

นายณภร จิราธนกุลชัย 63010279

ข้อ 1

Linear Algebra 2564-1 KCE\_DS\_Student (66) YOASOBIのベストソング - YOASOBI Python TypeError: 'int' object is not iterable Search an element in a Linked List Home Exercise Edit profile Help Log out

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Programming Lab Management System King Mongkut's Institute of Technology Ladkrabang

You have got full mark !!!

Last submission :

```
1 ***
2 * ภคุณที่ : 21010001
3 * 63010279 ณภร จิราธนกุลชัย
4 * chapter : 5 item : 1 ครั้งที่ : 0003
5 * Assigned: Sunday 12th of September 2021 09:44:41 PM --> Submission : Tuesday 21st of September 2021 12:34:09 PM
6 * Elapsed time : 12409 minutes.
7 * filename : 63010279_Lab5_1-PY
8 ***
9 class Node:
10     def __init__(self, value):
11         self.value = value
12         self.next = None
13
14 class LinkedList:
15     def __init__(self):
```

Number of testcase : 12

Testcase student: #1/12 1

Linear Algebra 2564-1 KCE\_DS\_Student (66) YOASOBIのベストソング - YOASOBI Python TypeError: 'int' object is not iterable Search an element in a Linked List Home Exercise Edit profile Help Log out

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Testcase student: #1/12 1

Enter Input : AP I,AP Love,AP KMITL,AP 2020 Linked List : I Love KMITL 2020	Enter Input : AP I,AP Love,AP KMITL,AP 2020 Linked List : I Love KMITL 2020
--	--

Testcase student: #2/12 2

Enter Input : AP I,AP Love,AH KMITL,AP 2020 Linked List : KMITL I Love 2020	Enter Input : AP I,AP Love,AH KMITL,AP 2020 Linked List : KMITL I Love 2020
--	--

Testcase student: #3/12 3

Enter Input : SE 2020,SI,1D KMITL,PO 1 Not Found 2020 in Empty Linked List size = 0 : Empty Index (KMITL) = -1 : Empty Out of Range   Empty Linked List : Empty	Enter Input : SE 2020,SI,1D KMITL,PO 1 Not Found 2020 in Empty Linked List size = 0 : Empty Index (KMITL) = -1 : Empty Out of Range   Empty Linked List : Empty
--	--

Linear Algebra 2564-1 KCE\_DS\_Student (66) YOASOBIのベストソング - YOASOBI Python TypeError: 'int' object is not iterable Search an element in a Linked List Home Exercise Edit profile Help Log out

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Testcase student: #4/12 4

Enter Input : AP I,AP Love,AP KMITL,AP 2020,SE 2020,SI, ID KMITL,PO 1  
 Found 2020 in I Love KMITL 2020  
 Linked List size = 4 : I Love KMITL 2020  
 Index (KMITL) = 2 : I Love KMITL 2020  
 Success | I Love KMITL 2020 -> I KMITL 2020  
 Linked List : I KMITL 2020

Enter Input : AP I,AP Love,AP KMITL,AP 2020,SE 2020,SI, ID KMITL,PO 1  
 Found 2020 in I Love KMITL 2020  
 Linked List size = 4 : I Love KMITL 2020  
 Index (KMITL) = 2 : I Love KMITL 2020  
 Success | I Love KMITL 2020 -> I KMITL 2020  
 Linked List : I KMITL 2020

Testcase student: #5/12 6

Enter Input : PO -999,PO 999,PO 0,AP KMITL  
 Out of Range | Empty  
 Out of Range | Empty  
 Out of Range | Empty  
 Linked List : KMITL

Enter Input : PO -999,PO 999,PO 0,AP KMITL  
 Out of Range | Empty  
 Out of Range | Empty  
 Out of Range | Empty  
 Linked List : KMITL

Linear Algebra 2564-1 KCE\_DS\_Student (66) YOASOBIのベストソング - YOASOBI Python TypeError: 'int' object is not iterable Search an element in a Linked List Home Exercise Edit profile Help Log out

