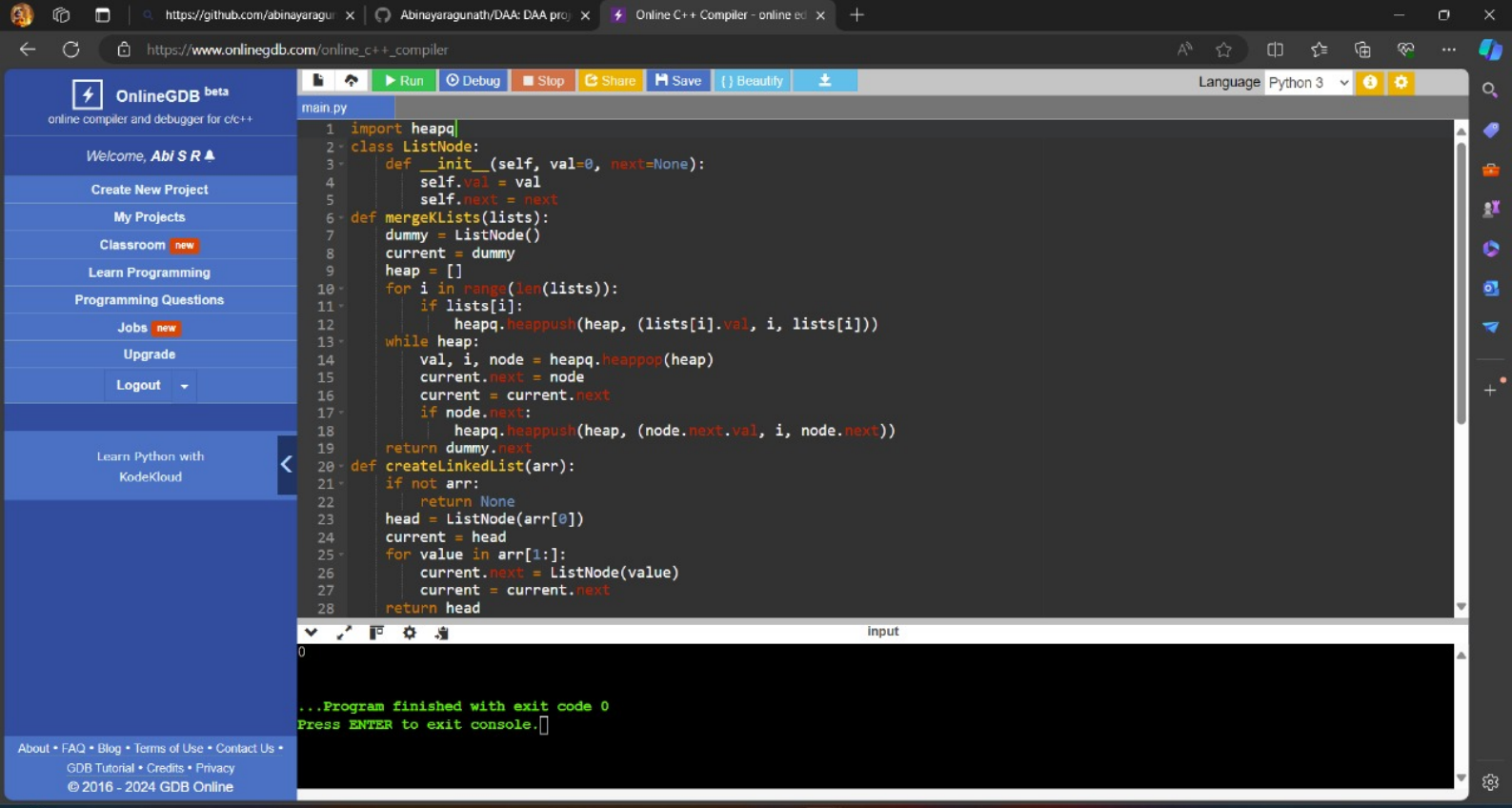
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Language Python 3
main.py
import heapq
class ListNode:
def __init__(self, val=0, next=None):
self.val = val
self.next = next
def mergeKLists(lists):
dummy = ListNode()
current = dummy
heap = []
for i in range(len(lists)):
if lists[i]:
heapq.heappush(heap, (lists[i].val, i, lists[i]))
while heap:
val, i, node = heapq.heappop(heap)
current.next = node
current = current.next
if node.next:
heapq.heappush(heap, (node.next.val, i, node.next))
return dummy.next
def createLinkedList(arr):
if not arr:
return None
head = ListNode(arr[0])
current = head
for value in arr[1:]:
current.next = ListNode(value)
current = current.next
return head
input
0
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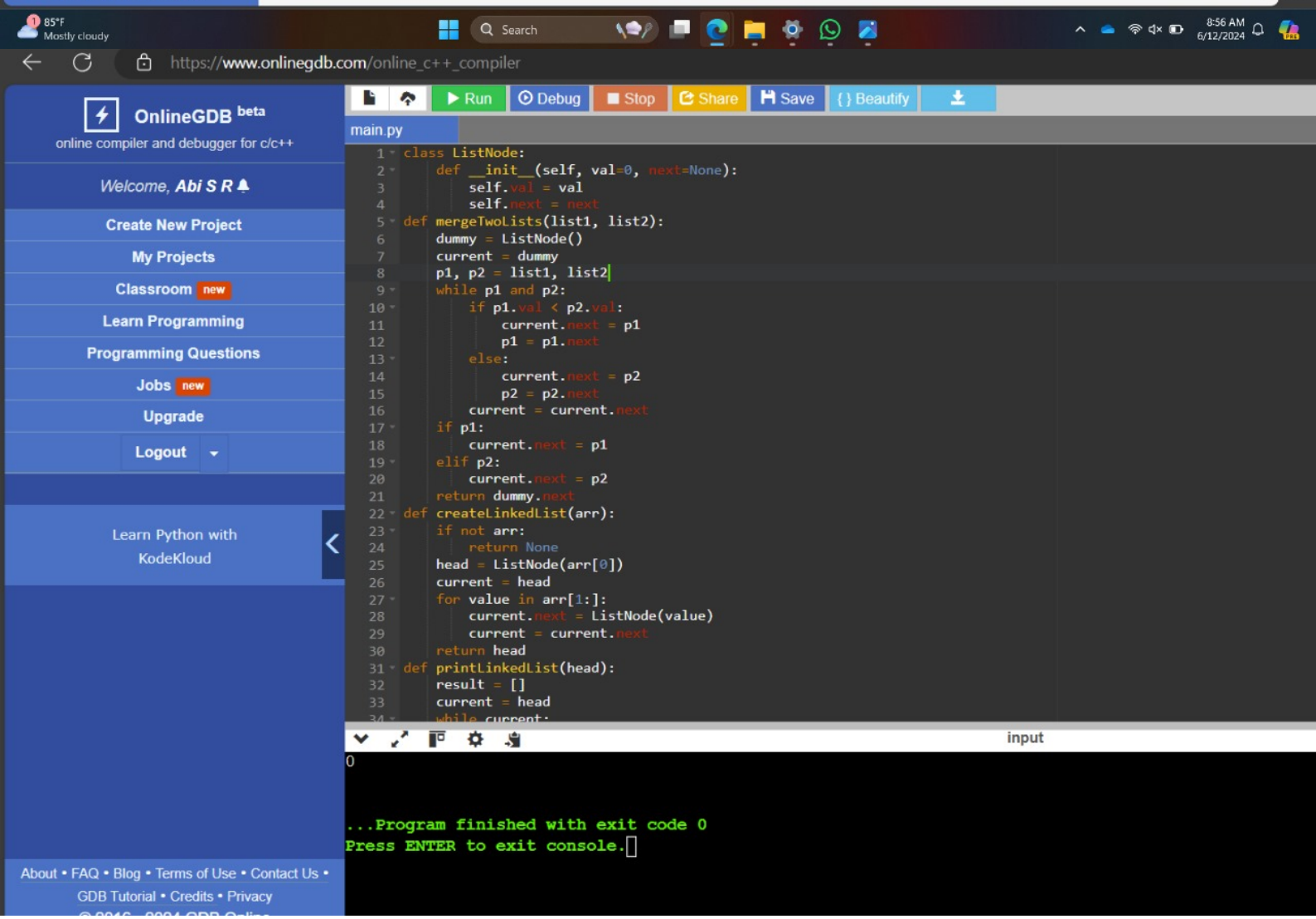
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main.py
class ListNode:
def __init__(self, val=0, next=None):
self.val = val
self.next = next
def mergeTwoLists(list1, list2):
dummy = ListNode()
current = dummy
p1, p2 = list1, list2
while p1 and p2:
if p1.val < p2.val:
current.next = p1
p1 = p1.next
else:
current.next = p2
p2 = p2.next
current = current.next
if p1:
current.next = p1
elif p2:
current.next = p2
return dummy.next
def createLinkedList(arr):
if not arr:
return None
head = ListNode(arr[0])
current = head
for value in arr[1:]:
current.next = ListNode(value)
current = current.next
return head
def printLinkedList(head):
result = []
current = head
input
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main.py

```python
def remove_duplicates(nums):
    if not nums:
        return 0
    k = 0
    for i in range(1, len(nums)):
        if nums[k] != nums[i]:
            k += 1
            nums[k] = nums[i]

    return k + 1
nums = [1, 1, 2, 2, 3, 4, 4, 5]
new_length = remove_duplicates(nums)
print(f"The array after removing duplicates: {nums[:new_length]}")
print(f"New length of the array: {new_length}")
```

