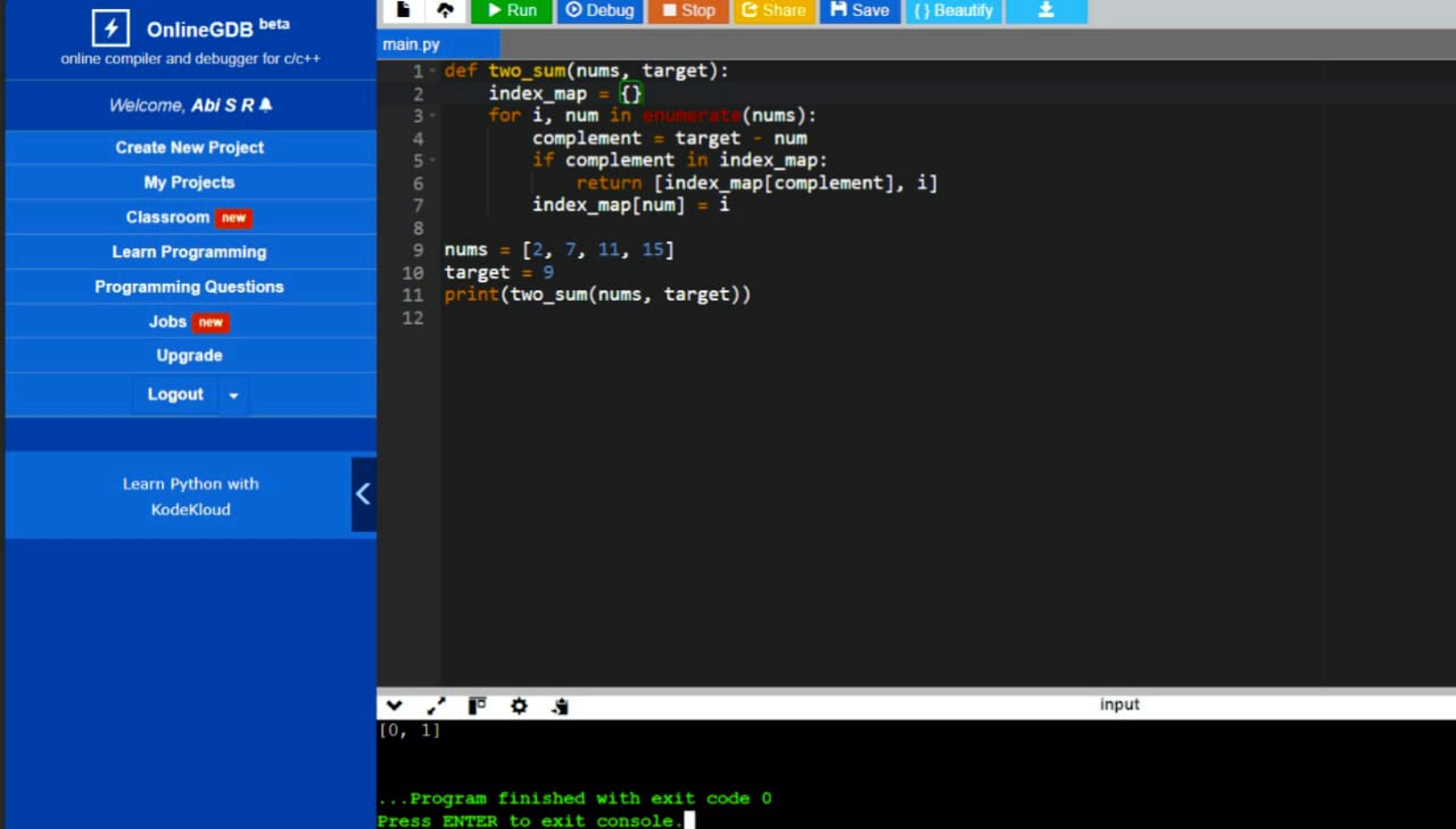
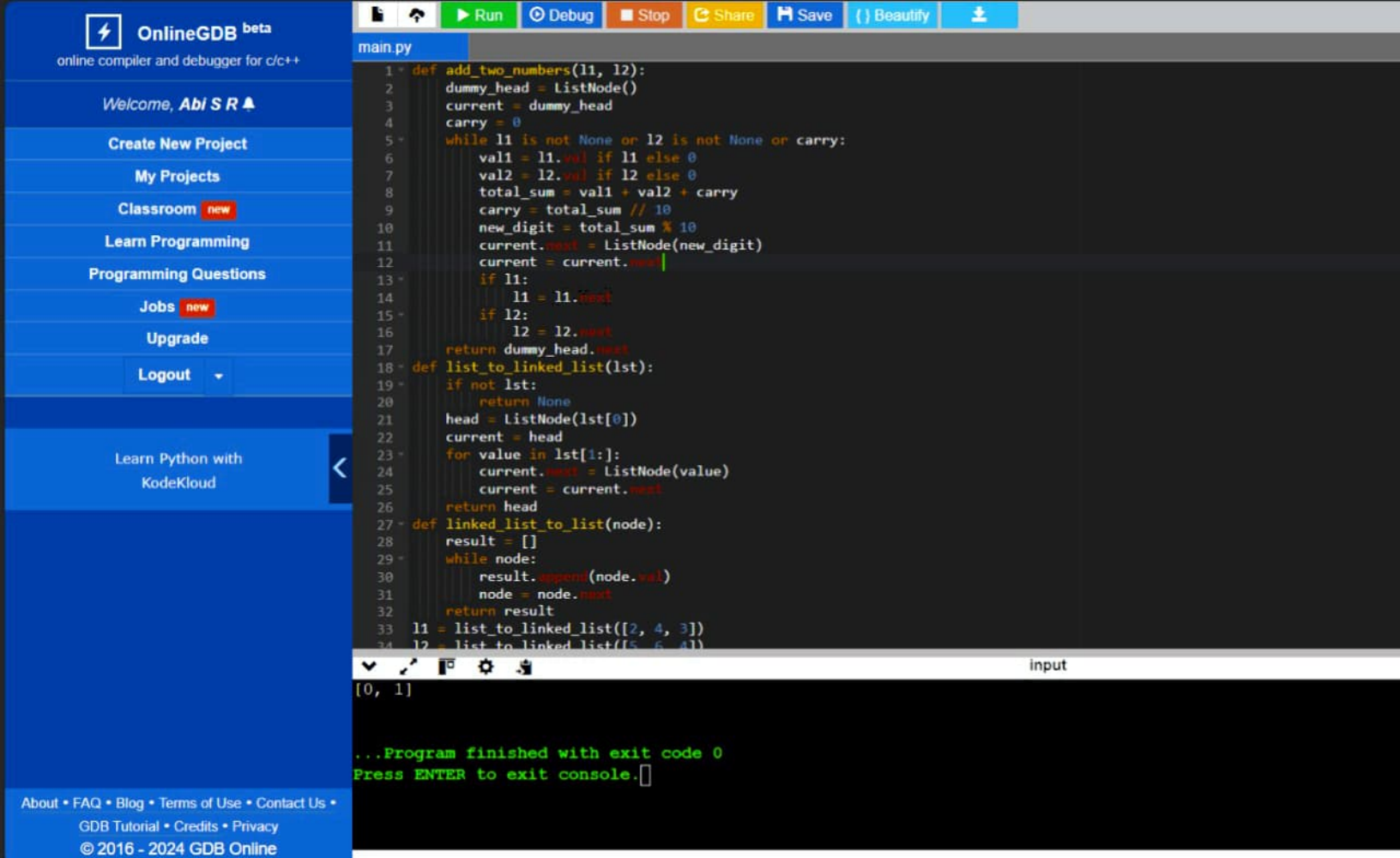
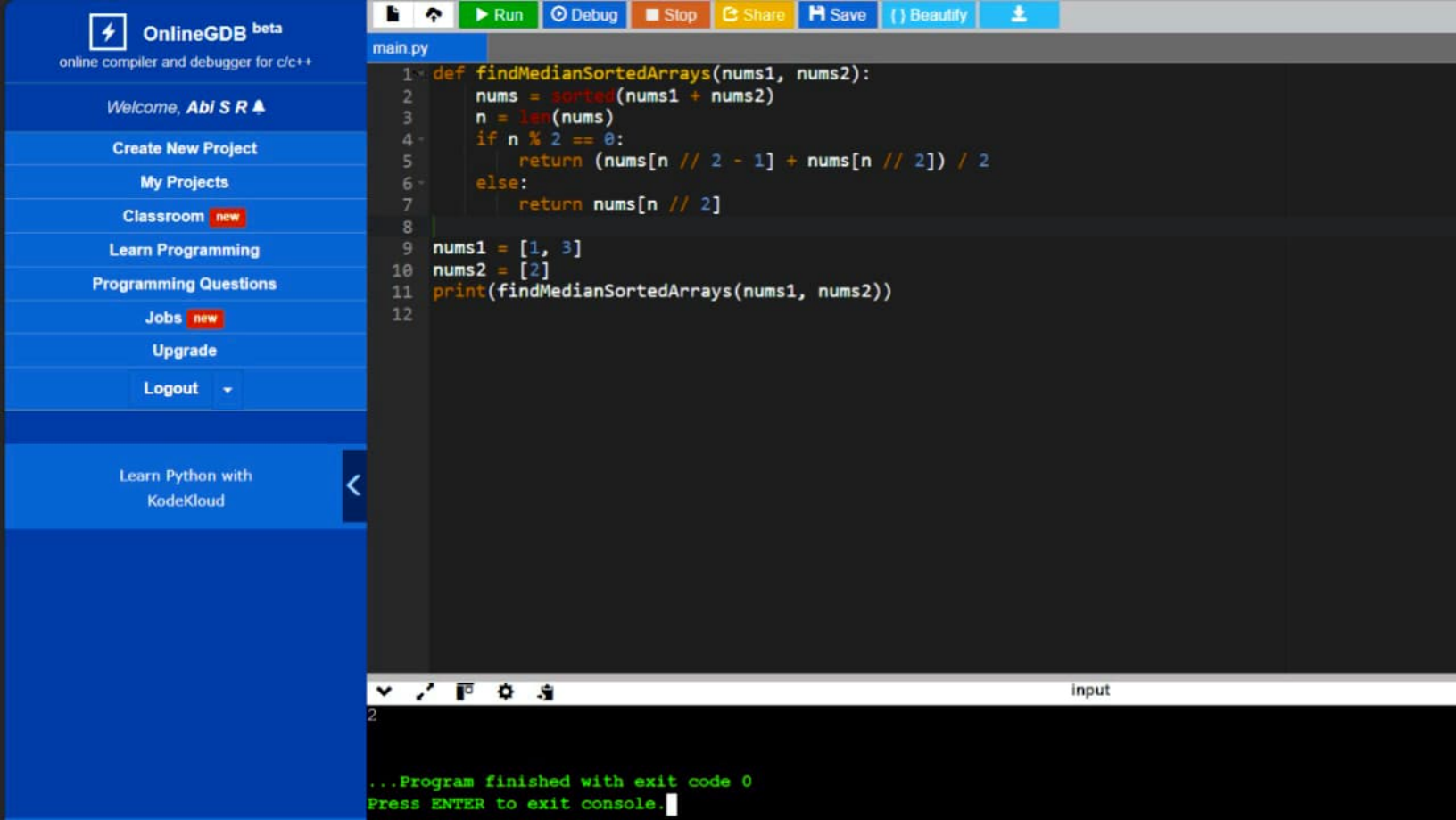
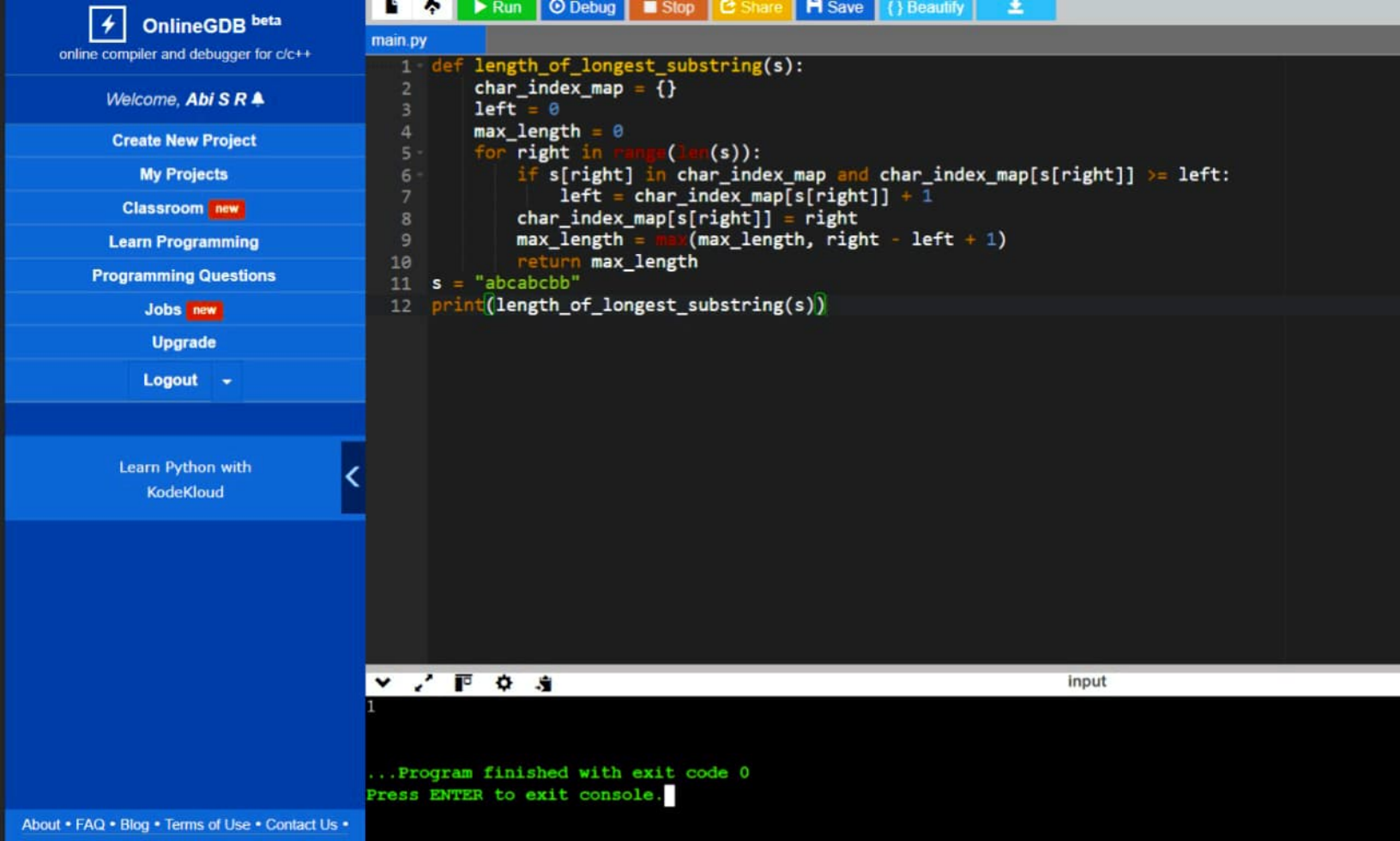

OnlineGDB beta
online compiler and debugger for c/c++
Welcome, Abi S R
Create New Project
My Projects
Classroom new
Learn Programming
Programming Questions
Jobs new
Upgrade
Logout
Learn Python with
KodeKloud
Run
Debug
Stop
Share
Save
{ } Beautify
main.py
1 def two_sum(nums, target):
2 index_map = {}
3 for i, num in enumerate(nums):
4 complement = target - num
5 if complement in index_map:
6 return [index_map[complement], i]
7 index_map[num] = i
8
9 nums = [2, 7, 11, 15]
10 target = 9
11 print(two_sum(nums, target))
12
input
[0, 1]
...Program finished with exit code 0
Press ENTER to exit console.


