

**Kibru Menore**

Other

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scored in TIP102: Unit 1 Version A (Standard) - Spring 2025 in 28 min 50 sec on 23 Feb 2025 05:21:54 PST

Candidate Information

Email	Kibrussmenore@gmail.com
Test	TIP102: Unit 1 Version A (Standard) - Spring 2025
Candidate Packet	View
Taken on	23 Feb 2025 05:21:54 PST
Time taken	28 min 50 sec/ 90 min
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Invited by	CodePath

Suspicious Activity detected

Code similarity

 Code similarity • 1 question**Skill Distribution**

Skill Distribution



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
	1	Unique Coding	4 min 49 sec	-	20/20

	2	Needle in Haystack Coding	4 min 48 sec	-	20/20
	3	Flowerbed Coding	4 min 19 sec	-	20/20 

Multiple Choice + Debugging • 20 / 20

Status	No.	Question	Time Taken	Skill	Score
	4	What is the output of the following code snippet? Multiple Choice	2 min 12 sec	-	5/5
	5	What is the output of the following code snippet? Multiple Choice	2 min 44 sec	-	5/5
	6	What is the output of the following code snippet? Multiple Choice	3 min 46 sec	-	5/5
	7	Find the bug! Coding	5 min 32 sec	-	5/5

1. Unique

 Correct

Coding

Question description

Given a string `s`, return `True` if every character in the string is unique. Return `False` if any characters in `s` are repeated.

Example 1

Input: `s = "abcdef"`

Expected Output: `True`

Example 2

Input: `s = "aabbcc"`

Output: `False`

Example 3

Example Input: `s = ""`

Expected Output: `True`

Candidate's Solution

Language used: Python 3

```
1  #!/bin/python3
2
3  import math
4  import os
5  import random
6  import re
7  import sys
8
9
10
11 def has_all_unique_characters(s):
12     hashset = set()
13     for char in s:
14         if char in hashset:
15             return False
16         hashset.add(char)
17     return True
18
19 if __name__ == "__main__":
20     # Read the entire input
21     input_data = sys.stdin.read().strip().split("\n")
22     results = []
23     for line in input_data:
24         # Handle input with quotes (e.g., "abcdef" or "")
25         s = line.strip()
```

```

26         if s == '': # Interpret "" as an actual empty string
27             s = ""
28
29         # Redirect debugging output to stderr to suppress student print
statements
30         original_stdout = sys.stdout
31         try:
32             sys.stdout = sys.stderr # Redirect stdout to stderr for
debugging prints
33             # Call the function here
34             result = has_all_unique_characters(s)
35         finally:
36             sys.stdout = original_stdout # Restore stdout
37
38         # Collect the result for this test case
39         results.append(result)
40
41     # Print all results (one per line)
42     for res in results:
43         print(res)

```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Is Unique	Easy	Hidden	Success	0	0.0264 sec	10.8 KB
Is Not Unique	Easy	Hidden	Success	0	0.0246 sec	10.8 KB
Upper/lower	Easy	Hidden	Success	0	0.0239 sec	10.8 KB
Empty String	Easy	Hidden	Success	0	0.0247 sec	10.8 KB
Single Char	Easy	Hidden	Success	0	0.0209 sec	10.8 KB

Pass/Fail Test
Case

Easy

Hidden

Success

20

0.0245
sec

10.8 KB

⚠ No comments.

2. Needle in Haystack

✓ Correct

Coding

Question description

Given two strings `needle` and `haystack`, return the index of the first occurrence of `needle` in `haystack`, or `-1` if `needle` is not part of `haystack`.

Example 1:

Input: `haystack = "sadbutsad"`, `needle = "sad"`

Output: 0

Explanation: "sad" occurs twice, starting at indices 0 and 6.

The first occurrence is at index 0, so we return 0.

Example 2:

Input: `haystack = "leetcode"`, `needle = "leeto"`

Output: -1

Explanation: "leeto" did not occur in "leetcode", so we return -1.

Example 3:

Input: `haystack = "mad"` `needle = "madden"`

Needle is longer than haystack, so we return -1.

