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scored in TIP102: Unit 2 Version A (Standard) - Spring 2025 in 21 min 41 sec on 26 Feb 2025 16:15:04 PST

Candidate Information

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

Candidate Packet View ♥

Taken on 26 Feb 2025 16:15:04 PST

Time taken 21 min 41 sec/ 90 min

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Invited by CodePath

Suspicious Activity detected

Code similarity

Code similarity • 1 question

Skill Distribution

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JINII PIJU INGUJI



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
8	1	First Repeating Element Coding	7 min	-	20/20

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8	2	Intersection of Two Arrays Coding	3 min 43 - sec	20/20
8	3	Roman To Integers Coding	4 min 12 - sec	20/20 🏳
⊗	4	Debugging Coding	2 min 57 - sec	5/5

Multiple Choice + Debugging • 10 / 15

Status	No.	Question	Time Taken	Skill	Score
8	5	What will be the output of the following code snippet? Multiple Choice	1 min 36 sec	-	5/5
⊗	6	Bart Simpson in Springfield Multiple Choice	1 min 26 sec	-	0/5
Ø	7	What does this mystery function do? Multiple Choice	35 sec	-	5/5

1. First Repeating Element

⊘ Correct

Coding

Question description

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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 #
13 # Complete the 'find min index of repeating' function below.
14 #
15 # The function is expected to return an INTEGER.
16 # The function accepts INTEGER ARRAY arr as parameter.
17 #
18
19
   def find min index of repeating(arr):
20
       # Write your code here
21
       seen = set()
22
       for i,element in enumerate(arr):
           if element in seen:
23
24
                return arr.index(element)
25
            seen.add(element)
       return None
26
27
28 if __name__ == '__main__':
```

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```
outfile = open(os.environ['OUTPUT PATH'], 'w')
29
       input data = sys.stdin.read().strip().splitlines()
30
31
       for line in input data:
32
33
           try:
34
               arr = ast.literal eval(line.strip())
                result = find_min_index_of_repeating(arr)
35
               outfile.write(str(result) + '\n')
36
               # outfile.write(str(result) + '\n')
37
           except (ValueError, SyntaxError):
38
                print("Invalid input")
39
       outfile.close()
40
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Hidden	Success	0	0.0303 sec	11.4 KB
Testcase 1	Easy	Hidden	Success	0	0.0282 sec	11.3 KB
Testcase 2	Easy	Hidden	Success	0	0.0289 sec	11.3 KB
Testcase 3	Easy	Hidden	Success	0	0.0318 sec	11.3 KB
Testcase 4	Easy	Hidden	Success	0	0.0293 sec	11.3 KB
Testcase 5	Easy	Hidden	Success	0	0.0282 sec	11.2 KB
Testcase 6	Easy	Hidden	Success	0	0.0306 sec	11.3 KB

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Testcase 7	Easy	Hidden	Success	0	0.0332 sec	11.2 KB
Testcase 8	Easy	Hidden	Success	0	0.0298 sec	11.2 KB
Testcase 9	Easy	Hidden	Success	0	0.0295 sec	11.3 KB
Testcase 10	Hard	Hidden	Success	0	0.0281 sec	11.2 KB
Pass/Fail Case	Easy	Hidden	Success	20	0.0315 sec	11.3 KB

No comments.

2. Intersection of Two Arrays

Coding

Question description

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:

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```
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 json
10
11 #
12 # Complete the 'intersection' function below.
13 #
14 # The function is expected to return an INTEGER ARRAY.
15 # The function accepts following parameters:
16 # 1. INTEGER_ARRAY nums1
17 #
      2. INTEGER ARRAY nums2
18 #
19
20 def intersection(nums1, nums2):
       # Write your code here
21
22
       ans = set()
23
       for num1 in nums1:
           if num1 in nums2:
24
25
               ans.add(num1)
26
       ans = sorted(list(ans))
27
       return ans
28
29 if name == ' main ':
       outfile = open(os.environ['OUTPUT PATH'], 'w')
30
31
       input lines = sys.stdin.read().strip().split('\n')
32
       results = []
33
34
       for line in input_lines:
35
           input list = ast.literal eval(line)
           nums1 = input list[0]
36
37
           nums2 = input list[1]
38
```