OnlineGDB beta
online compiler and debugger for c/c++
Welcome, Abi S R
Create New Project
My Projects
Classroom new
Learn Programming
Programming Questions
Jobs new
Upgrade
Logout
Learn Python with KodeKloud
Run
Debug
Stop
Share
Save
{ } Beautify
main.py
def add_two_numbers(l1, l2):
dummy_head = ListNode()
current = dummy_head
carry = 0
while l1 is not None or l2 is not None or carry:
val1 = l1.val if l1 else 0
val2 = l2.val if l2 else 0
total_sum = val1 + val2 + carry
carry = total_sum // 10
new_digit = total_sum % 10
current.next = ListNode(new_digit)
current = current.next
if l1:
l1 = l1.next
if l2:
l2 = l2.next
return dummy_head.next
def list_to_linked_list(lst):
if not lst:
return None
head = ListNode(lst[0])
current = head
for value in lst[1:]:
current.next = ListNode(value)
current = current.next
return head
def linked_list_to_list(node):
result = []
while node:
result.append(node.val)
node = node.next
return result
l1 = list_to_linked_list([2, 4, 3])
input
[0, 1]
...Program finished with exit code 0
Press ENTER to exit console.
About • FAQ • Blog • Terms of Use • Contact Us • GDB Tutorial • Credits • Privacy
© 2016 - 2024 GDB Online


OnlineGDB beta
online compiler and debugger for c/c++
Welcome, Abl S R
Create New Project
My Projects
Classroom new
Learn Programming
Programming Questions
Jobs new
Upgrade
Logout
Learn Python with
KodeKloud
Run
Debug
Stop
Share
Save
{ } Beautify
main.py
def findMedianSortedArrays(nums1, nums2):
nums = sorted(nums1 + nums2)
n = len(nums)
if n % 2 == 0:
return (nums[n // 2 - 1] + nums[n // 2]) / 2
else:
return nums[n // 2]
nums1 = [1, 3]
nums2 = [2]
print(findMedianSortedArrays(nums1, nums2))
input
2
...Program finished with exit code 0
Press ENTER to exit console.


OnlineGDB beta
online compiler and debugger for c/c++
Welcome, Abi S R
Create New Project
My Projects
Classroom new
Learn Programming
Programming Questions
Jobs new
Upgrade
Logout
Learn Python with
KodeKloud
About • FAQ • Blog • Terms of Use • Contact Us •
Run
Debug
Stop
Share
Save
{ } Beautify
main.py
1 def length_of_longest_substring(s):
2 char_index_map = {}
3 left = 0
4 max_length = 0
5 for right in range(len(s)):
6 if s[right] in char_index_map and char_index_map[s[right]] >= left:
7 left = char_index_map[s[right]] + 1
8 char_index_map[s[right]] = right
9 max_length = max(max_length, right - left + 1)
10 return max_length
11 s = "abcabcbb"
12 print(length_of_longest_substring(s))
input
1
...Program finished with exit code 0
Press ENTER to exit console.