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### Programming Lab Management System

King Mongkut's Institute of Technology Ladkrabang

Testcase student: #6/12 8

Enter Input : SE KMITL,AH LOVE,AH I,AP KMITL,SE KMITL, ID KMITL,AP KMITL,SE KMITL, ID KMITL,AH KMITL,SE KMITL, ID KMITL  
 Not Found KMITL in Empty  
 Found KMITL in I LOVE KMITL  
 Index (KMITL) = 2 : I LOVE KMITL  
 Found KMITL in I LOVE KMITL KMITL  
 Index (KMITL) = 2 : I LOVE KMITL KMITL  
 Found KMITL in KMITL I LOVE KMITL KMITL  
 Index (KMITL) = 0 : KMITL I LOVE KMITL KMITL  
 Linked List : KMITL I LOVE KMITL KMITL

Enter Input : SE KMITL,AH LOVE,AH I,AP KMITL,SE KMITL, ID KMITL,AP KMITL,SE KMITL, ID KMITL,AH KMITL,SE KMITL, ID KMITL  
 Not Found KMITL in Empty  
 Found KMITL in I LOVE KMITL  
 Index (KMITL) = 2 : I LOVE KMITL  
 Found KMITL in I LOVE KMITL KMITL  
 Index (KMITL) = 2 : I LOVE KMITL KMITL  
 Found KMITL in KMITL I LOVE KMITL KMITL  
 Index (KMITL) = 0 : KMITL I LOVE KMITL KMITL  
 Linked List : KMITL I LOVE KMITL KMITL

Testcase student: #7/12 9

Enter Input : SI,AH KMITL,SI,AH LOVE,SI,AH I,SI,AP 2020,SI  
 Linked List size = 0 : Empty  
 Linked List size = 1 : KMITL  
 Linked List size = 2 : LOVE KMITL  
 Linked List size = 3 : I LOVE KMITL

Enter Input : SI,AH KMITL,SI,AH LOVE,SI,AH I,SI,AP 2020,SI  
 Linked List size = 0 : Empty  
 Linked List size = 1 : KMITL  
 Linked List size = 2 : LOVE KMITL  
 Linked List size = 3 : I LOVE KMITL

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Testcase student: #7/12 9 ✓

กศนที่ : 1  
รหัสนักศึกษา : 63010279  
นาม ณัชรัช จิราภรณ์กุลชัย<sup>กุ้ง</sup>  
วิศวกรรมคอมพิวเตอร์

Enter Input : SI,AH KMUTL,SI,AH LOVE,SI,AH I,SI,AP 2020,SI  
Linked List size = 0 : Empty  
Linked List size = 1 : KMUTL  
Linked List size = 2 : LOVE KMUTL  
Linked List size = 3 : I LOVE KMUTL  
Linked List size = 4 : I LOVE KMUTL 2020  
Linked List : I LOVE KMUTL 2020

Enter Input : SI,AH KMUTL,SI,AH LOVE,SI,AH I,SI,AP 2020,SI  
Linked List size = 0 : Empty  
Linked List size = 1 : KMUTL  
Linked List size = 2 : LOVE KMUTL  
Linked List size = 3 : I LOVE KMUTL  
Linked List size = 4 : I LOVE KMUTL 2020  
Linked List : I LOVE KMUTL 2020

Testcase student: #8/12 10 ✓

Enter Input : SE KMUTL,AH KMUTL,SE KMUTL,AH LOVE,SE KMUTL,AH I,SE 2020,AP 2020  
Not Found KMUTL in Empty  
Found KMUTL in KMUTL  
Found KMUTL in LOVE KMUTL  
Not Found 2020 in I LOVE KMUTL  
Linked List size = 4 : I LOVE KMUTL 2020  
Linked List : I LOVE KMUTL 2020

