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Test TIP102: Unit 6 Version A (Standard) - Summer 2025

Candidate Packet View ℃

Taken on 9 Jul 2025 13:33:17 PDT

Time taken 65 min 19 sec/ 90 min

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Skill Distribution



Candidate Report Page 1 of 22

There is no associated skills data that can be shown for this assessment

Tags Distribution



There is no associated tags data that can be shown for this assessment

Questions

Coding Questions • 60 / 60

Status	No.	Question	Time Taken	Skill	Score	Code Quality
8	1	Create a Linked List Coding	5 min 24 sec	-	20/20	-
⊗	2	Insert Node Into Sorted List Coding	22 min 33 sec	-	20/20	-

Candidate Report Page 2 of 22

S Longer List 9 min - 20/20 - Coding

Multiple Choice + Debugging • 20 / 20

Status	No.	Question	Time Taken	Skill	Score	Code Quality
8	4	Which of the following options best represents the linked list with head new_head after running the following code snippet? Multiple Choice	7 min 31 sec	-	5/5	-
⊗	5	What is the time complexity of mystery_function()? Multiple Choice	3 min 27 sec	-	5/5	-
⊗	6	Which of the following options best represents the linked list with head new_head after running the following code snippet? Multiple Choice	11 min 18 sec	-	5/5	-
8	7	Debug this code Coding	5 min 41 sec	-	5/5	-

1. Create a Linked List

⊘ Correct

Coding

Language used: Python 3

Question description

Given a list of integers, write a function create_linked_list(values) that creates a singly linked list where each node contains one of the integers from the list in the same order. The function should return the head of the linked list.

Example:

- **Input:** values = [1, 2, 3, 4]
- Output: The linked list should be represented as 1 -> 2 -> 3 -> 4.

Constraints:

• The list of integers will have at least one element and will not exceed 1000 elements.

Notes:

• A helper function print_linked_list(head) is provided to test your implementation. It prints the values in the linked list, separated by arrows (->).

Candidate's Solution

```
1 #!/bin/python
 2
 3 import math
 4 import os
 5 import random
 6 import re
7 import sys
  import ast
9
10 class ListNode:
       def __init__(self, val=0, next=None):
11
            self.val = val
12
13
            self.next = next
14
15 class SinglyLinkedList:
16
       def __init__(self):
17
            self.head = None
18
            self.tail = None
19
20
       def insert node(self, val):
            node = ListNode(val)
21
22
23
            if not self.head:
24
                self.head = node
25
            else:
```

Candidate Report Page 4 of 22

```
26
                self.tail.next = node
27
28
            self.tail = node
29
30 def print linked list(head):
31
       current = head
32
       while current:
33
            if current.next:
                sys.stdout.write(str(current.val) + " -> ")
34
35
            else:
36
                sys.stdout.write(str(current.val) + "\n")
37
            current = current.next
38
39
40
41 #
42 # Complete the 'create linked list' function below.
43 #
44 # The function is expected to return an INTEGER SINGLY LINKED LIST.
45 # The function accepts INTEGER ARRAY values as parameter.
46 #
47
48 def create linked list(values):
       # Write your code here
49
50
       if not values:
51
            return None
52
       head = ListNode(values[0])
53
       current = head
54
       for val in values[1:]:
55
            current.next = ListNode(val)
            current = current.next
56
57
        return head
58
59
   if name == ' main ':
       outfile = open(os.environ['OUTPUT PATH'], 'w')
60
61
       def ll to str(head):
62
63
            list str = ""
            curr = head
64
65
            while curr:
66
                list str += str(curr.val)
67
                if curr.next:
                    list str += " -> "
68
69
                curr = curr.next
            if len(list str) == 0:
70
                return "None"
71
```

