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AICTE (https://swayam-uat-central.appspot.com/explorer?ncCode=AICTE) » **Programming and Data**

Structures with Python (course)

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Practice Assignment 3

Due on 2021-12-31, 23:59 IST

Course outline

Practice Assignments

● Practice Assignment 1 (/programming_2021/progassignment? name=4)

○ Practice Assignment 2 (/programming_2021/progassignment? name=13)

◐ **Practice Assignment 3 (/programming_2021/progassignment? name=18)**

Practice Quiz 1

Quiz 1, Mon 25 Oct 2021

PDSP Assignment 1, due Tue 2 Nov 2021

PDSP Assignment 2,

Complete the definition of the Python class `LList` given in the code window as specified below. Make sure the indentation for your code is correct with respect to the enclosing class definition.

Your function will be tested using the function `testlist()` which is shown above the class definition. This function creates an empty `LList` and then performs the list of operations provided to it. Each element of the list is either `("i",v)`, indicating that v has to be inserted in the list using `mylist.insert(v)`, or `("d",v)`, indicating that v has to be deleted using `mylist.delete(v)`.

- Do not write commands to read any input or print any output.
- You may define additional auxiliary functions as needed.
- In all cases you may assume that the value passed to the function is of the expected type, so your function does not have to check for malformed inputs.
- There are normally some public test cases and some (hidden) private test cases.
- "Compile and run" will evaluate your submission against the public test cases.
- "Submit" will evaluate your submission against the hidden private test cases. There are 10 private test cases, with equal weightage. You will get feedback about which private test cases pass or fail, though you cannot see the actual test cases.
- Ignore warnings about "Presentation errors".
- You can submit as many times as you like. Your final submission will be used for scoring.

Function: `delete(v)`

Add a function to the `LList` class such that if `myl` is a `LList` object, then `myl.delete(v)` deletes the **first** occurrence of v from `myl`. If there are no occurrences of v in `myl`, the function has no effect.

Here are some examples to show how your function should work.

```
>>> testlist([("i",1),("i",2),("d",1)])
[2]

>>> testlist([("i",1),("i",2),("d",2),("d",2),("d",1),("i",2),
("i",1)])
[1, 2]
```

Sample Test Cases

Input	Output
Test Case 1	`testlist([("i",1),("i",2),("d",1)])`	`[2]`

Test Case 2	`testlist([("i",1),("i",2),("d",2),("d",2),("d",1), ("i",2),("i",1)])`	`[1, 2]`
Test Case 3	`testlist([("i",1),("i",2),("d",2)])`	`[1]`
Test Case 4	`testlist([('i',10),('i',9),('i',8),('i',7),('i',6), ('i',5),('i',4),('i',3),('i',2),('i',1),('i',0),('i',1), ('i',2),('i',3),('i',4),('i',5),('i',6),('i',7),('i',8), ('i',9),('i',10),('d',6),('d',4),('d',2),('d',0),('d',6), ('d',4),('d',2),('d',0)])`	`[10, 9, 8, 7, 5, 3, 1, 1, 3, 5, 7, 8, 9, 10]`
Test Case 5	`testlist([('i',10),('i',9),('i',8),('i',7),('i',6), ('i',5),('i',4),('i',3),('i',2),('i',1),('i',0),('i',1), ('i',2),('i',3),('i',4),('i',5),('i',6),('i',7),('i',8), ('i',9),('i',10),('d',6),('d',4),('d',2),('d',0)])`	`[10, 9, 8, 7, 5, 3, 1, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10]`
Test Case 6	`testlist([('i',10),('i',9),('i',8),('i',7),('i',6), ('i',5),('i',4),('i',3),('i',2),('i',1),('i',0),('i',1), ('i',2),('i',3),('i',4),('i',5),('i',6),('i',7),('i',8), ('i',9),('i',10),('d',6),('d',4),('d',2),('d',6),('d',4), ('d',2)])`	`[10, 9, 8, 7, 5, 3, 1, 0, 1, 3, 5, 7, 8, 9, 10]`
Test Case 7	`testlist([('i',1),('i',2),('i',3),('i',4),('i',5), ('i',6),('i',7),('i',8),('i',9),('i',10),('d',6),('d',4), ('d',2),('d',6),('d',4),('d',2)])`	`[10, 9, 8, 7, 5, 3, 1]`
Test Case 8	`testlist([('d',6),('d',4),('d',2),('d',6),('d',4), ('d',2)])`	`[]`
Test Case 9	`testlist([('i',10),('d',10),('i',9),('d',9),('i',8), ('d',8),('i',7),('d',7),('i',6),('d',6),('i',5),('d',5), ('i',4),('d',4),('i',3),('d',3),('i',2),('d',2),('i',1), ('d',1),('i',0)])`	`[0]`
Test Case 10	`testlist([('d',10),('i',10),('d',9),('i',9),('d',8), ('i',8),('d',7),('i',7),('d',6),('i',6),('d',5),('i',5), ('d',4),('i',4),('d',3),('i',3),('d',2),('i',2),('d',1), ('i',1),('d',0)])`	`[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]`
Test Case 11	`testlist([("i",1),("i",2),("d",1)])`	`[2]`
Test Case 12	`testlist([("i",1),("i",2),("d",2),("d",2),("d",1), ("i",2),("i",1)])`	`[1, 2]`

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.