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Candidate Information

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Test TIP102: Unit 2 Version A (Standard) - Summer 2025

Candidate Packet View ℃

Taken on 16 Jun 2025 19:31:24 PDT

Time taken 33 min 37 sec/ 90 min

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Invited by CodePath

Suspicious Activity detected

Code similarity

Code similarity • 1 question

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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 • 65 / 65

Status	No.	Question	Time Taken	Skill	Score	Code Quality

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8	1	First Repeating Element Coding	16 min 14 sec	20/20 🏳 -
8	2	Intersection of Two Arrays Coding	2 min 58 - sec	20/20 -
8	3	Roman To Integers Coding	6 min 11 - sec	20/20 -
8	4	Debugging Coding	4 min 21 - sec	5/5 -

Multiple Choice + Debugging • 15 / 15

Status	No.	Question	Time Taken	Skill	Score	Code Quality
8	5	What will be the output of the following code snippet? Multiple Choice	1 min 36 sec	-	5/5	-
8	6	Bart Simpson in Springfield Multiple Choice	52 sec	-	5/5	-
8	7	What does this mystery function do? Multiple Choice	46 sec	-	5/5	-

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1. First Repeating Element

Correct

Coding

Question description

Given an integer array, return the minimum index of a repeating element by doing a single traversal of the array. If there are no repeating elements, return None.

```
Example 1:
Input: [1, 2, 3, 4, 5]
Output: None

Example 2:
Input: [1, 2, 3, 1]
Output: 0
```

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
  import ast
9
10
11 #
12 # Complete the 'find min index of repeating' function below.
13
14 # The function is expected to return an INTEGER.
   # The function accepts INTEGER ARRAY arr as parameter.
16 #
17
18 def find min index of repeating(arr):
19
       if not arr:
20
           return None
21
       seen = \{\}
```

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```
min index = float('inf')
22
23
24
       for i, val in enumerate(arr):
25
            if val in seen:
26
                min_index = min(min_index, seen[val])
27
            else:
28
                seen[val] = i
29
        return min_index if min_index!=float('inf') else None
30
31
   if __name__ == ' main ':
32
       outfile = open(os.environ['OUTPUT PATH'], 'w')
33
34
       input data = sys.stdin.read().strip().splitlines()
35
36
       for line in input data:
37
            try:
38
                arr = ast.literal eval(line.strip())
                result = find_min_index_of_repeating(arr)
39
                outfile.write(str(result) + '\n')
40
                # outfile.write(str(result) + '\n')
41
42
            except (ValueError, SyntaxError):
43
                print("Invalid input")
44
       outfile.close()
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Hidden	Success	0	0.0279 sec	11 KB
Testcase 1	Easy	Hidden	Success	0	0.0284 sec	10.8 KB
Testcase 2	Easy	Hidden	Success	0	0.027 sec	10.9 KB
Testcase 3	Easy	Hidden	Success	0	0.0321 sec	10.9 KB

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Testcase 4	Easy	Hidden	Success	0	0.0282 sec	10.9 KB
Testcase 5	Easy	Hidden	Success	0	0.0272 sec	11 KB
Testcase 6	Easy	Hidden	Success	0	0.0276 sec	10.9 KB
Testcase 7	Easy	Hidden	Success	0	0.0278 sec	10.9 KB
Testcase 8	Easy	Hidden	Success	0	0.0269 sec	10.9 KB
Testcase 9	Easy	Hidden	Success	0	0.0272 sec	11 KB
Testcase 10	Hard	Hidden	Success	0	0.028 sec	11 KB
Pass/Fail Case	Easy	Hidden	Success	20	0.0273 sec	10.9 KB

. No comments.

2. Intersection of Two Arrays

⊘ Correct

Coding

Question description

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Given two integer arrays nums1 and nums2, return an array of their intersection. Each element in the result must be unique. The array must be returned in **ascending** order.

```
Example 1:
Input: nums1 = [1,2,2,1], nums2 = [2,2]
Output: [2]

Example 2:
Input: nums1 = [4,9,5], nums2 = [9,4,9,8,4]
Output: [4,9]
```

Candidate's Solution

Language used: Python 3