Candidate Report Page 5 of 22

```
return list_str
72
73
       input_data = input()
74
       while(input_data != "END"):
75
           param_list = ast.literal_eval(input_data)
76
           result_raw = create_linked_list(param_list)
77
            result = ll to str(result raw)
78
           outfile.write(str(result) + '\n')
79
           input_data = input()
80
       outfile.close()
81
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Multiple Elements	Easy	Hidden	Success	0	0.0425 sec	10.8 KB
Empty List	Easy	Hidden	Success	0	0.0318 sec	11 KB
Single Element	Easy	Hidden	Success	0	0.0335 sec	10.9 KB
Two Elements	Easy	Hidden	Success	0	0.0289 sec	10.9 KB
List with Negative Numbers	Easy	Hidden	Success	0	0.0307 sec	10.9 KB
List with Duplicates	Easy	Hidden	Success	0	0.0339 sec	11 KB
List with Mixed Numbers	Hard	Hidden	Success	0	0.0278 sec	11 KB

Candidate Report Page 6 of 22

List with Zero	Hard	Hidden	Success	0	0.0288 sec	10.9 KB
Pass/Fail Case	Easy	Hidden	Success	20	0.0278 sec	11 KB

No comments.

2. Insert Node Into Sorted List

⊘ Correct

Coding

Question description

You are given the **head of a sorted singly linked list** and a value. Create a new node with value value and insert it into the provided linked list while maintaining the sorted order of the nodes. Your task is to implement the insert_sorted() function that inserts the new node into the correct position **without disrupting the sorted order**.

```
Example 1:
```

Input: head = 1 -> 3 -> 5, value = 4

Output: 1 -> 3 -> 4 -> 5

Example 2:

Input: head = 2 -> 6 -> 8, value = 1

Output: 1 -> 2 -> 6 -> 8

Candidate's Solution

Language used: Python 3

- 1 import math
- 2 import os
- 3 import random
- 4 import re

Candidate Report

```
5 import sys
6 import ast
7
8 class ListNode:
9
       def __init__(self, val=0, next=None):
10
           self.val = val
           self.next = next
11
12
13 # Function to insert a node into a sorted linked list
14 def insert sorted(head, value):
15
       value node = ListNode(value)
16
       if head is None or value < head.val:
17
           value node.next = head
18
19
           return value node
20
21
       current = head
22
       while current.next and current.next.val < value:
23
           current = current.next
24
25
       value node.next = current.next
26
       current.next = value node
27
       return head
28 import sys
29
30 # Helper function to create a linked list from a list of values
31 def create linked list(values):
32
       if not values:
33
           return None
       head = ListNode(values[0])
34
35
       current = head
36
       for value in values[1:]:
37
           current.next = ListNode(value)
38
           current = current.next
39
       return head
40
41 # Helper function to convert linked list to a list
42 def linked list to list(head):
43
       result = []
44
       while head:
45
           result.append(head.val)
46
           head = head.next
47
       return result
48
49 if name == " main ":
       input data = sys.stdin.read().strip().split("\n")
50
```

Candidate Report Page 8 of 22

```
51
       results = []
52
       for line in input_data:
53
54
           values, value = eval(line) # Parse input as list of values and a new
   value
           head = create_linked_list(values)
55
           updated head = insert sorted(head, value)
56
            results.append(linked_list_to_list(updated_head))
57
58
       for res in results:
59
           print(res)
60
61
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Hidden	Success	0	0.0295 sec	10.9 KB
Testcase 1	Easy	Hidden	Success	0	0.0301 sec	10.9 KB
Testcase 2	Easy	Hidden	Success	0	0.0264 sec	10.9 KB
Testcase 3	Easy	Hidden	Success	0	0.0278 sec	10.9 KB
Testcase 4	Easy	Hidden	Success	0	0.0304 sec	10.9 KB
Testcase 5	Easy	Hidden	Success	0	0.0277 sec	10.9 KB
Testcase 6	Easy	Hidden	Success	0	0.0317 sec	10.9 KB

Candidate Report Page 9 of 22

Testcase 7	Easy	Hidden	Success	0	0.0664 sec	10.9 KB
Testcase 8	Easy	Hidden	Success	0	0.0265 sec	10.9 KB
Testcase 9	Easy	Hidden	Success	0	0.029 sec	10.9 KB
Pass/Fail Testcases	Easy	Hidden	Success	20	0.0312 sec	10.9 KB

No comments.

3. Longer List

Coding

Question description

Implement a function <code>longer_list()</code> that accepts the heads of two singly linked lists, <code>head a and head b</code>. Return the head of the linked list with the greatest length.

