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ChatGPT

Online Python Compiler (Inter...

sakthiig/Lab-Test-DAA-

programiz.com/python-programming/online-compiler/

Programiz

Python Online Compiler

Born between 1956 to 1996? You can...

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main.py

Save

Run

Output

Clear

```
13
14 # Initialize the number of operations to infinity
15 ops = float('inf')
16
17 # Option 1: Keep arr1[index] if it is greater than prev
18 if arr1[index] > prev:
19     ops = dfs(index + 1, arr1[index])
20
21 # Option 2: Replace arr1[index] with the smallest number in arr2 that
22 # is greater than prev
23 pos = bisect_right(arr2, prev)
24 if pos < len(arr2):
25     ops = min(ops, 1 + dfs(index + 1, arr2[pos]))
26
27 return ops
28
29 # Start the DFS from the first index with the previous element as -inf
30 result = dfs(0, float('-inf'))
31
32 return result if result < float('inf') else -1
33
34 # Example usage
35 arr1 = [1, 5, 3, 6, 7]
36 arr2 = [1, 3, 2, 4]
37 print(makeArrayIncreasing(arr1, arr2)) # Output: 1
```

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=== Code Execution Successful ===

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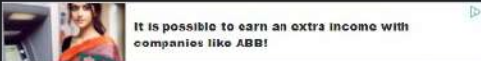
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Python Online Compiler



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Run

```
16 # i is too big, must decrease it
17 lmax = l - 1
18 else:
19     # i is perfect
20     if i == 0: max_of_left = nums2[j - 1]
21     elif j == 0: max_of_left = nums1[i - 1]
22     else: max_of_left = max(nums1[i - 1], nums2[j - 1])
23
24     if (m + n) % 2 == 1:
25         return max_of_left
26
27     if i == m: min_of_right = nums2[j]
28     elif j == n: min_of_right = nums1[i]
29     else: min_of_right = min(nums1[i], nums2[j])
30
31     return (max_of_left + min_of_right) / 2.0
32
33 # Example usage
34 nums1 = [1, 3]
35 nums2 = [2]
36 print(findMedianSortedArrays(nums1, nums2)) # Output: 2.0
37
38 nums1 = [1, 2]
39 nums2 = [3, 4]
40 print(findMedianSortedArrays(nums1, nums2)) # Output: 2.5
41
```

Output

Clear

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2.5  
=== Code Execution Successful ===

JS

php

Search

ENG IN

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Python Online Compiler

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3<sup>rd</sup> PRIZE

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main.py

Save

Run

Output

Clear

```
1 def repeatedStringMatch(a, b):
2     # Calculate the minimum number of times a needs to be repeated
3     repeats = -(-len(b) // len(a)) # Equivalent to math.ceil(len(b) / len(a))
4
5     # Check if b is a substring of the repeated a
6     if b in a * repeats:
7         return repeats
8     # Check one more repeat in case b starts at the end of a repeat
9     if b in a * (repeats + 1):
10         return repeats + 1
11
12     return -1
13
14 # Example usage
15 a = "abcd"
16 b = "cdababcdab"
17 print(repeatedStringMatch(a, b)) # Output: 3
18
```

```
3
=== Code Execution Successful ===
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main.py
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if total == target:
    result.append([nums[i], nums[j], nums[left], nums[right]])
    # Move the left pointer to the right, skipping over
    # duplicates
    while left < right and nums[left] == nums[left + 1]:
        left += 1
    left += 1
    # Move the right pointer to the left, skipping over
    # duplicates
    while left < right and nums[right] == nums[right - 1]:
        right -= 1
    right -= 1
    elif total < target:
        left += 1
    else:
        right -= 1
return result
# Example usage
nums1 = [1, 0, -1, 0, -2, 2]
target1 = 0
print(fourSum(nums1, target1)) # Output: [[-2, -1, 1, 2], [-2, 0, 0, 2], [-1,
0, 0, 1]]
nums2 = [2, 2, 2, 2, 2]
target2 = 8
```

Output

```
[[[-2, -1, 1, 2], [-2, 0, 0, 2], [-1, 0, 0, 1]]
[[2, 2, 2, 2]]
```

=== Code Execution Successful ===

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4-seater mode







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main.py



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Run

```
37 current = dummy
38 for num in arr:
39     current.next = ListNode(num)
40     current = current.next
41 return dummy.next
42
43 # Helper function to convert a linked list to a list
44 def linked_list_to_list(node):
45     result = []
46     while node:
47         result.append(node.val)
48         node = node.next
49     return result
50
51 # Example usage
52 lists = [
53     list_to_linked_list([1, 4, 5]),
54     list_to_linked_list([1, 3, 4]),
55     list_to_linked_list([2, 6])
56 ]
57
58 merged_head = mergeKLists(lists)
59 merged_list = linked_list_to_list(merged_head)
60
61 print(merged_list) # Output: [1, 1, 2, 3, 4, 4, 5, 6]
62
```

Output

Clear


[1, 1, 2, 3, 4, 4, 5, 6]

=== Code Execution Successful ===

JS

php

Q Search



ENG IN 09:01 19-06-2024