```
1 #!/bin/python
2
3 import math
4 import os
5 import random
6 import re
7 import sys
8 import ast
9 import ison
10
11
12 #
13 # Complete the 'intersection' function below.
14 #
15 # The function is expected to return an INTEGER ARRAY.
16 # The function accepts following parameters:
17 #
      1. INTEGER ARRAY nums1
18 #
      2. INTEGER ARRAY nums2
19 #
20
21 def intersection(nums1, nums2):
       set1 = set(nums1)
22
23
       set2 = set(nums2)
24
25
       set intersection = set1 & set2
26
       result = sorted(list(set intersection))
27
       return result
28
```

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```
if __name__ == '__main__':
29
30
       outfile = open(os.environ['OUTPUT_PATH'], 'w')
       input_lines = sys.stdin.read().strip().split('\n')
31
32
        results = []
33
       for line in input_lines:
34
            input list = ast.literal eval(line)
35
36
            nums1 = input_list[0]
           nums2 = input_list[1]
37
38
            result = intersection(nums1, nums2)
39
            results.append(result)
40
41
       for result in results:
42
43
            outfile.write(str(result) + '\n')
44
       outfile.close()
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Hidden	Success	0	0.0292 sec	11.1 KB
Testcase 1	Easy	Hidden	Success	0	0.0293 sec	11 KB
Both arrays empty	Easy	Hidden	Success	0	0.0293 sec	11 KB
One array empty	Easy	Hidden	Success	0	0.0299 sec	10.9 KB
No intersection	Easy	Hidden	Success	0	0.0295 sec	11 KB
Same arrays	Easy	Hidden	Success	0	0.03 sec	10.9 KB

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Arrays with duplicates	Easy	Hidden	Success	0	0.0319 sec	11 KB
Single element arrays	Easy	Hidden	Success	0	0.028 sec	11 KB
Intersection with different element orders	Easy	Hidden	Success	0	0.0305 sec	10.9 KB
Intersection with different element orders (anotheracceptable answer)	Easy	Hidden	Success	0	0.0305 sec	10.9 KB
Pass/Fail Case	Easy	Hidden	Success	20	0.0284 sec	11 KB

No comments.

3. Roman To Integers

⊘ Correct

Coding

Question description

Roman numerals are represented by seven different symbols: I, V, X, L, C, D and M.

Symbol Value

I 1
V 5
X 10

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Language used: Python 3

```
L 50
C 100
D 500
M 1000
```

For example, 2 is written as II in Roman numeral, just two ones added together. 12 is written as XII, which is simply X + II. The number 27 is written as XXVII, which is XX + V + II.

Roman numerals are usually written largest to smallest from left to right. However, there is a special rule: A smaller number may appear before a number to **subtract** from it, in specific circumstances. For example, instead of IIII, the number four is written as IV, or "five minus one". Here's a full list of possible subtractions:

- I can be placed before V (5) and X (10) to make 4 and 9.
- X can be placed before L (50) and C (100) to make 40 and 90.
- C can be placed before D (500) and M (1000) to make 400 and 900.

Given a roman numeral, convert it to an integer.

```
Example 1:
Input: s = "III"
Output: 3
Explanation: III = 3.
```

Example 2: Input: s = "LVIII" Output: 58

Explanation: L = 50, V = 5, III = 3.

Example 3:

Input: s = "MCMXCIV"

Output: 1994

Explanation: M = 1000, CM = 900, XC = 90 and IV = 4.

Candidate's Solution

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

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3 import math

```
4 import os
 5 import random
 6 import re
 7 import sys
 8
9
10
11 #
12 # Complete the 'roman_to_integer' function below.
13 #
14 # The function is expected to return an INTEGER.
15 # The function accepts STRING s as parameter.
16 #
17
18 def roman_to_integer(s):
19
        roman numbers = {
20
            'I':1,
21
            'V':5,
22
            'X':10.
23
            'L':50,
24
            'C':100.
25
            'D':500,
            'M':1000
26
27
        }
28
       total = 0
29
        i = 0
30
       while(i<len(s)):</pre>
31
            if i == len(s) - 1 or roman numbers[s[i]] >= roman numbers[s[i+1]]:
32
                total += roman numbers[s[i]]
33
                i +=1
34
            else:
35
                total += roman numbers[s[i+1]] - roman numbers[s[i]]
                i +=2
36
37
        return total
38
   if name == " main ":
39
40
       # Read all input
41
        input data = sys.stdin.read().strip().split("\n")
42
        results = []
43
44
        for line in input data:
45
            if not line.strip(): # If the input line is empty
                results.append(0) # Return 0 for empty strings
46
47
                continue
48
49
            try:
```

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```
50
               # Process Roman numeral string
51
                roman_string = line.strip()
52
53
               # Redirect debugging output to stderr
54
                original_stdout = sys.stdout
55
                try:
56
                    sys.stdout = sys.stderr # Redirect stdout to stderr for
   debugging prints
57
                    result = roman_to_integer(roman_string)
                finally:
58
59
                    sys.stdout = original_stdout # Restore stdout
60
               # Append the result
61
                results.append(result)
62
63
           except KeyError:
               # Handle invalid Roman numeral input
64
65
                results.append("Invalid Roman numeral")
66
       # Print all results (one per line)
67
68
       for res in results:
69
           print(res)
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Hidden	Success	0	0.0218 sec	10.3 KB
Testcase 1	Easy	Hidden	Success	0	0.0236 sec	10.3 KB
Testcase 3	Easy	Hidden	Success	0	0.0238 sec	10.3 KB
Testcase 4	Easy	Hidden	Success	0	0.0245 sec	10.3 KB
Pass/Fail Testcases	Easy	Hidden	Success	20	0.0244 sec	10.3 KB

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No comments.

4. Debugging

Coding

Question description

The provided incorrectly implements the function <code>get_top_player</code>. When correctly implemented, <code>get_top_player</code> should accept a dictionary which maps player names to their score and return the name of the highest scoring player. You are guaranteed all scores will be unique.

Identify any bug(s) within the given implementation and correct the code so that it successfully passes the provided test cases.

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
   import ast
9
10
11
12 #
13
   # Complete the 'get top player' function below.
14
15 # The function is expected to return a STRING.
16 #
17
18 def get_top_player(dictionary):
19
     high_score = 0
     top player = ""
20
21
22
     for name, score in dictionary.items():
```