Candidate's Solution

Language used: Python 3

```
#!/bin/python

import math
import os
import random
import re
import sys
import ast

class Node:
def __init__(self, val=None):
```

Candidate Report Page 10 of 22

```
self.val = val
12
13
            self.next = None
14
15 class ListNode:
16
       def __init__(self, val=0, next=None):
17
            self.val = val
            self.next = next
18
19
20 class SinglyLinkedList:
21
        def init (self):
22
            self.head = None
23
            self.tail = None
24
25
        def insert node(self, val):
            node = ListNode(val)
26
27
28
            if not self.head:
29
                self.head = node
30
            else:
                self.tail.next = node
31
32
            self.tail = node
33
34
35 # Helper function to print linked list (for testing)
   def print linked list(head):
36
37
        current = head
38
       while current:
39
            if current.next:
                sys.stdout.write(str(current.val) + " -> ")
40
41
            else:
                sys.stdout.write(str(current.val) + "\n")
42
43
            current = current.next
44
45 # Helper function to create a linked list from a list of values
46 | def create linked list(vals):
        temp = ListNode()
47
48
       current = temp
       for val in vals:
49
50
            current.next = ListNode(val)
51
            current = current.next
52
        return temp.next
53 #
54 # Complete the 'longer list' function below.
55 #
56 # The function is expected to return an INTEGER SINGLY LINKED LIST.
57 # The function accepts following parameters:
```

Candidate Report Page 11 of 22

```
1. INTEGER ARRAY head1
 58 #
 59 #
       2. INTEGER ARRAY head2
 60 #
 61
 62 def longer_list(head1, head2):
 63
        # Write your code here
        length1 = get length(head1)
 64
        length2 = get_length(head2)
 65
 66
 67
        if length1 >= length2:
 68
             return head1
 69
        else:
 70
             return head2
 71
 72 def get length(head):
 73
        length = 0
 74
        while head:
 75
            length += 1
 76
            head = head.next
        return length
 77
 78
 79 if name == ' main ':
 80
        #input data = sys.stdin.read().strip()
        #input list = ast.literal eval(input data)
 81
 82
 83
        #head1 = create linked list(input list[0])
 84
        #head2 = create linked list(input list[1])
 85
 86
        #result = longer list(head1, head2)
 87
        #print linked list(result)
 88
 89
        outfile = open(os.environ['OUTPUT PATH'], 'w')
 90
        # Helper function to convert str -> linked list
 91
 92
        def str to ll(vals str):
             if vals str is None or vals_str == "None":
 93
                 return None
 94
 95
            vals = vals str.split("->")
             temp head = Node("temp")
96
97
            temp curr = temp head
            for val in vals:
98
99
                 temp curr.next = Node(val.strip())
                 temp curr = temp_curr.next
100
             return temp head.next #Don't keep the temp head
101
102
103
        # Helper function to convert linked list -> str
```