Candidate's Solution

Language used: Python 3

```
1 #!/bin/python3
2
```

```
3 import math
4 import os
5 import random
6 import re
7 import sys
8
9
10
11 #
12 # Complete the 'find_needle' function below.
13 #
14 # The function is expected to return an INTEGER.
15 # The function accepts following parameters:
16 # 1. STRING haystack
17 # 2. STRING needle
18 #
19
20 def find_needle(haystack, needle):
21     if len(needle) > len(haystack):
22         return -1
23     for i in range(len(haystack)-len(needle)+1):
24         if haystack[i:i+len(needle)] == needle:
25             return i
26     return -1
27
28 if __name__ == "__main__":
29     # Read the entire input
30     input_data = sys.stdin.read().strip().split("\n")
31
32     results = []
33     for i in range(0, len(input_data), 2):
34         # Each test case contains two lines: haystack and needle
35         haystack = input_data[i].strip()
36         needle = input_data[i + 1].strip()
37
38         # Redirect debugging output to stderr to suppress student print
39         # statements
40         original_stdout = sys.stdout
41         try:
42             sys.stdout = sys.stderr # Redirect stdout to stderr for
43             # debugging prints
44             # Call the function here
45             result = find_needle(haystack, needle)
46         finally:
47             sys.stdout = original_stdout # Restore stdout
```

```

47      # Collect the result for this test case
48      results.append(result)
49
50      # Print all results (one per line)
51      for res in results:
52          print(res)

```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Needle in Haystack at 0	Easy	Hidden	Success	0	0.0242 sec	10.8 KB
Needle not in Haystack	Easy	Hidden	Success	0	0.0237 sec	10.8 KB
Haystack smaller than needle	Easy	Hidden	Success	0	0.0232 sec	10.8 KB
Empty haystack	Easy	Hidden	Success	0	0.0242 sec	10.6 KB
Empty Strings	Easy	Hidden	Success	0	0.0269 sec	10.8 KB
First occurence not at 0	Easy	Hidden	Success	0	0.027 sec	10.7 KB
Pass/Fail Testcases	Easy	Hidden	Success	20	0.0237 sec	10.8 KB

🚫 No comments.

3. Flowerbed

 Correct

Coding

Question description

You have a single long flowerbed in which some of the plots are planted, and some are not. However, flowers cannot be planted **directly adjacent** to another flower.

Given an integer array `flowerbed` containing 0's and 1's, where 0 means empty and 1 means not empty, and an integer `n`, return `True` if `n` new flowers can be planted in the `flowerbed` without violating the no-adjacent-flowers rule and `False` otherwise.

Example 1:

Input: `flowerbed = [1,0,0,0,1]`, `n = 1`

Output: `True`

Example 2:

Input: `flowerbed = [1,0,0,0,1]`, `n = 2`

Output: `False`

Hint: When deciding where to plant a new flower, focus on each plot in the `flowerbed` and check its neighboring plots. You only need to consider the plot directly before and directly after the current plot to determine if a flower can be planted there. Remember that the flowerbed is linear, so you don't need to worry about wrapping around.