input

```
The array after removing duplicates: [1, 2, 3, 4, 5]
New length of the array: 5


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```

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main.py

```python
class Solution:
    def search(self, nums, target):
        left, right = 0, len(nums) - 1

        while left <= right:
            mid = left + (right - left) // 2

            if nums[mid] == target:
                return mid

            if nums[left] <= nums[mid]:
                if nums[left] <= target < nums[mid]:
                    right = mid - 1
                else:
                    left = mid + 1
            else:
                if nums[mid] < target <= nums[right]:
                    left = mid + 1
                else:
                    right = mid - 1

        return -1
nums = [4, 5, 6, 7, 0, 1, 2]
target = 0
solution = Solution()
print(solution.search(nums, target))
```

input

```
The array after removing duplicates: [1, 2, 3, 4, 5]
New length of the array: 5


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```

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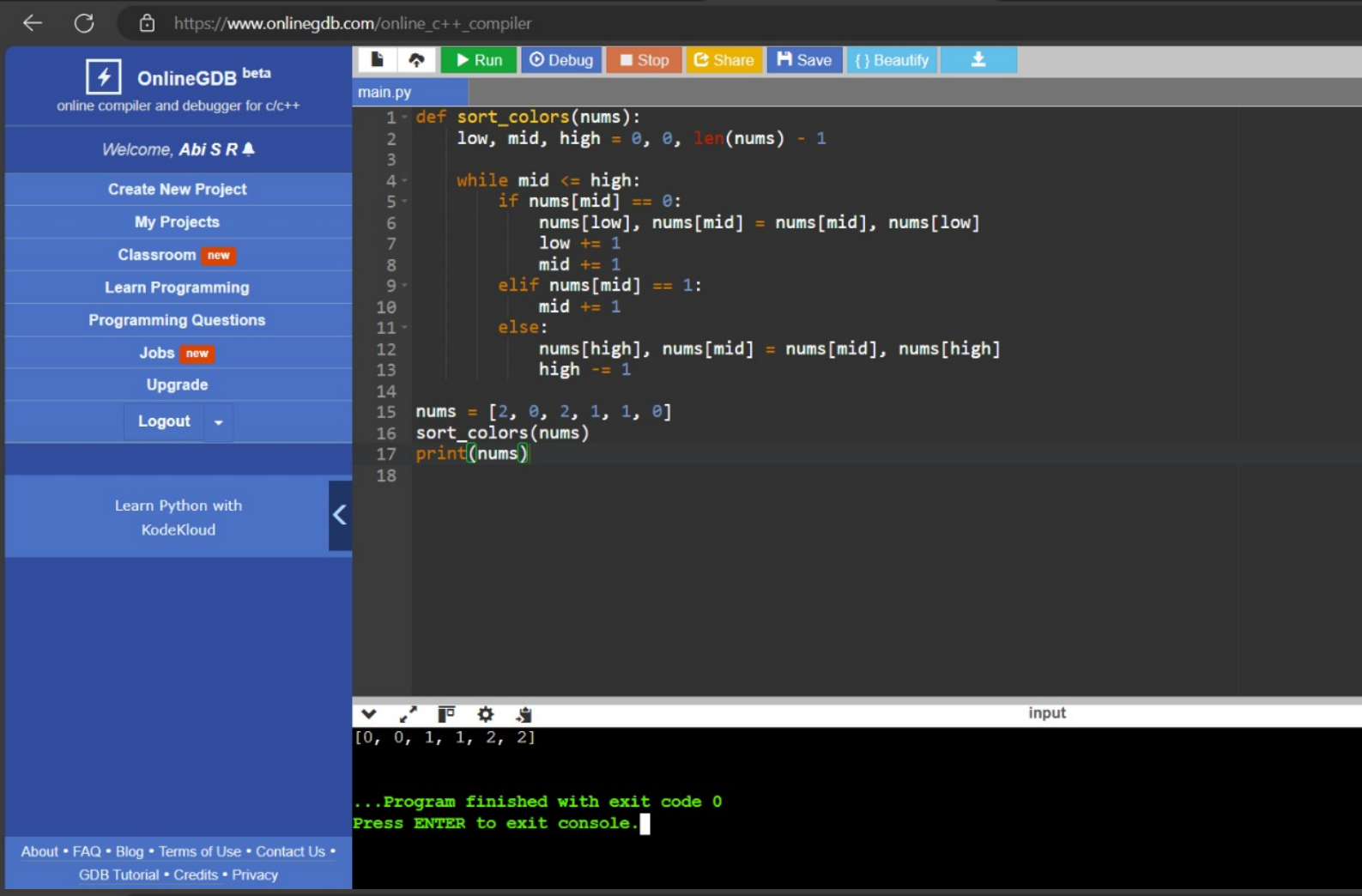
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main.py
def sort_colors(nums):
low, mid, high = 0, 0, len(nums) - 1
while mid <= high:
if nums[mid] == 0:
nums[low], nums[mid] = nums[mid], nums[low]
low += 1
mid += 1
elif nums[mid] == 1:
mid += 1
else:
nums[high], nums[mid] = nums[mid], nums[high]
high -= 1
nums = [2, 0, 2, 1, 1, 0]
sort_colors(nums)