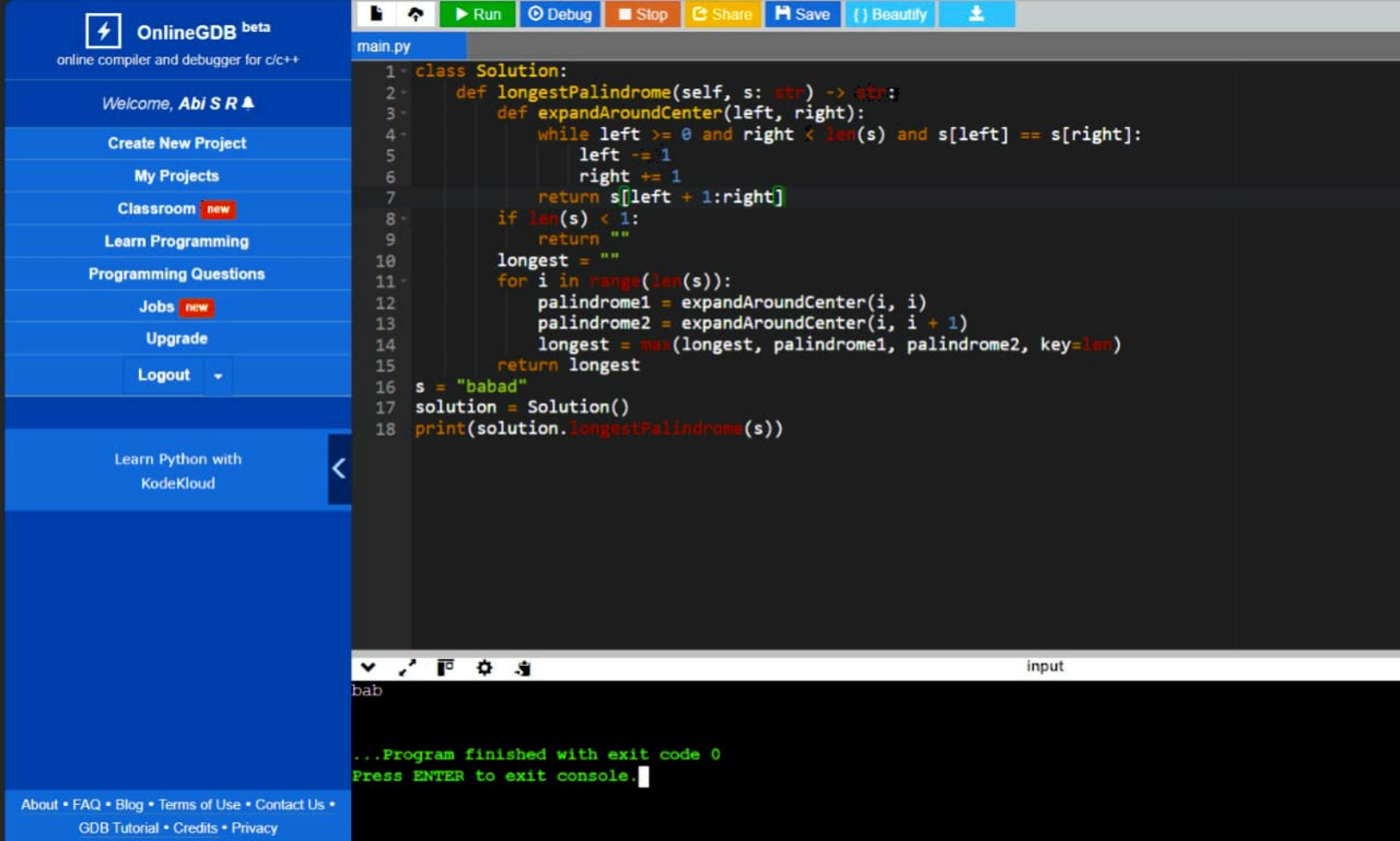
Run | Debug | Stop | Share | Save | { } Beautify

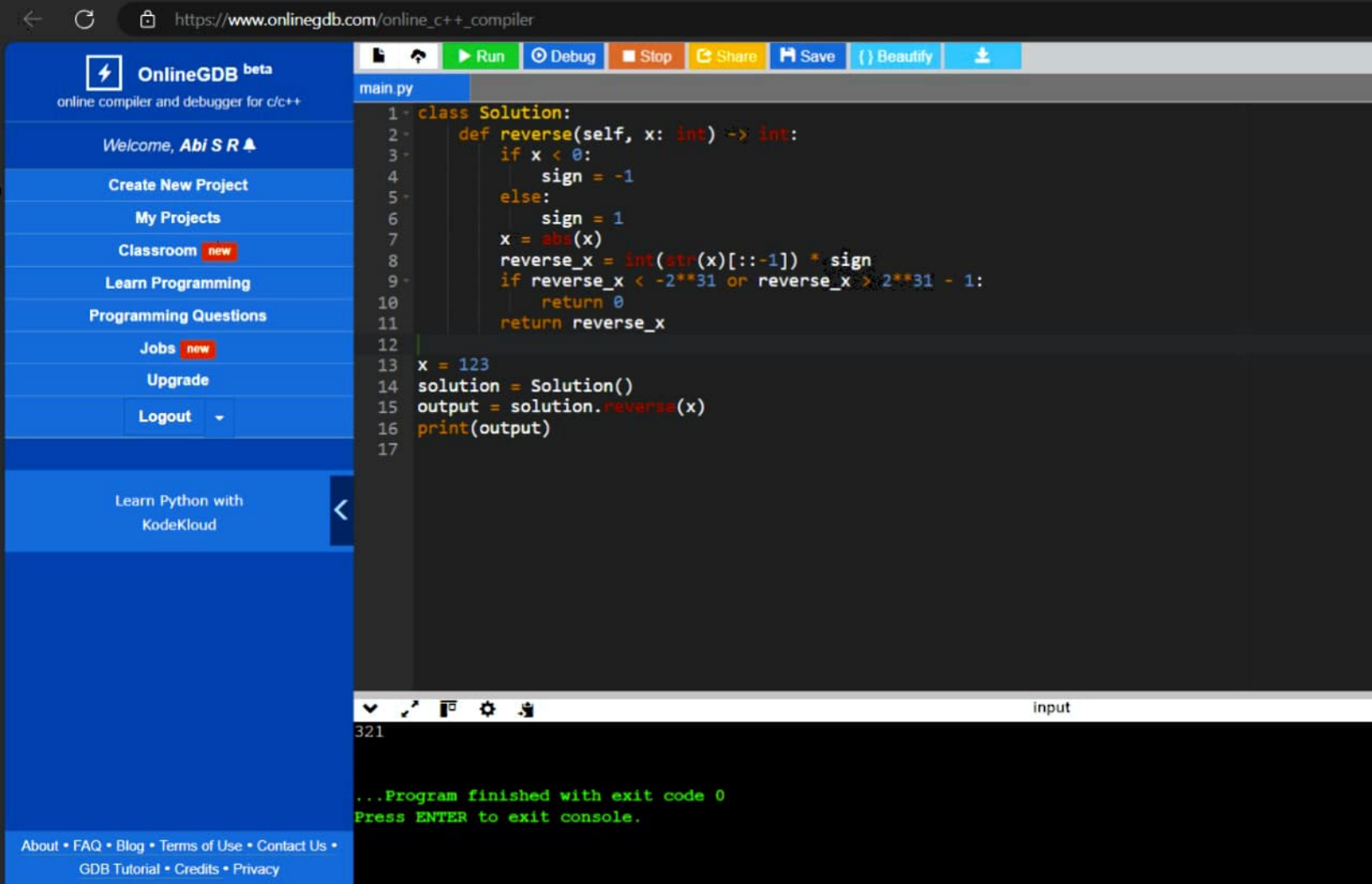
main.py

```python
def convert(s, numRows):
    if numRows == 1 or numRows >= len(s):
        return s

    rows = [''] * numRows
    index, step = 0, 1

    for char in s:
        rows[index] += char
        if index == 0:
            step = 1
        elif index == numRows - 1:
            step = -1
        index += step

    return ''.join(rows)

input_string = "PAYPALISHIRING"
num_rows = 3
output = convert(input_string, num_rows)
print(output)
```

input

```
PAHNAPLSIIGYIR


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


OnlineGDB beta
online compiler and debugger for c/c++
Welcome, Abi S R
Create New Project
My Projects
Classroom new
Learn Programming
Programming Questions
Jobs new
Upgrade
Logout
Learn Python with
KodeKloud
Run
Debug
Stop
Share
Save
{ } Beautify
main.py
class Solution:
def longestPalindrome(self, s: str) -> str:
def expandAroundCenter(left, right):
while left >= 0 and right < len(s) and s[left] == s[right]:
left -= 1
right += 1
return s[left + 1:right]
if len(s) < 1:
return ""
