



Delete duplicate-value nodes from a sorted linked list ★

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Problem

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This challenge is part of a tutorial track by [MyCodeSchool](#)

You are given the pointer to the head node of a sorted linked list, where the data in the nodes is in ascending order. Delete nodes and return a sorted list with each distinct value in the original list. The given head pointer may be null indicating that the list is empty.

Example

head refers to the first node in the list **1 → 2 → 2 → 3 → 3 → 3 → 3 → NULL**.

Remove 1 of the **2** data values and return **head** pointing to the revised list **1 → 2 → 3 → NULL**.

Function Description

Complete the removeDuplicates function in the editor below.

removeDuplicates has the following parameter:

- SinglyLinkedListNode pointer head: a reference to the head of the list

Returns

- SinglyLinkedListNode pointer: a reference to the head of the revised list

Input Format

The first line contains an integer **t**, the number of test cases.

The format for each test case is as follows:

The first line contains an integer **n**, the number of elements in the linked list.

Each of the next **n** lines contains an integer, the **data** value for each of the elements of the linked list.

Constraints

- $1 \leq t \leq 10$
- $1 \leq n \leq 1000$
- $1 \leq list[i] \leq 1000$

Sample Input

STDIN	Function
1	t = 1
5	n = 5
1	data values = 1, 2, 2, 3, 4
2	
2	
3	
4	

Sample Output

1 2 3 4

Explanation

The initial linked list is: **1 → 2 → 2 → 3 → 4 → NULL**.

The final linked list is: **1 → 2 → 3 → 4 → NULL**.

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Language

Python 3



```
1  #!/bin/python3 ...
38
39  #
40  # Complete the 'removeDuplicates' function below.
41  #
42  # The function is expected to return an INTEGER_SINGLY_LINKED_LIST.
43  # The function accepts INTEGER_SINGLY_LINKED_LIST llist as parameter.
44  #
45  #
46  #
47  # For your reference:
48  #
49  # SinglyLinkedListNode:
50  #     int data
51  #     SinglyLinkedListNode next
52  #
53  #
54
55  def removeDuplicates(llist):
56      # Write your code here
57      if llist is None:
58          return
59
60      cur = llist
61      while cur.next:
62          if cur.data == cur.next.data:
63              cur.next = cur.next.next
64          else:
65              cur = cur.next
66      return llist
67
68  if __name__ == '__main__': ...
```

EMACS

Line: 1 Col: 1

Upload Code as File

☐ Test against custom input

Run Code

Submit Code

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Next Challenge

Test case 0

Compiler Message

Test case 1

Success

Test case 2

Input (stdin)

Download

1

1

Test case 3

2

5

3

1

Test case 4

4

2

5

2

Test case 5

6

3

7

4

Test case 6

Expected Output

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