print(nums)
input
[0, 0, 1, 1, 2, 2]
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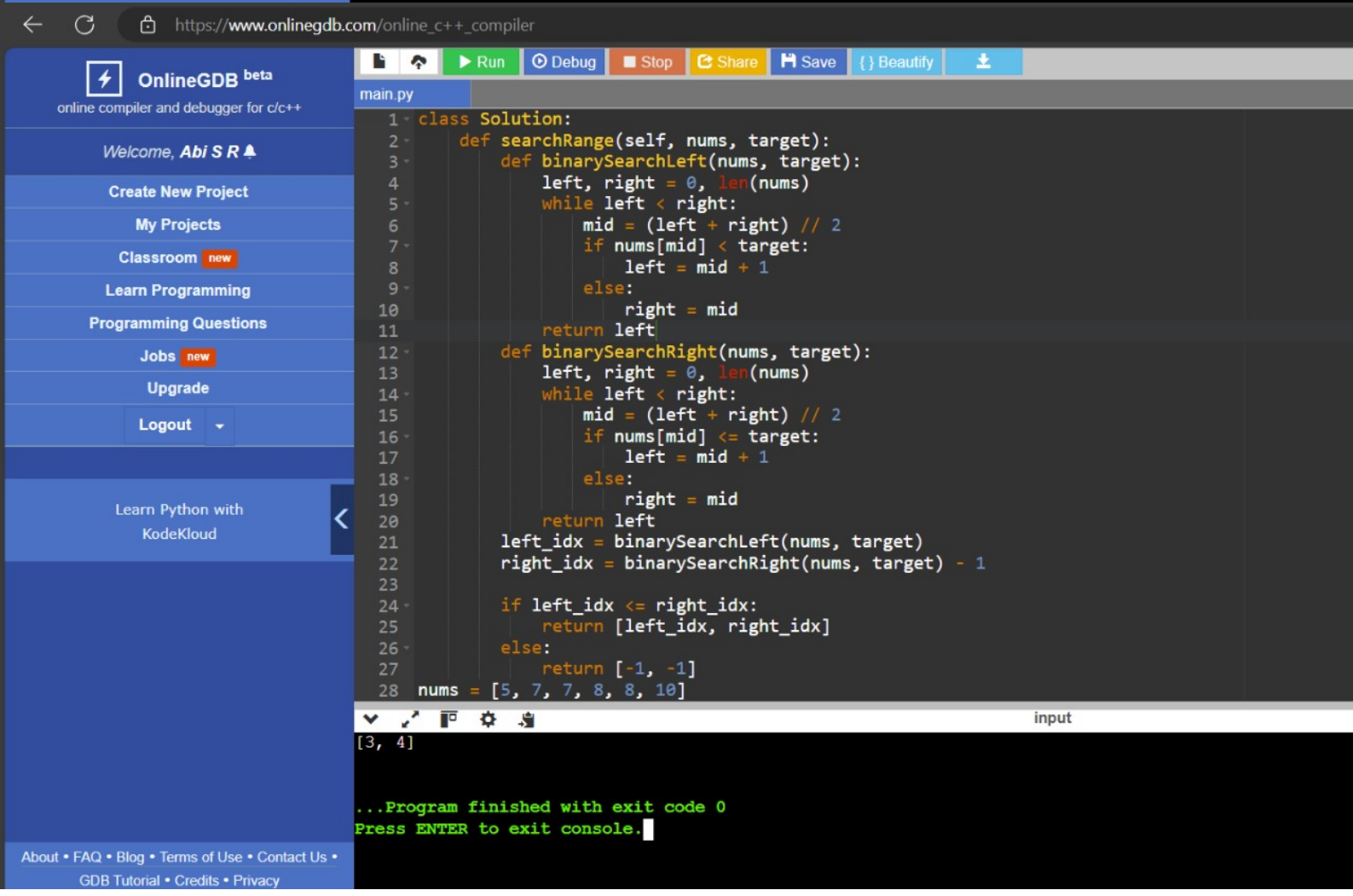
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main.py
class Solution:
def searchRange(self, nums, target):
def binarySearchLeft(nums, target):
left, right = 0, len(nums)
while left < right:
mid = (left + right) // 2
if nums[mid] < target:
left = mid + 1
else:
right = mid
return left
def binarySearchRight(nums, target):
left, right = 0, len(nums)
while left < right:
mid = (left + right) // 2
if nums[mid] <= target:
left = mid + 1
else:
right = mid
return left
left_idx = binarySearchLeft(nums, target)
right_idx = binarySearchRight(nums, target) - 1
if left_idx <= right_idx:
return [left_idx, right_idx]
else:
return [-1, -1]
nums = [5, 7, 7, 8, 8, 10]
input
[3, 4]
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main.py

```python
class ListNode:
    def __init__(self, val=0, next=None):
        self.val = val
        self.next = next

def delete_duplicates(head):
    current = head

    while current and current.next:
        if current.val == current.next.val:
            current.next = current.next.next
        else:
            current = current.next

    return head

def create_linked_list(arr):
    if not arr:
        return None
    head = ListNode(arr[0])
    current = head
    for val in arr[1:]:
        current.next = ListNode(val)
        current = current.next
    return head
def linked_list_to_list(head):
    result = []
    current = head
```