Candidate Report Page 12 of 22

```
104
        def ll to str(head):
            list str = ""
105
106
             curr = head
107
             while curr:
                 list str += str(curr.val)
108
109
                 if curr.next:
110
                     list str += "->"
111
                 curr = curr.next
112
             if len(list str) == 0:
                 return "None"
113
114
             return list str
115
116
        test str = input()
        while(test str != "END"):
117
118
             # Convert input string to list of param strings
119
             param list = ast.literal eval(test str)
120
121
             # TODO: Edit parameters as needed
122
             head1 = str to ll(param list[0])
            head2 = str_to_ll(param_list[1])
123
124
125
             # TODO: Edit function name and prepare result string
             result raw = longer list(head1, head2)
126
             result = ll to str(result raw)
127
128
129
             # Write output and check for another test case
130
             outfile.write(str(result) + '\n')
131
             test str = input()
132
133
        outfile.close()
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Hidden	Success	0	0.0288 sec	10.9 KB
Both Lists Are Empty	Easy	Hidden	Success	0	0.03 sec	11 KB

Candidate Report Page 13 of 22

One List Is Empty, the Other Is Not	Easy	Hidden	Success	0	0.0452 sec	11.1 KB
One List Is Empty, the Other Is Not	Easy	Hidden	Success	0	0.0302 sec	11.1 KB
Both Lists Have the Same Length 1 -> 2 -> 3	Easy	Hidden	Success	0	0.0303 sec	11.1 KB
Both Lists Have the Same Length 4 -> 5 -> 6	Easy	Hidden	Success	0	0.0284 sec	11 KB
Lists with One Element Each 7	Easy	Hidden	Success	0	0.0359 sec	11 KB
Lists with One Element Each 8	Easy	Hidden	Success	0	0.03 sec	11 KB
One List Is Longer Than the Other	Easy	Hidden	Success	0	0.0314 sec	11.1 KB
One List Is Longer Than the Other	Easy	Hidden	Success	0	0.0285 sec	11.1 KB
Lists with Negative and Positive Numbers	Easy	Hidden	Success	0	0.0351 sec	11.1 KB
Lists with Repeated Elements	Easy	Hidden	Success	0	0.0313 sec	11.1 KB

Candidate Report Page 14 of 22

Single Element in Each List but Different Values	Easy	Hidden	Success	0	0.0286 sec	10.9 KB
Pass/Fail Case	Easy	Hidden	Success	20	0.0282 sec	11 KB

No comments.

4. Which of the following options best represents the linked list with head new_head after running the following code snippet?

⊘ Correct

Multiple Choice

Question description

Which of the following options best represents the linked list with head new_head after running the following code snippet?

```
class Node:
    def __init__(self, value, next_node = None):
        self.value = value
        self.next = next_node

def mystery_function(head):
    if head is None:
        return None

if head.next is None:
    return None

current = head
    while current.next.next:
        current = current.next
current.next = None
    return head
```

Candidate Report Page 15 of 22

Input List: 1 -> 2 -> 3
head = Node(1, Node(2, Node(3)))
new_head = mystery_function(head)

Candidate's Solution

Options: (Expected answer indicated with a tick)

- 1 -> 2 -> 3<!- notionvc: 0042e942-202a-425f-82bc-4b645615a0a2 -->
- 1 -> 2<!-notionvc: 5a98fe1f-1523-4b2c-9eb1-4885fcf50a20 -->
- 3 -> 2 -> 1<!- notionvc: 91d5499f-e65e-4b33-9dc7-afbd00e2fb4f -->
- None
- No comments.

5. What is the time complexity of mystery_function()?

Multiple Choice

Candidate Report Page 16 of 22

Question description

What is the time complexity of mystery function()?

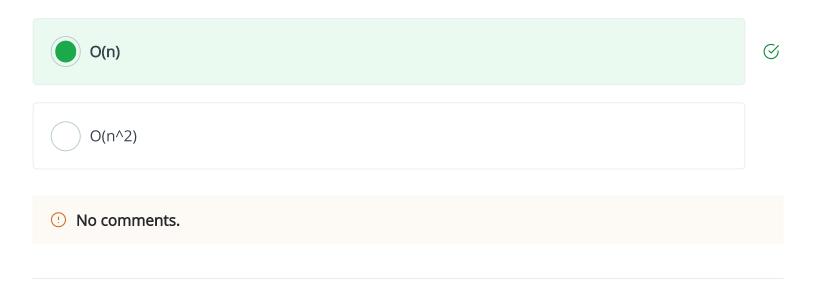
```
# Definition for singly-linked list.
class SinglyLinkedListNode:
  def __init__(self, node_data):
    self.data = node_data
    self.next = None
def mystery_function(head):
  if not head or not head.next:
    return None
  current = head
  while current.next and current.next.next:
    current = current.next
  current.next = None
  return head
# Example Usage:
# Input List: a -> b -> c -> d
head = ListNode('a', ListNode('b', ListNode('c', ListNode('d'))))
new_head = mystery_function(head)
```

Candidate's Solution

Options: (Expected answer indicated with a tick)

O(1)			
O(log n)			

Candidate Report Page 17 of 22



6. Which of the following options best represents the linked list with head new_head after running the following code snippet?



Multiple Choice

Question description

Which of the following options best represents the linked list with head new_head after running the following code snippet?