longest = ""
for i in range(len(s)):
palindrome1 = expandAroundCenter(i, i)
palindrome2 = expandAroundCenter(i, i + 1)
longest = max(longest, palindrome1, palindrome2, key=len)
return longest
s = "babad"
solution = Solution()
print(solution.longestPalindrome(s))
input
bab
...Program finished with exit code 0
Press ENTER to exit console.
About • FAQ • Blog • Terms of Use • Contact Us •
GDB Tutorial • Credits • Privacy


https://www.onlinegdb.com/online_c++_compiler
OnlineGDB beta
online compiler and debugger for c/c++
Welcome, Abi S R
Create New Project
My Projects
Classroom new
Learn Programming
Programming Questions
Jobs new
Upgrade
Logout
Learn Python with
KodeKloud
About • FAQ • Blog • Terms of Use • Contact Us •
GDB Tutorial • Credits • Privacy
Run
Debug
Stop
Share
Save
{ } Beautify
main.py
class Solution:
def reverse(self, x: int) -> int:
if x < 0:
sign = -1
else:
sign = 1
x = abs(x)
reverse_x = int(str(x)[::-1]) * sign
if reverse_x < -2**31 or reverse_x > 2**31 - 1:
return 0
return reverse_x
x = 123
solution = Solution()
output = solution.reverse(x)
print(output)
input
321
...Program finished with exit code 0
Press ENTER to exit console.