input

```
[1, 2]


...Program finished with exit code 0
Press ENTER to exit console.
```


main.py

```python
def merge(nums1, m, nums2, n):
    nums1[m:] = nums2
    nums1.sort()

nums1 = [1, 2, 3, 0, 0, 0]
m = 3
nums2 = [2, 5, 6]
n = 3
merge(nums1, m, nums2, n)
print(nums1)
```

input

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


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```

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main.py

```python
class TreeNode:
    def __init__(self, val=0, left=None, right=None):
        self.val = val
        self.left = left
        self.right = right

def sorted_array_to_bst(nums):
    if not nums:
        return None

    mid = len(nums) // 2

    root = TreeNode(nums[mid])
    root.left = sorted_array_to_bst(nums[:mid])
    root.right = sorted_array_to_bst(nums[mid+1:])

    return root

def print_tree(root):
    if root:
        print(root.val, end=" ")
        print_tree(root.left)
        print_tree(root.right)


nums = [-10, -3, 0, 5, 9]
root = sorted_array_to_bst(nums)
print_tree(root)
```

input

```
0 -3 -10 9 5

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```

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main.py

```python
def insertion_sort(arr):
    for i in range(1, len(arr)):
        key = arr[i]
        j = i - 1
        while j >= 0 and key < arr[j]:
            arr[j + 1] = arr[j]
            j -= 1
        arr[j + 1] = key

my_list = [12, 11, 13, 5, 6]
insertion_sort(my_list)
print("Sorted array is:", my_list)
```

input

```
Sorted array is: [5, 6, 11, 12, 13]


