



Compare two linked lists ★

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Problem

Submissions

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Editorial

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

You're given the pointer to the head nodes of two linked lists. Compare the data in the nodes of the linked lists to check if they are equal. If all data attributes are equal and the lists are the same length, return **1**. Otherwise, return **0**.

Example

l1 = 1 → 2 → 3 → NULL***l2*** = 1 → 2 → 3 → 4 → NULL

The two lists have equal data attributes for the first **3** nodes. ***l2*** is longer, though, so the lists are not equal. Return **0**.

Function Description

Complete the compare_lists function in the editor below.

compare_lists has the following parameters:

- SinglyLinkedListNode l1: a reference to the head of a list
- SinglyLinkedListNode l2: a reference to the head of a list

Returns

- int: return 1 if the lists are equal, or 0 otherwise

Input Format

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

Each of the test cases has the following format:

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

Each of the next **n** lines contains an integer, each a value for a data attribute.

The next line contains an integer **m**, the number of nodes in the second linked list.

Each of the next **m** lines contains an integer, each a value for a data attribute.

Constraints

- $1 \leq t \leq 10$
- $1 \leq n, m \leq 1000$
- $1 \leq l1[i], l2[i] \leq 1000$

Output Format

Compare the two linked lists and return 1 if the lists are equal. Otherwise, return 0. Do NOT print anything to stdout/console.

The output is handled by the code in the editor and it is as follows:

For each test case, in a new line, print **1** if the two lists are equal, else print **0**.

Sample Input

```

2
2
1
2
1
1
2
1
2
2
1
2

```

Sample Output

```

0
1

```

Explanation

There are $t = 2$ test cases, each with a pair of linked lists.

- In the first case, linked lists are: 1 -> 2 -> NULL and 1 -> NULL
- In the second case, linked lists are: 1 -> 2 -> NULL and 1 -> 2 -> NULL

Change Theme

Language

Python 3



```

1  #!/bin/python3...
35
36  # Complete the compare_lists function below.
37
38  #
39  # For your reference:
40  #
41  # SinglyLinkedListNode:
42  #     int data
43  #     SinglyLinkedListNode next
44  #
45  #
46  def compare_lists(llist1, llist2):
47      cur1 = llist1
48      cur2 = llist2
49      while cur1 and cur2:
50          if cur1.data != cur2.data:
51              return 0
52          cur1 = cur1.next
53          cur2 = cur2.next
54
55      if cur1 is None and cur2 is None:
56          return 1
57      else:
58          return 0
59
60  if __name__ == '__main__':...

```

EMACS

Line: 58 Col: 17

⬆️ Upload Code as File

☐ Test against custom input

Run Code


Submit Code

You have earned 5.00 points!

You are now 259 points away from the 4th star for your problem solving badge.

6%

216/475



Problem Solving
★★★

Congratulations

You solved this challenge. Would you like to challenge your friends?

Next Challenge

✔️ Test case 0

Compiler Message

✔️ Test case 1

Success

✔️ Test case 2

🔒

Input (stdin)

12

22

31

42

51

61

72

81

92

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