```
class SinglyLinkedListNode:
    def __init__(self, node_data):
        self.data = node_data
        self.next = None

def mystery_function(head):
    if not head or not head.next:
        return head

prev = None
tail = head
while tail.next:
    prev = tail
tail = tail.next

if not prev:
    return head

tail.next = head.next
```

Candidate Report Page 18 of 22

```
prev.next = head
head.next = None

return tail

# Input List: 1 -> 2 -> 3 -> 4 -> 5
head = ListNode(1, ListNode(2, ListNode(3, ListNode(4, ListNode(5)))))
new_head = mystery_function(head)
```

Candidate's Solution

Options: (Expected answer indicated with a tick)

- 1 -> 2 -> 3 -> 4 > 5<!-- notionvc: ed66848e-4e4f-4baa-b77a-7e95d1c80a4e -->
- 1 -> 2 -> 3 -> 4<!-- notionvc: 28341557-c82c-4431-a6e0-943274353b1a -->
- 5 -> 4 -> 3 -> 2 > 1<!-- notionvc: e342538b-b38e-4c90-93a9-727cb49fd119 -->
- 5 -> 2 -> 3 -> 4 > 1<!-- notionvc: 108b5cd0-c143-4b28-bff7-a4ac9fce6777 -->

 \odot

No comments.

Candidate Report Page 19 of 22

Language used: Python 3

7. Debug this code

Coding

Question description

The following function is supposed to remove all duplicate values from a **sorted** singly linked list so that each element appears only once. However, the implementation contains one or more errors that prevent it from working correctly.

Your task is to identify the bug(s) in the given implementation and correct them so that it successfully removes all duplicate elements from the linked list.

```
Example 1:
Input: 1 -> 1 -> 2 -> 3 -> 4 -> 4 -> 4 -> 5
Output: 1 -> 2 -> 3 -> 4 -> 5

Example 2:
Input: 7 -> 7 -> 8 -> 8 -> 9 -> 10 -> 10
Output: 7 -> 8 -> 9 -> 10
```

Candidate's Solution

1 #!/bin/python 2 3 import math 4 import os 5 import random 6 import re 7 import sys 8 9 class ListNode: def init (self, val=0, next=None): 10 self.val = val 11 self.next = next12 13 14 15 def remove duplicates(head: ListNode) -> ListNode:

Candidate Report Page 20 of 22

```
17
       if not head:
18
            return None
19
20
       current = head
21
       while current and current.next:
22
            if current.val == current.next.val:
23
                current.next = current.next.next
24
           else:
25
                current = current.next
26
27
       return head
28
29
   import sys
30
31 | def parse input():
       0.00
32
33
       Reads multiple lines of input, where each line represents a separate
   linked list.
       Returns a list of ListNode heads, one for each linked list.
34
35
       lines = sys.stdin.read().strip().split("\n") # Read all lines separately
36
37
       linked lists = []
38
39
       for line in lines:
40
            if not line.strip(): # Handle empty lines (edge case)
41
                linked lists.append(None)
42
                continue
43
44
            values = line.strip().split(" -> ") # Split the linked list values
           nodes = [ListNode(int(val)) for val in values]
45
46
47
           for i in range(len(nodes) - 1):
48
                nodes[i].next = nodes[i + 1] # Link nodes together
49
50
            linked lists.append(nodes[0]) # Store the head of the linked list
51
       return linked lists # Return a list of linked lists
52
53
54 def print linked list(head):
55
56
       Prints the linked list in the required format.
57
58
       values = []
59
       while head:
60
            values.append(str(head.val))
           head = head.next
61
```

Candidate Report Page 21 of 22

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Hidden	Success	0	0.026 sec	10.3 KB
Testcase 1	Easy	Hidden	Success	0	0.0269 sec	10.3 KB
Testcase 2	Easy	Hidden	Success	0	0.0269 sec	10.1 KB
Testcase 3	Easy	Hidden	Success	0	0.0258 sec	10.1 KB
Testcase 4	Easy	Hidden	Success	5	0.0263 sec	10.3 KB

No comments.

Candidate Report Page 22 of 22