Enter Input : SE KMUTL,AH KMUTL,SE KMUTL,AH LOVE,SE KMUTL,AH I,SE 2020,AP 2020  
Not Found KMUTL in Empty  
Found KMUTL in KMUTL  
Found KMUTL in LOVE KMUTL  
Not Found 2020 in I LOVE KMUTL  
Linked List size = 4 : I LOVE KMUTL 2020  
Linked List : I LOVE KMUTL 2020

Linear Algebra 2564-1 KCE\_DS\_Student (66) YOASOBIのベストソング - YOASOBI Python TypeError: 'int' object is not iterable Search an element in a Linked List Home Exercise Edit profile Help Log out

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Programming Lab Management System King Mongkut's Institute of Technology Ladkrabang

Testcase student: #9/12 11 ✓

กศนที่ : 1  
รหัสนักศึกษา : 63010279  
นาม ณัชรัช จิราภรณ์กุลชัย<sup>กุ้ง</sup>  
วิศวกรรมคอมพิวเตอร์

Enter Input : ID 1, ID WOW, AP WOW, AP KMUTL, ID 1, ID WOW  
Index (1) = -1 : Empty  
Index (WOW) = -1 : Empty  
Index (1) = -1 : WOW KMUTL  
Index (WOW) = 0 : WOW KMUTL  
Linked List : WOW KMUTL

Enter Input : ID 1, ID WOW, AP WOW, AP KMUTL, ID 1, ID WOW  
Index (1) = -1 : Empty  
Index (WOW) = -1 : Empty  
Index (1) = -1 : WOW KMUTL  
Index (WOW) = 0 : WOW KMUTL  
Linked List : WOW KMUTL

Testcase student: #10/12 12 ✓

This testcase is hidden.

Page rendered in 0.1181 seconds. CodeIgniter Version 3.1.2 Tue Sep 21 12:37:44

ข้อ 2

You have got full mark !!!

Last submission :

```
1 ...
2 * ຄູນຫີ່ : 21010001
3 * 63010279 ດົກທີ່ ລາວພະນັກງົມ
4 * chapter : 5 item : 2 ອົງຫີ່ : 0003
5 * Assigned : Sunday 12th of September 2021 09:44:44 PM --> Submission : Monday 20th of September 2021 03:03:43 AM
6 * Elapsed time : 10398 minutes.
7 * filename : 63010279_Lab5_2.py
8 ...
9 class Node:
10     def __init__(self, data):
11         self.value = data
12         self.next = None
13         self.previous = None
14
15 class Linkedlist:
```

Number of testcase : 6

Testcase student: #1/6 1

Testcase student: #1/6 1

```
Enter Input : A 3,A 4,Ab 0,I 1:2
linked list : 3
reverse : 3
linked list : 3->4
reverse : 4->3
linked list : 0->3->4
reverse : 4->3->0
index = 1 and data = 2
linked list : 0->2->3->4
reverse : 4->3->2->0
```

```
Enter Input : A 3,A 4,Ab 0,I 1:2
linked list : 3
reverse : 3
linked list : 3->4
reverse : 4->3
linked list : 0->3->4
reverse : 4->3->0
index = 1 and data = 2
linked list : 0->2->3->4
reverse : 4->3->2->0
```

Testcase student: #2/6 2

```
Enter Input : I -1:0,I 10:10,I 0:0
Data cannot be added
linked list :
reverse :
Data cannot be added
linked list :
reverse :
index = 0 and data = 0
```

```
Enter Input : I -1:0,I 10:10,I 0:0
Data cannot be added
linked list :
reverse :
Data cannot be added
linked list :
reverse :
index = 0 and data = 0
```

Linear Algebra 2564-1 KCE\_DS\_Student (66) YOASOBIのベストソング - YOASOBI Python TypeError: 'int' object is not iterable Search an element in a Linked List Home Exercise Edit profile Help Log out

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### Programming Lab Management System