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```
23
       if score > high_score:
24
          high_score = score
25
          top_player = name
26
     return top_player
27
   if __name__ == '__main__':
28
29
        input data = sys.stdin.read().strip()
       dictionary = ast.literal eval(input data)
30
31
        result = get_top_player(dictionary)
32
       print(result)
33
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Pass/Fail Case	Easy	Hidden	Success	5	0.0296 sec	10.6 KB

No comments.

5. What will be the output of the following code snippet?

⊘ Correct

Multiple Choice

Question description

```
word = "encourage"
char_count = {}
for char in word:
   if char not in char_count:
      char_count[char] = 1
   else:
      char_count[char] += 1
   char_count['e'] += 2

print(char_count['e'])
```

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Candidate's Solution

Options: (Expected answer indicated with a tick)	
2	
3	
4	8
Causes a KeyError because the code tries to assign a value to a key in the dictionary that does not exist	
① No comments.	
6. Bart Simpson in Springfield	C orrect
Multiple Choice	
Question description	
Given the dictionary bart below, which of the following options would print "Springfield" to the co	onsole?
bart = {"first name": "Bart", "last name": "Simpson", "age": 10, "hometown": "Springfield"}	

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Candidate's Solution

Options: (Expected answer indicated with a tick)	
print(bart["hometown"]) notionvc: 79a56a09-b46c-46da-87f1-07cf58ff6c45	
print(bart.get(”hometown”)) notionvc: b28cd1c8-ecc1-43a1-9269-175efacbb590	
print(bart.pop(”Springfield”)) notionvc: 3165c580-f5da-48e3-adea-0e495d239be7	
South A and B	\otimes
① No comments.	

7. What does this mystery function do?

⊘ Correct

Multiple Choice

Question description

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```
def mystery_function(old_dictionary):
    new_dictionary = {}

for key, value in old_dictionary.items():
    new_dictionary[value] = key

return new_dictionary

# Example usage
old_dictionary = {'a': 1, 'b': 2, 'c': 3}
new_dictionary = mystery_function(old_dictionary)
print(new_dictionary)
```

Candidate's Solution

Options: (Expected answer indicated with a tick)

It swaps the keys and values from the original dictionary. Example: <code>{'a': 1, 'b': 2, 'c': 3}</code> becomes <code>{1: 'a', 2: 'b', 3: 'c'}</code>. <!-- notionvc:</p> cbf80623-1bd0-4a68-8896-cc2927697ef3 -->



It doubles the values in the dictionary and keeps the keys the same.
Example: <code>{'a': 1, 'b': 2, 'c': 3}</code> becomes
<code>{'a': 2, 'b': 4, 'c': 6}</code>.<!--</p>
notionvc: 793b7521-2eda-46f7-afb8-9adab447b127 -->

It concatenates the keys and values into a single string for each key-value pair.
 Example: <code>{'a': 1, 'b': 2, 'c': 3}</code>
becomes <code>{'a1': 'a1', 'b2': 'b2',

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'c3': 'c3'}</code>.<!-- notionvc: 588aa935-0cdb-4d53-a15d-21889e094e22 -->

It sorts the dictionary by keys in ascending order. Example: <code> {'b': 2, 'a': 1, 'c': 3}</code> becomes <code> {'a': 1, 'b': 2, 'c': 3}</code>. <!-- notionvc: f8416ee2-de4a-403e-be2a-bdd5280d70aa -->

No comments.

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