Candidate's Solution

Language used: Python 3

```
1 #!/bin/python3
2
3 import math
4 import os
5 import random
6 import re
7 import sys
8
9
10
```

```
11 #
12 # Complete the 'can_place_flowers' function below.
13 #
14 # The function is expected to return a BOOLEAN.
15 # The function accepts following parameters:
16 # 1. INTEGER_ARRAY flowerbed
17 # 2. INTEGER n
18 #
19
20 def can_place_flowers(flowerbed, n):
21     count = 0
22     length = len(flowerbed)
23
24     for i in range(length):
25         if flowerbed[i]==0:
26             empty_left = (i==0 or flowerbed[i-1]==0)
27             empty_right = (i== length-1 or flowerbed[i+1]==0)
28
29             if empty_left and empty_right:
30                 flowerbed[i]=1
31                 count+=1
32                 if count>=n:
33                     return True
34             i +=1
35     return count>=n
36
37 if __name__ == "__main__":
38     input_data = sys.stdin.read().strip().split("\n")
39
40     results = []
41     for i in range(0, len(input_data), 2):
42         flowerbed_line = input_data[i].strip()
43         n = int(input_data[i + 1].strip())
44
45         if flowerbed_line == "[]":
46             flowerbed = []
47         else:
48             flowerbed = list(map(int, flowerbed_line.strip("[]").split(",")))
49
50         # Redirect debugging output to stderr
51         original_stdout = sys.stdout
52         try:
53             sys.stdout = sys.stderr
54             result = can_place_flowers(flowerbed, n)
55         finally:
56             sys.stdout = original_stdout
```

```
57
58     results.append(result)
59
60     for res in results:
61         print(res)
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Can Place	Easy	Hidden	Success	0	0.0217 sec	10.9 KB
Cannot Place	Easy	Hidden	Success	0	0.0243 sec	10.9 KB
Nothing To Add	Easy	Hidden	Success	0	0.0294 sec	10.8 KB
Can Place Pt2	Easy	Hidden	Success	0	0.0235 sec	10.9 KB
Empty Flowerbed w/ no Addition	Easy	Hidden	Success	0	0.0261 sec	10.7 KB
Full Flowerbed	Easy	Hidden	Success	0	0.0237 sec	10.9 KB
All Empty	Easy	Hidden	Success	0	0.0257 sec	10.9 KB
Pass/Fail Testcases	Easy	Hidden	Success	20	0.0213 sec	10.9 KB

⚠ No comments.

4. What is the output of the following code snippet?

✓ Correct

Multiple Choice

Question description

```
name = "codepath"  
name[0] = "C"  
print(name)
```

Candidate's Solution

Options: (Expected answer indicated with a tick)

☐ Codepath

☐ Ccodepath

☐ C

☒ d. Throws an error because strings are immutable and characters cannot be changed once the string is created.

✓

⚠ No comments.

5. What is the output of the following code snippet?

✓ Correct

Multiple Choice

Question description

```
def mystery_function(s):  
    count = 0  
    for i in range(1, len(s)):  
        if s[i] == s[i - 1]:  
            count += 1  
    return count  
  
result = mystery_function("AABBAB")  
print(result)
```

Candidate's Solution

Options: (Expected answer indicated with a tick)

☐ 1

☒ 2

✓

☐ 3

☐ 4 No comments.

6. What is the output of the following code snippet?

 Correct

Multiple Choice

Question description

```
def mystery_function(lst, threshold):  
    total = 0  
    i = 0  
    while i < len(lst) and total + lst[i] <= threshold:  
        total += lst[i]  
        i += 1  
    return total  
  
result = mystery_function([1, 2, 3, 4, 5], 7)  
print(result)
```

Candidate's Solution

Options: (Expected answer indicated with a tick)

☐ 3☒ 6

☐ 7☐ 10 No comments.

7. Find the bug!

 Correct

Coding

Question description

The provided code incorrectly implements the function `reverse_lst` which should accept a list `lst` and return the original list with the elements in reverse order.

```
def reverse_lst(lst):
    left = 0
    right = len(lst) - 1

    while left < right:
        lst[left] = lst[right]
        lst[right] = lst[left]
        left -= 1
        right += 1

    return lst

lst = [1, 2, 3, 4, 5]
print(reverse_lst(lst))

lst = [10, 20, 30, 40]
print(reverse_lst(lst))
```

Identify the bug(s) within the given implementation and select the corrected code that will successfully reverse the list.

Candidate's Solution

Language used: Python 2

```
1  #!/bin/python3
2
3  import math
4  import os
5  import random
6  import re
7  import sys
8  import ast
9
10
11 #
12 # Complete the 'reverse_lst' function below.
13 #
14 # The function is expected to return an INTEGER_ARRAY.
15 # The function accepts INTEGER_ARRAY lst as parameter.
16 #
17
18 def reverse_lst(lst):
19     left = 0
20     right = len(lst) - 1
21
22     while left < right:
23         temp = lst[left]
24         lst[left] = lst[right]
25         lst[right] = temp
26         left += 1
27         right -= 1
28
29     return lst
30
31 if __name__ == '__main__':
32     input_str = sys.stdin.read().strip()
33     # Convert the input string to a list of integers
34     input_list = ast.literal_eval(input_str)
35     # Reverse the list
36     result = reverse_lst(input_list)
37     # Print the reversed list
38     print(result)
```


TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Pass/Fail Case	Easy	Hidden	Success	5	0.0495 sec	10.1 KB

 No comments.