#### King Mongkut's Institute of Technology Ladkrabang

#### Testcase student: #3/6 3



กศนที่ : 1  
รหัสนักศึกษา : 63010279  
นาม ณัชกร จิราภรณ์กุลชัย<sup>กศ</sup>  
วิศวกรรมคอมพิวเตอร์

```
Enter Input : R 0,A 1,A 1,A 2,R 1
Not Found!
linked list :
reverse :
linked list : 1
reverse : 1
linked list : 1->1
reverse : 1->1
linked list : 1->1->2
reverse : 2->1->1
removed : 1 from index : 0
linked list : 1->2
reverse : 2->1

Enter Input : R 0,A 1,A 1,A 2,R 1
Not Found!
linked list :
reverse :
linked list : 1
reverse : 1
linked list : 1->1
reverse : 1->1
linked list : 1->1->2
reverse : 2->1->1
removed : 1 from index : 0
linked list : 1->2
reverse : 2->1
```

#### Testcase student: #4/6 4

```
Enter Input : R 0, I -1:0, Ab 0, A 1, R 0, I 0:0, A 99, I 3:59, I 0:0, R 99,
Not Found!
linked list :
reverse :
Data cannot be added
linked list :
```

```
Enter Input : R 0, I -1:0, Ab 0, A 1, R 0, I 0:0, A 99, I 3:59, I 0:0, R 99,
Not Found!
linked list :
reverse :
Data cannot be added
linked list :
```

Linear Algebra 2564-1 KCE\_DS\_Student (66) YOASOBIのベストソング - YOASOBI Python TypeError: 'int' object is not iterable Search an element in a Linked List Home Exercise Edit profile Help Log out

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### Programming Lab Management System

#### King Mongkut's Institute of Technology Ladkrabang

#### Testcase student: #4/6 4



กศนที่ : 1  
รหัสนักศึกษา : 63010279  
นาม ณัชกร จิราภรณ์กุลชัย<sup>กศ</sup>  
วิศวกรรมคอมพิวเตอร์

```
Enter Input : R 0, I -1:0, Ab 0, A 1, R 0, I 0:0, A 99, I 3:59, I 0:0, R 99,
Not Found!
linked list :
reverse :
Data cannot be added
linked list :
reverse :
linked list : 0
reverse : 0
linked list : 0->1
reverse : 1->0
removed : 0 from index : 0
linked list : 1
reverse : 1
index = 0 and data = 0
linked list : 0->1
reverse : 1->0
linked list : 0->1->99
reverse : 99->1->0
index = 3 and data = 59
linked list : 0->1->99->59
reverse : 59->99->1->0
index = 0 and data = 0
linked list : 0->0->1->99->59
reverse : 59->99->1->0->0
removed : 99 from index : 3
linked list : 0->0->1->59
reverse : 59->1->0->0
linked list : 0->0->1->59->10

Enter Input : R 0, I -1:0, Ab 0, A 1, R 0, I 0:0, A 99, I 3:59, I 0:0, R 99,
Not Found!
linked list :
reverse :
Data cannot be added
linked list :
reverse :
linked list : 0
reverse : 0
linked list : 0->1
reverse : 1->0
linked list : 0->1->99
reverse : 99->1->0
index = 3 and data = 59
linked list : 0->1->99->59
reverse : 59->99->1->0
index = 0 and data = 0
linked list : 0->0->1->99->59
reverse : 59->99->1->0->0
removed : 99 from index : 3
linked list : 0->0->1->59
reverse : 59->1->0->0
linked list : 0->0->1->59->10
```

Linear Algebra 2564-1 KCE\_DS.Student (66) YOASOB! のベストソング - YOAI Python TypeError: 'int' object is not subscriptable Search an element in a Linked List - +

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## Programming Lab Management System