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```
result = intersection(nums1, nums2)
results.append(result)

for result in results:
    outfile.write(str(result) + '\n')
outfile.close()
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Hidden	Success	0	0.0345 sec	11.4 KB
Testcase 1	Easy	Hidden	Success	0	0.0377 sec	11.5 KB
Both arrays empty	Easy	Hidden	Success	0	0.0344 sec	11.4 KB
One array empty	Easy	Hidden	Success	0	0.043 sec	11.5 KB
No intersection	Easy	Hidden	Success	0	0.0324 sec	11.5 KB
Same arrays	Easy	Hidden	Success	0	0.0311 sec	11.4 KB
Arrays with duplicates	Easy	Hidden	Success	0	0.0302 sec	11.4 KB
Single element arrays	Easy	Hidden	Success	0	0.0301 sec	11.4 KB

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Intersection with different element orders	Easy	Hidden	Success	0	0.038 sec	11.5 KB
Intersection with different element orders (anotheracceptable answer)	Easy	Hidden	Success	0	0.0373 sec	11.6 KB
Pass/Fail Case	Easy	Hidden	Success	20	0.0347 sec	11.6 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.

1		
5		
10		
50		
100		
500		
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.

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Language used: Python 3

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
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.
```

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```
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
       # Write your code here
20
        roman = \{'I':1, 'V':5, 'X':10, 'L': 50, 'C': 100, 'D':500, 'M':1000\}
21
        total =0
22
       prev=0
23
24
       for char in reversed(s):
25
            curr = roman[char]
26
            if curr< prev:</pre>
27
                total -= curr
28
            else:
29
                total += curr
30
            prev=curr
31
32
        return total
33
34 if name == " main ":
35
       # Read all input
36
        input data = sys.stdin.read().strip().split("\n")
        results = []
37
38
39
        for line in input data:
40
            if not line.strip(): # If the input line is empty
41
                results.append(0) # Return 0 for empty strings
42
                continue
43
44
            try:
45
                # Process Roman numeral string
                roman string = line.strip()
46
47
48
                # Redirect debugging output to stderr
49
                original stdout = sys.stdout
50
                try:
                    sys.stdout = sys.stderr # Redirect stdout to stderr for
51
   debugging prints
52
                    result = roman to integer(roman string)
                finally:
53
54
                    sys.stdout = original stdout # Restore stdout
55
56
                # Append the result
57
                results.append(result)
```

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TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Hidden	Success	0	0.0234 sec	10.8 KB
Testcase 1	Easy	Hidden	Success	0	0.0258 sec	10.8 KB
Testcase 3	Easy	Hidden	Success	0	0.0242 sec	10.8 KB
Testcase 4	Easy	Hidden	Success	0	0.0313 sec	10.8 KB
Pass/Fail Testcases	Easy	Hidden	Success	20	0.0235 sec	10.8 KB

! No comments.

4. Debugging

Coding

Question description

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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
20
     top player = ""
21
22
     for name, score in dictionary.items():
23
       if score >= high score:
24
         high score = score
25
       # print(high score)
26
         top player = name
27
          print(top player)
28
29
     return top_player
30 if __name__ == '__main__':
31
       input data = sys.stdin.read().strip()
32
       dictionary = ast.literal_eval(input_data)
33
        result = get top player(dictionary)
34
35
       print(result)
```

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TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Pass/Fail Case	Easy	Hidden	Success	5	0.0341 sec	11.3 KB

No comments.

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

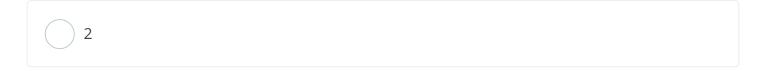
Multiple Choice

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
```

Candidate's Solution

Options: (Expected answer indicated with a tick)



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3	
4	⊗
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) Incorrect
Multiple Choice	
Question description	
Given the dictionary bart below, which of the following options would print "Springfield" to the	console?
bart = {"first name": "Bart", "last name": "Simpson", "age": 10, "hometown": "Springfield"}	
Candidate's Solution	

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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	
Both A and B	⊗
① No comments.	
7. What does this mystery function do? Multiple Choice Question description	⊘ Correct
<pre>def mystery_function(old_dictionary): new_dictionary = {} for key, value in old_dictionary.items(): new_dictionary[value] = key</pre>	

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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 -->

 \odot

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>. <!-- 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', 'c3': 'c3'}</code>.
'c3': 'c3'}</code>.

<!-- notionvc: 588aa935-0cdb-4d53-a15d-21889e094e22 -->

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

No comments.

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