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```

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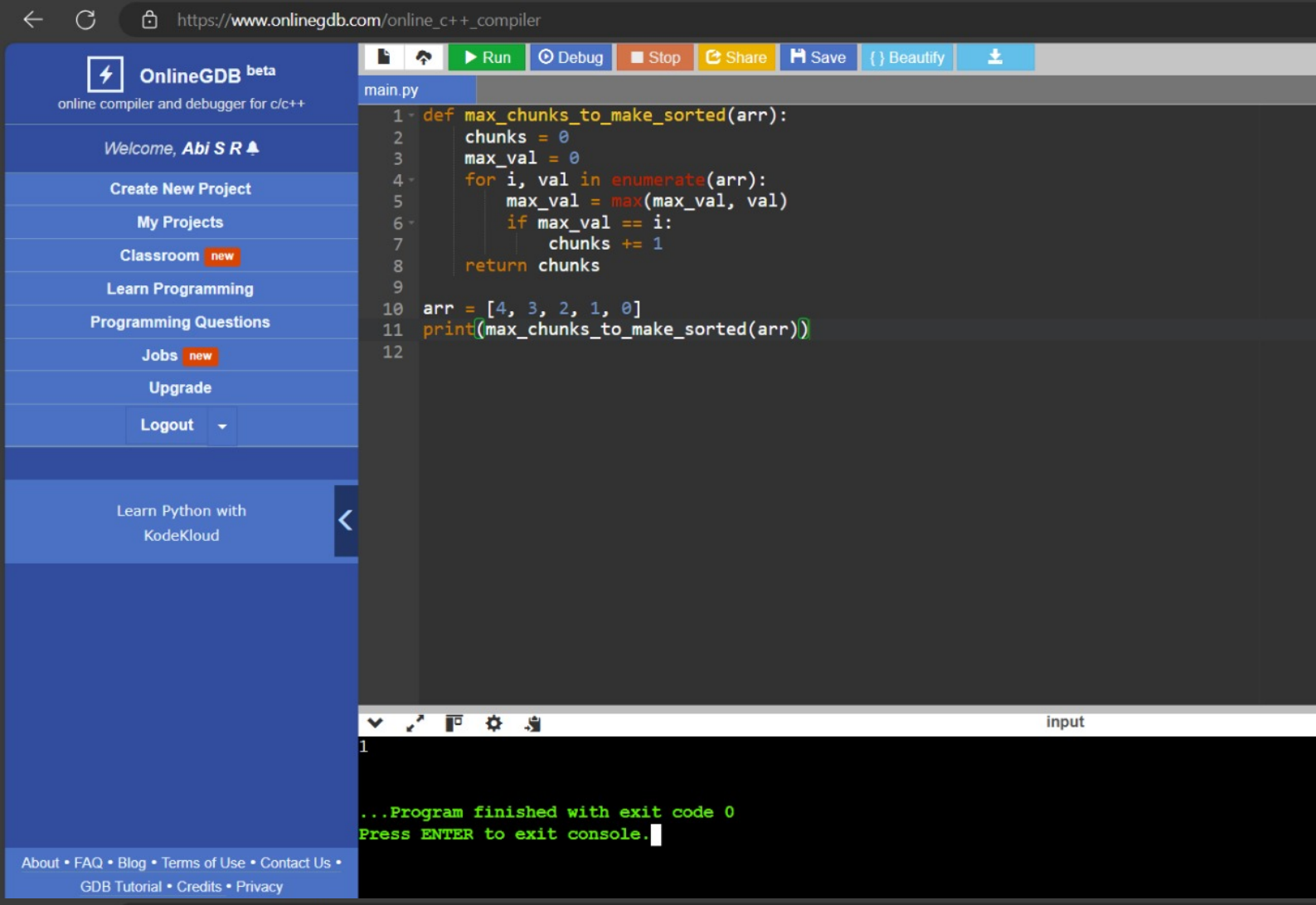
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main.py
def max_chunks_to_make_sorted(arr):
chunks = 0
max_val = 0
for i, val in enumerate(arr):
max_val = max(max_val, val)
if max_val == i:
chunks += 1
return chunks
arr = [4, 3, 2, 1, 0]
print(max_chunks_to_make_sorted(arr))
input
1
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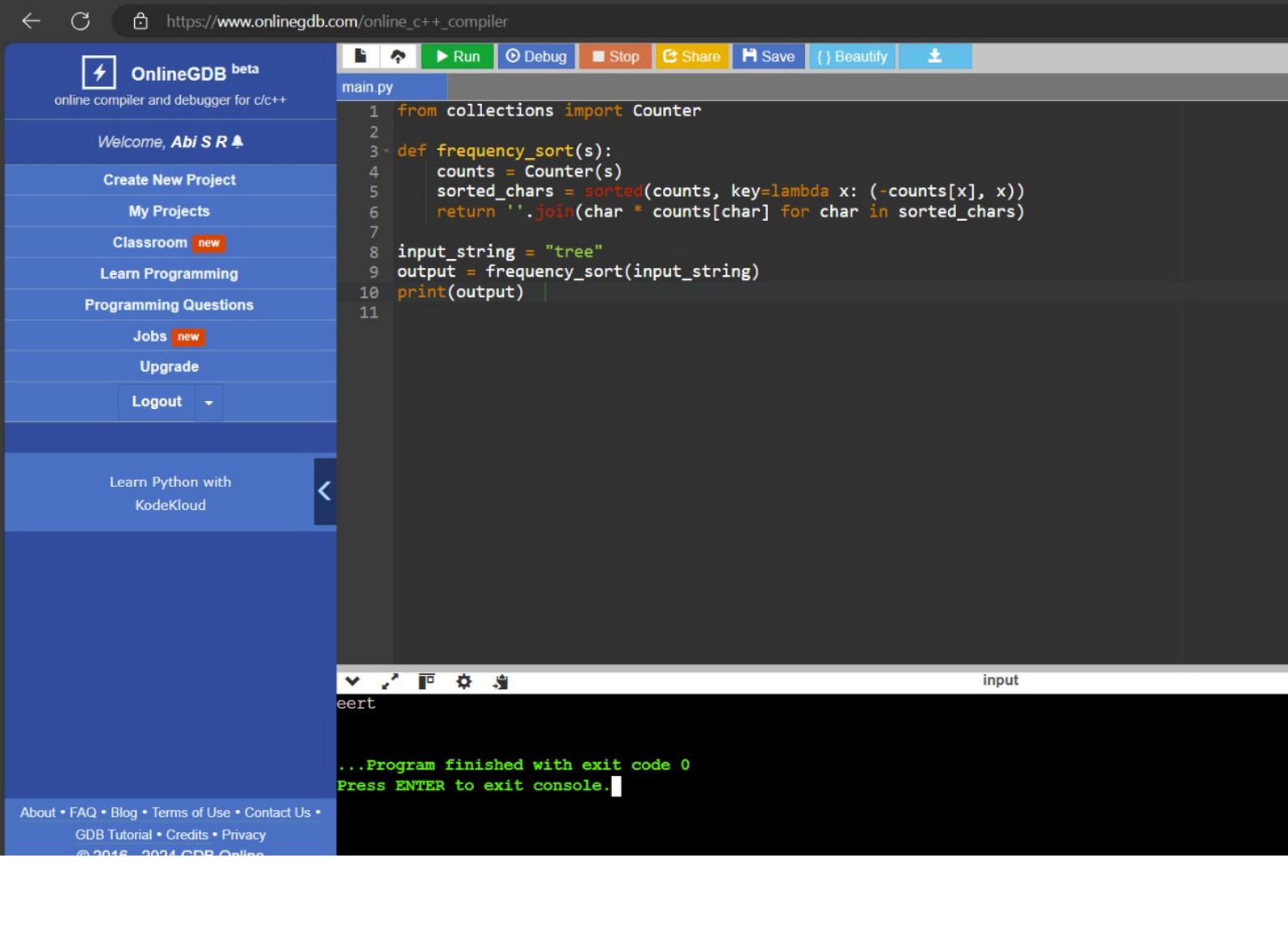