King Mongkut's Institute of Technology Ladkrabang

Home Exercise Edit profile Help Log out



กศุภนที : 1  
รหัสนักศึกษา : 63010279  
นาม ณัฐพงษ์ ริเวรารอนคลับบี้  
กศุภนที : 1  
วิศวกรรมคอมพิวเตอร์

```
reverse : 1  
linked list : 0->1  
reverse : 1->0  
removed : 0 from index : 0  
linked list : 1  
reverse : 1  
removed : 1 from index : 0  
linked list :  
reverse :
```

```
reverse : 1  
linked list : 0->1  
reverse : 1->0  
removed : 0 from index : 0  
linked list : 1  
reverse : 1  
removed : 1 from index : 0  
linked list :  
reverse :
```

Testcase student: #6/6 6

This testcase is hidden.

Page rendered in 0.1237 seconds. CodeIgniter Version 3.1.2 Tue Sep 21 12:39:27

ข้อ 3

You have got full mark !!!

### Last submission :

```
1 ...
2 * ກົດລື້ອງ : 21010001
3 * 63010279 ນັບນີ້ ຂໍາລັດນຸ່ມຂຶ້ນ
4 * chapter : 5 item : 3 ຄື່ອງລື້ອງ : 0001
5 * Assigned : Sunday 12th of September 2021 09:44:46 PM --> Submission : Monday 20th of September 2021 09:02:45 AM
6 * Elapsed time : 10757 minutes.
7 * filename : 63010279_Lab5_3.py
8 ...
9 class Node:
10     def __init__(self, data):
11         self.value = data
12         self.next = None
13         self.previous = None
14
15 class LinkedList:
```

### Number of testcase : 5

Testcase student: #1/5 1

### Number of testcase : 5

Testcase student: #1/5 1

```
Enter Input (L1,L2) : 1 2
L1 : 1
L2 : 2
Merge : 1 2
```

```
Enter Input (L1,L2) : 1 2
L1 : 1
L2 : 2
Merge : 1 2
```

### Testcase student: #2/5 2

```
Enter Input (L1,L2) : 1->2->3 4->5
L1 : 1 2 3
L2 : 4 5
Merge : 1 2 3 5 4
```

```
Enter Input (L1,L2) : 1->2->3 4->5
L1 : 1 2 3
L2 : 4 5
Merge : 1 2 3 5 4
```

### Testcase student: #3/5 3

Screenshot of a web-based programming lab management system for KMITL students.

The interface includes:

- Header: Linear Algebra 2564-1, KCE\_DS\_Student, Python TypeError: 'int' object is not iterable, Search an element in a Linked List
- Navigation: Home, Exercise, Edit profile, Help, Log out
- Section: Programming Lab Management System, King Mongkut's Institute of Technology Ladkrabang
- Testcase student: #3/5 3 (Passed)
- Testcase student: #4/5 4 (Passed)
- Testcase student: #5/5 5 (Passed)

Details for Testcase student: #3/5 3:

Input: Enter Input (L1,L2) : I->Love->KMITL Datastruct->and  
L1 : I Love KMITL  
L2 : Datastruct and  
Merge : I Love KMITL and Datastruct

Output: Enter Input (L1,L2) : I->Love->KMITL Datastruct->and  
L1 : I Love KMITL  
L2 : Datastruct and  
Merge : I Love KMITL and Datastruct

Details for Testcase student: #4/5 4:

Input: Enter Input (L1,L2) : CE->2D Lardkrabang->KMITL  
L1 : CE 2D  
L2 : Lardkrabang KMITL  
Merge : CE 2D KMITL Lardkrabang

Output: Enter Input (L1,L2) : CE->2D Lardkrabang->KMITL  
L1 : CE 2D  
L2 : Lardkrabang KMITL  
Merge : CE 2D KMITL Lardkrabang

ข้อ 4

You have got full mark !!!

