input, have to use N-1 to account for the int passed at the beginning of the
     input
 7 ▾     for i in range(0,N-1):
 8           # use split method on input as x
 9           x = input().split()
10
11
12           # use if else or list comprehension with chained elif logic to get first argument from
     split input
13 ▾         if x[0] == "insert":
14               result.insert(int(x[1]),int(x[2]))
15 ▾         elif x[0] == "print":
16               print(result)
17 ▾         elif x[0] == "remove":
18               result.remove(int(x[1]))
19 ▾         elif x[0] == "append":
20               result.append(int(x[1]))
21 ▾         elif x[0] == "sort":
22               result.sort()
23 ▾         elif x[0] == "pop":
24               result.pop()
25 ▾         elif x[0] == "reverse":
```

```
26              result.reverse()
27
28
29      print(result)
30
```

Line: 30 Col: 5

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

Testcase 0 ✔

Congratulations, you passed the sample test case.

Click the **Submit Code** button to run your code against all the test cases.

Input (stdin)

```
12
insert 0 5
insert 1 10
insert 0 6
print
remove 6
append 9
append 1
sort
print
pop
reverse
print
```

Your Output (stdout)

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

Expected Output

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

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