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main.py
from collections import Counter
def frequency_sort(s):
counts = Counter(s)
sorted_chars = sorted(counts, key=lambda x: (-counts[x], x))
return ''.join(char * counts[char] for char in sorted_chars)
input_string = "tree"
output = frequency_sort(input_string)
print(output)
input
eert
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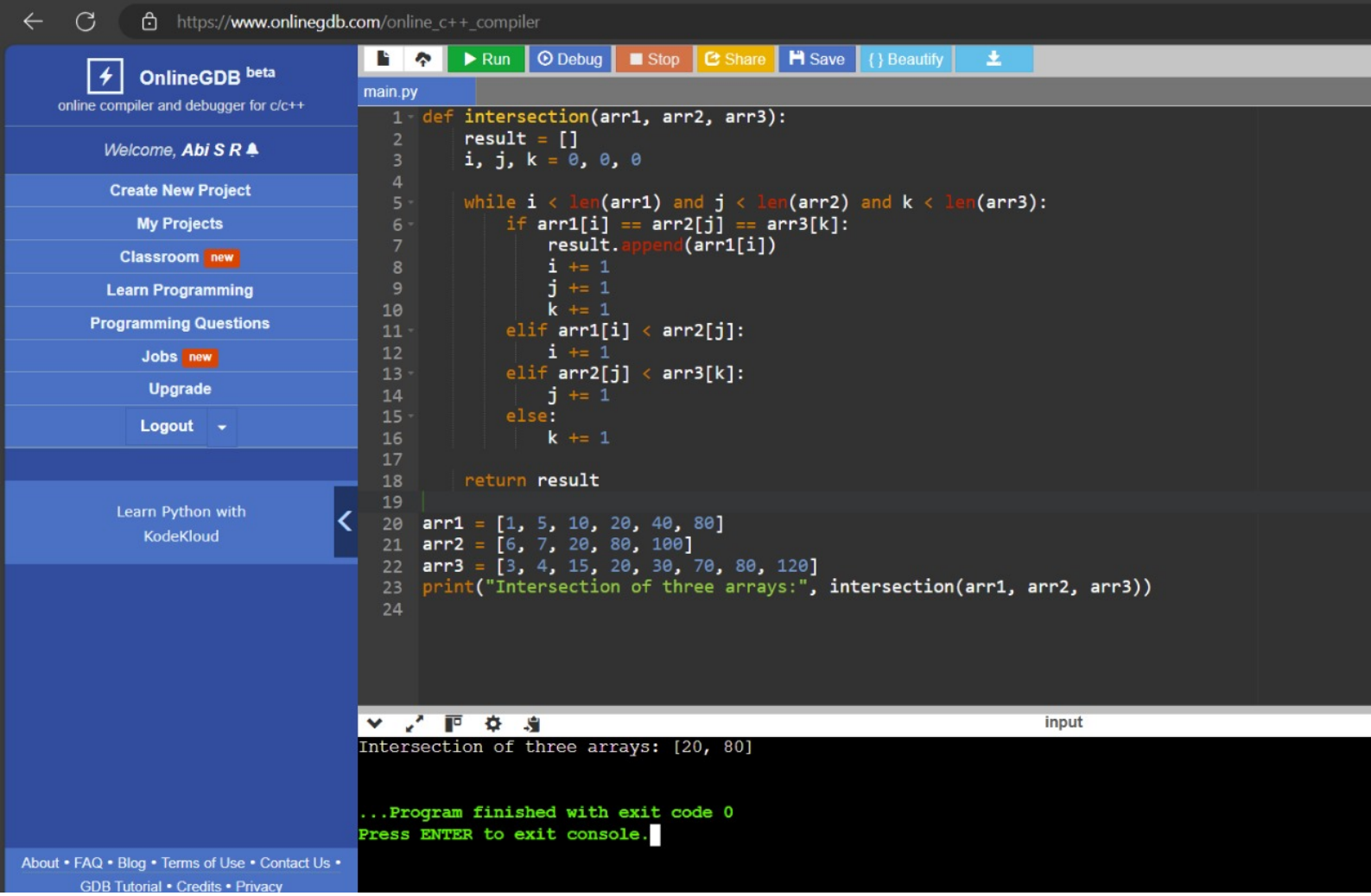
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main.py
def intersection(arr1, arr2, arr3):
result = []
i, j, k = 0, 0, 0
while i < len(arr1) and j < len(arr2) and k < len(arr3):
if arr1[i] == arr2[j] == arr3[k]:
result.append(arr1[i])
i += 1
j += 1
k += 1
elif arr1[i] < arr2[j]:
i += 1
elif arr2[j] < arr3[k]:
j += 1
else:
k += 1
return result
arr1 = [1, 5, 10, 20, 40, 80]
arr2 = [6, 7, 20, 80, 100]
arr3 = [3, 4, 15, 20, 30, 70, 80, 120]
print("Intersection of three arrays:", intersection(arr1, arr2, arr3))
input
Intersection of three arrays: [20, 80]
...Program finished with exit code 0
Press ENTER to exit console.