### Last submission :

```
1 ...
2 * ລົດທີ : 21010001
3 * 63010279 ນັກຮຽນ ຊາວພັນຄຸນພື້ນ
4 * chapter : 5 item : 4 ຄົງທີ : 0001
5 * Assigned : Sunday 12th of September 2021 09:44:48 PM --> Submission : Monday 20th of September 2021 07:42:47 PM
6 * Elapsed time : 11397 minutes.
7 * filename : 63010279_Lab5_4.py
8 ...
9 class Node:
10     def __init__(self, data):
11         self.value = data
12         self.next = None
13         self.previous = None
14
15 *
```

Number of testcase : 11

Testcase student: #1/11 1

Testcase student: #1/11 1

Enter input : A 0,A 1,S 2:0 0 0->1 Error! {index not in length}: 2 No Loop 0->1	Enter input : A 0,A 1,S 2:0 0 0->1 Error! {index not in length}: 2 No Loop 0->1
--	--

Testcase student: #2/11 2

Enter input : A 0,A 1,S 0:2 0 0->1 index not in length, append : 2 No Loop 0->1->2	Enter input : A 0,A 1,S 0:2 0 0->1 index not in length, append : 2 No Loop 0->1->2
---	---

Linear Algebra 2564-1 KCE\_DS\_Student (66) YOASOBIのベストソング - YOASOBI Python TypeError: 'int' object is not iterable Search an element in a Linked List Home Exercise Edit profile Help Log out

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Testcase student: #3/11 3 ✓

Enter input : A 0,A 1,S 1:0  
0  
0->1  
Set node.next complete!, index:value = 1:1 -> 0:0  
Found Loop

Enter input : A 0,A 1,S 1:0  
0  
0->1  
Set node.next complete!, index:value = 1:1 -> 0:0  
Found Loop

Testcase student: #4/11 4 ✓

Enter input : S 0:0  
Error! (list is empty)  
No Loop  
Empty

Enter input : S 0:0  
Error! (list is empty)  
No Loop  
Empty

Testcase student: #5/11 5 ✓

Linear Algebra 2564-1 KCE\_DS\_Student (66) YOASOBIのベストソング - YOASOBI Python TypeError: 'int' object is not iterable Search an element in a Linked List Home Exercise Edit profile Help Log out

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Programming Lab Management System King Mongkut's Institute of Technology Ladkrabang

Testcase student: #5/11 5 ✓

Enter input : A 0,A 3,A 5,A 7,A 9,S 2:0  
0  
0->3  
0->3->5  
0->3->5->7  
0->3->5->7->9  
Set node.next complete!, index:value = 2:5 -> 0:0  
Found Loop

Enter input : A 0,A 3,A 5,A 7,A 9,S 2:0  
0  
0->3  
0->3->5  
0->3->5->7  
0->3->5->7->9  
Set node.next complete!, index:value = 2:5 -> 0:0  
Found Loop

Testcase student: #6/11 6 ✓

Enter input : A 0,A 1,A 2,S 0:2  
0  
0->1  
0->1->2  
Set node.next complete!, index:value = 0:0 -> 2:2  
No Loop  
0->2

Enter input : A 0,A 1,A 2,S 0:2  
0  
0->1  
0->1->2  
Set node.next complete!, index:value = 0:0 -> 2:2  
No Loop  
0->2

Linear Algebra 2564-1 KCE\_DS\_Student (66) YOASOBIのベストソング - YOASOBI Python TypeError: 'int' object is not iterable Search an element in a Linked List Home Exercise Edit profile Help Log out

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Programming Lab Management System King Mongkut's Institute of Technology Ladkrabang

Testcase student: #7/11 7 ✓

Enter input : S 0:0,A 0,A 0,S 0:5,S 0:3,A 5,S 2:1  
Error! {list is empty}  
0  
0->0  
0->0->0  
index not in length, append : 5  
Set node.next complete!, index:value = 0:0 -> 3:5  
0->5->5  
Set node.next complete!, index:value = 2:5 -> 1:5  
Found Loop

