



Lists ★

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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]
```

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Language

Python 3



```
1  if __name__ == '__main__':
2      N = int(input())#input how many inputs
3      arr = []
4
5      for _ in range(N):
6          command = input().split(" ")
7          #puts input and split.
8          a = command[0]
9          # make command[0] to append,pop or remove...
10         # than if or elif statement is true executes it
11         if a == 'insert':
12             b = int(command[1])
13             c = int(command[2])
14             arr.insert(b, c)
15         elif a == 'append':
16             b = int(command[1])
17             arr.append(b)
18         elif a == 'pop':
19             arr.pop()
20         elif a == 'remove':
21             b = int(command[1])
22             arr.remove(b)
23         elif a == 'sort':
24             arr.sort()
25         elif a == 'reverse':
26             arr.reverse()
27         elif a == 'print':
```

Line: 34 Col: 1

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Test against custom input

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✓ Test case 0

Compiler Message

✓ Test case 1

Success

Input (stdin)

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```
1 12
2 insert 0 5
3 insert 1 10
4 insert 0 6
5 print
6 remove 6
7 append 9
8 append 1
9 sort
```

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