Enter input : S 0:0,A 0,A 0,A 0,S 0:5,S 0:3,A 5,S 2:1  
Error! {list is empty}  
0  
0->0  
0->0->0  
index not in length, append : 5  
Set node.next complete!, index:value = 0:0 -> 3:5  
0->5->5  
Set node.next complete!, index:value = 2:5 -> 1:5  
Found Loop

Testcase student: #8/11 8 ✓

Enter input : S 0:0,A 0  
Error! {list is empty}  
0  
No Loop  
0

Enter input : S 0:0,A 0  
Error! {list is empty}  
0  
No Loop  
0

Linear Algebra 2564-1 KCE\_DS\_Student (66) YOASOBIのベストソング - YOASOBI Python TypeError: 'int' object is not iterable Search an element in a Linked List Home Exercise Edit profile Help Log out

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Testcase student: #9/11 9 ✓

Enter input : A 0,A -1,A -1,S 2:2  
0  
0->-1  
0->-1->-1  
Set node.next complete!, index:value = 2:-1 -> 2:-1  
Found Loop

Enter input : A 0,A -1,A -1,S 2:2  
0  
0->-1  
0->-1->-1  
Set node.next complete!, index:value = 2:-1 -> 2:-1  
Found Loop

Testcase student: #10/11 11 ✓

This testcase is hidden.

Page rendered in 0.1058 seconds. CodeIgniter Version 3.1.2 Tue Sep 21 12:41:16

ข้อ 5

You have got full mark !!!

### Last submission :

```
1 ...
2 * ຄູນຫີ່ : 21010001
3 * 63010279 ນັກຮຽນ ຊາວັດນຸ້ມບັນຍົມ
4 * chapter : 5 item : 5 ຕົ້ນຫີ່ : 0003
5 * Assigned : Sunday 12th of September 2021 09:44:50 PM --> Submission : Tuesday 21st of September 2021 04:38:57 AM
6 * Elapsed time : 11934 minutes.
7 * filename : 63010279_Lab5_5.py
8 ...
9 class Node:
10     def __init__(self, data):
11         self.value = data
12         self.next = None
13
14 class LinkedList:
15     def __init__(self):
```

Number of testcase : 7

Testcase student: #1/7 1

Testcase student: #1/7 1

Enter Input : 64 8 216 512 27 729 0 1 343 125	Enter Input : 64 8 216 512 27 729 0 1 343 125
Round : 1 0 : 0 1 : 1 2 : 512 3 : 343 4 : 64 5 : 125 6 : 216 7 : 27 8 : 8 9 : 729	Round : 1 0 : 0 1 : 1 2 : 512 3 : 343 4 : 64 5 : 125 6 : 216 7 : 27 8 : 8 9 : 729
Round : 2 0 : 0 1 8 1 : 216 512 2 : 27 125 729 3 : 4 : 343 5 : 6 : 64 7 : 8 : 9 : -----	Round : 2 0 : 0 1 8 1 : 216 512 2 : 27 125 729 3 : 4 : 343 5 : 6 : 64 7 : 8 : 9 : -----
Round : 3 0 : 0 1 8 27 64 1 : 216 512	Round : 3 0 : 0 1 8 27 64 1 : 216 512

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**Testcase student: #2/7 2**

Enter Input : -123 456 -789 0 27 3645 133 -142 -5038594 15615 668 2 -1 72

```
Round : 1
0 : 0
1 : -1
2 : -142 2 72
3 : -123 133
4 : -5038594
5 : 3645 15615
6 : 456
7 : 27
8 : 668
9 : -789
```

```
Round : 2
0 : -1 0 2
1 : 15615
2 : -123 27
3 : 133
4 : -142 3645
5 : 456
6 : 668
7 : 72
8 : -789
9 : -5038594
```

```
Round : 3
0 : -1 0 2 27 72
```

Enter Input : -123 456 -789 0 27 3645 133 -142 -5038594 15615 668 2 -1 72

```
Round : 1
0 : 0
1 : -1
2 : -142 2 72
3 : -123 133
4 : -5038594
5 : 3645 15615
6 : 456
7 : 27
8 : 668
9 : -789
```

```
Round : 2
0 : -1 0 2
1 : 15615
2 : -123 27
3 : 133
4 : -142 3645
5 : 456
6 : 668
7 : 72
8 : -789
9 : -5038594
```

```
Round : 3
0 : -1 0 2 27 72
```



กศนที่: 1  
รหัสนักศึกษา: 63010279  
นาม ณัชกร จิราภรณ์กุลชัย<sup>กศ</sup>  
วิศวกรรมคอมพิวเตอร์

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**Testcase student: #3/7 3**

Enter Input : -1 -9 -3 -6 -5 -4 -7 0 -8 -2 3 2 5 1 4 9 8 7 6

```
Round : 1
0 : 0
1 : -1 1
2 : -2 2
3 : -3 3
4 : -4 4
5 : -5 5
6 : -6 6
7 : -7 7
8 : -8 8
9 : -9 9
```

```
Round : 2
0 : -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9
```

Enter Input : -1 -9 -3 -6 -5 -4 -7 0 -8 -2 3 2 5 1 4 9 8 7 6

```
Round : 1
0 : 0
1 : -1 1
2 : -2 2
3 : -3 3
4 : -4 4
5 : -5 5
6 : -6 6
7 : -7 7
8 : -8 8
9 : -9 9
```

```
Round : 2
0 : -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9
```

1 Time(s)



กศนที่: 1  
รหัสนักศึกษา: 63010279  
นาม ณัชกร จิราภรณ์กุลชัย<sup>กศ</sup>  
วิศวกรรมคอมพิวเตอร์

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Testcase student: #4/7 4

Enter Input : 15 -15

```
Round : 1
0 :
1 :
2 :
3 :
4 :
5 : -15 15
6 :
7 :
8 :
9 : 
```

กศนที่: 1  
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Enter Input : 15 -15

```
Round : 1
0 :
1 :
2 :
3 :
4 :
5 : -15 15
6 :
7 :
8 :
9 : 
```

Round : 2
0 :
1 : -15 15
2 :
3 :
4 :
5 :
6 :
7 :
8 :
9 : 

Round : 3
0 : -15 15
1 :

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Testcase student: #5/7 5

Enter Input : -123456789 987654321 123456789 -987654321

```
Round : 1
0 :
1 : -987654321 987654321
2 :
3 :
4 :
5 :
6 :
7 :
8 :
9 : -123456789 123456789 
```

กศนที่: 1  
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Enter Input : -123456789 987654321 123456789 -987654321

```
Round : 1
0 :
1 : -987654321 987654321
2 :
3 :
4 :
5 :
6 :
7 :
8 :
9 : -123456789 123456789 
```

Round : 2
0 :
1 :
2 : -987654321 987654321
3 :
4 :
5 :
6 :
7 :
8 : -123456789 123456789
9 :

Round : 3
0 :

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Testcase student: #6/7 6

Enter Input : 0 0 0 0 0 0 0

-----

Round : 1

0 : 0 0 0 0 0 0 0

1 :

2 :

3 :

4 :

5 :

6 :

7 :

8 :

9 :

-----

0 Time(s)

Before Radix Sort : 0 -> 0 -> 0 -> 0 -> 0 -> 0 -> 0

After Radix Sort : 0 -> 0 -> 0 -> 0 -> 0 -> 0 -> 0

-----

Enter Input : 0 0 0 0 0 0 0

-----

Round : 1

0 : 0 0 0 0 0 0 0

1 :

2 :

3 :

4 :

5 :

6 :

7 :

8 :

9 :

-----

0 Time(s)

Before Radix Sort : 0 -> 0 -> 0 -> 0 -> 0 -> 0 -> 0

After Radix Sort : 0 -> 0 -> 0 -> 0 -> 0 -> 0 -> 0

-----

Testcase student: #7/7 7