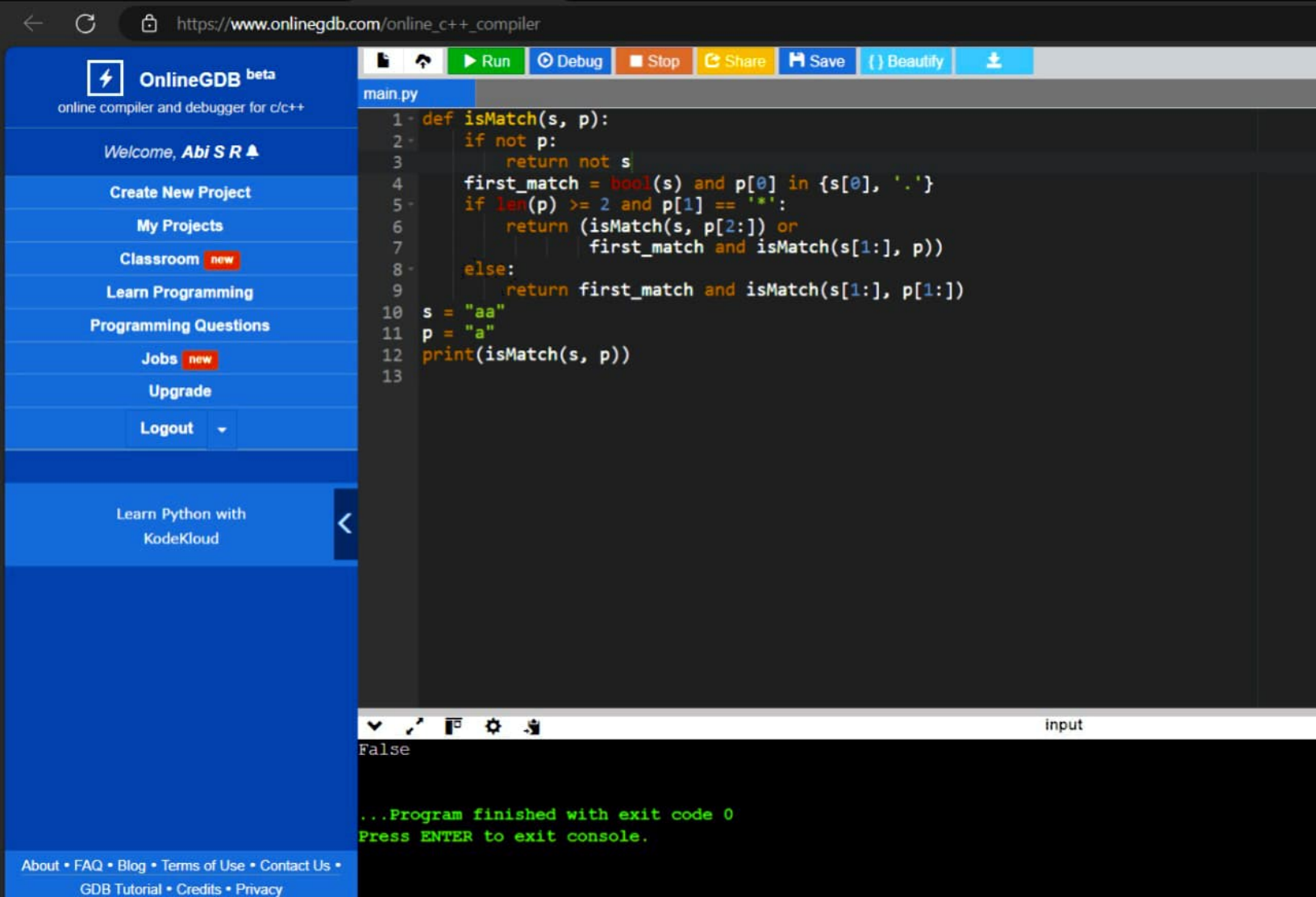
Run | Debug | Stop | Share | Save | { } Beautify

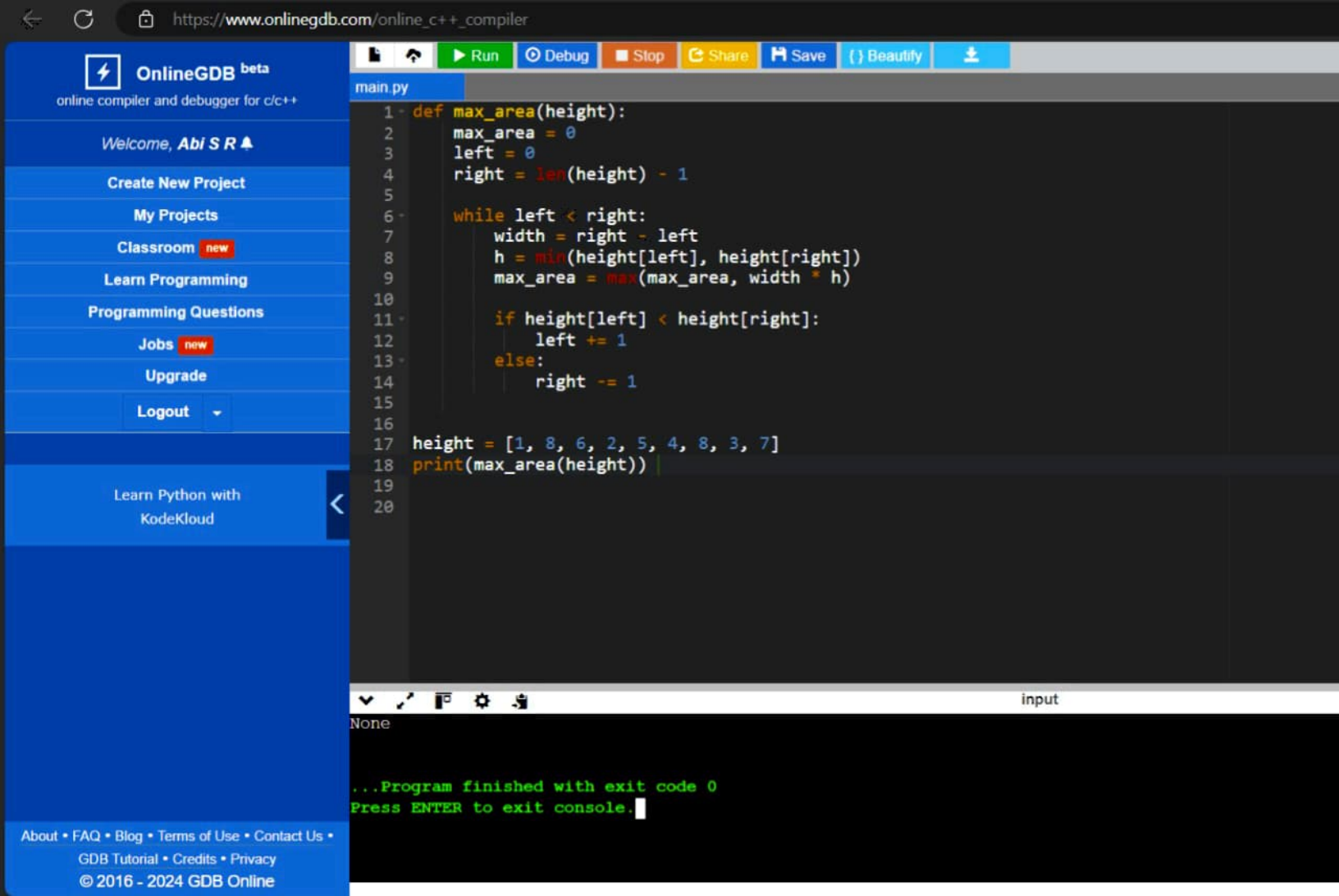
main.py

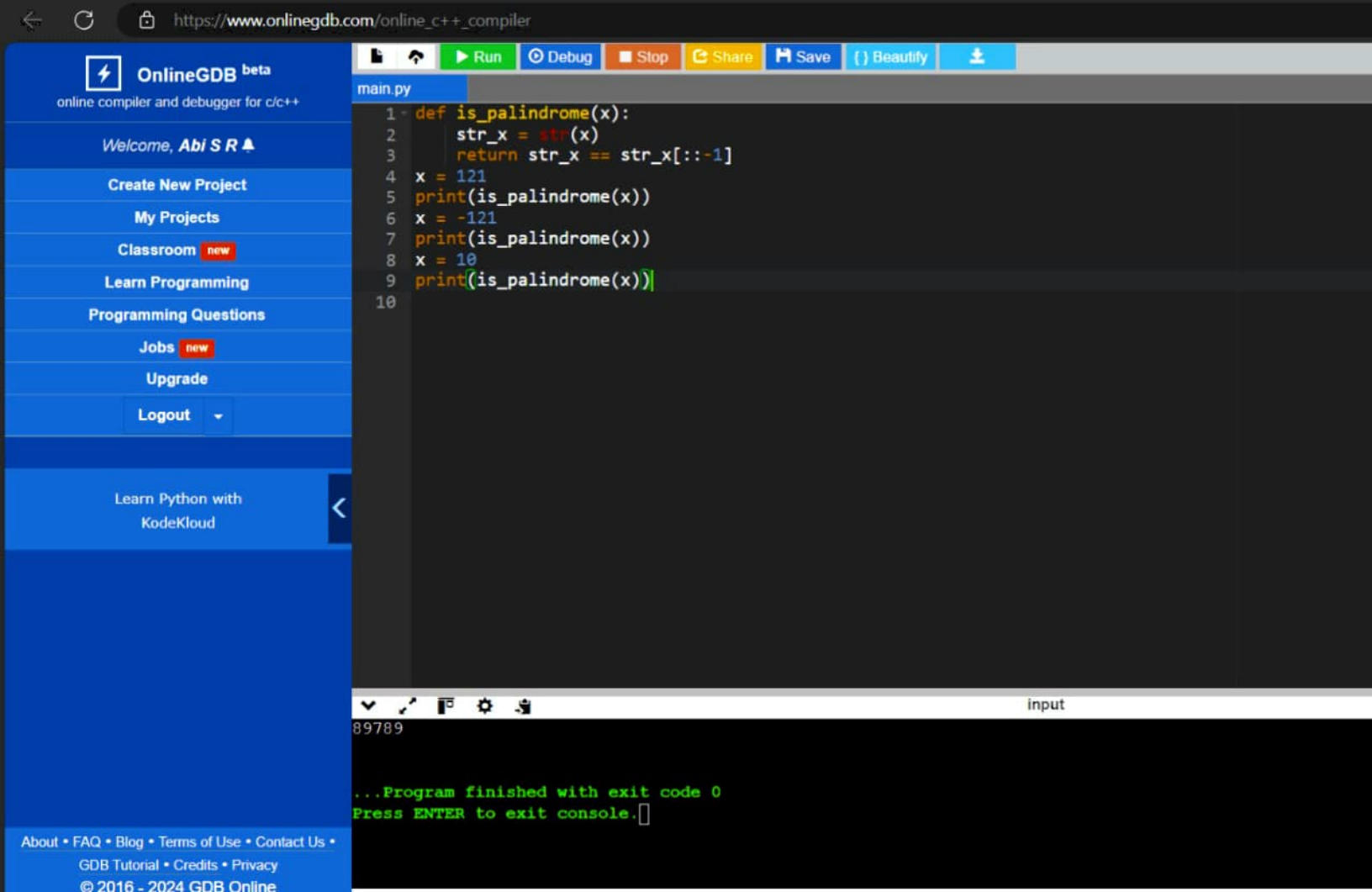
```python
def myAtoi(string):
    res = 0
    for i in range(len(string)):
        res = res * 10 + (ord(string[i]) - ord('0'))

    return res

string = "89789"

print (myAtoi(string))
```

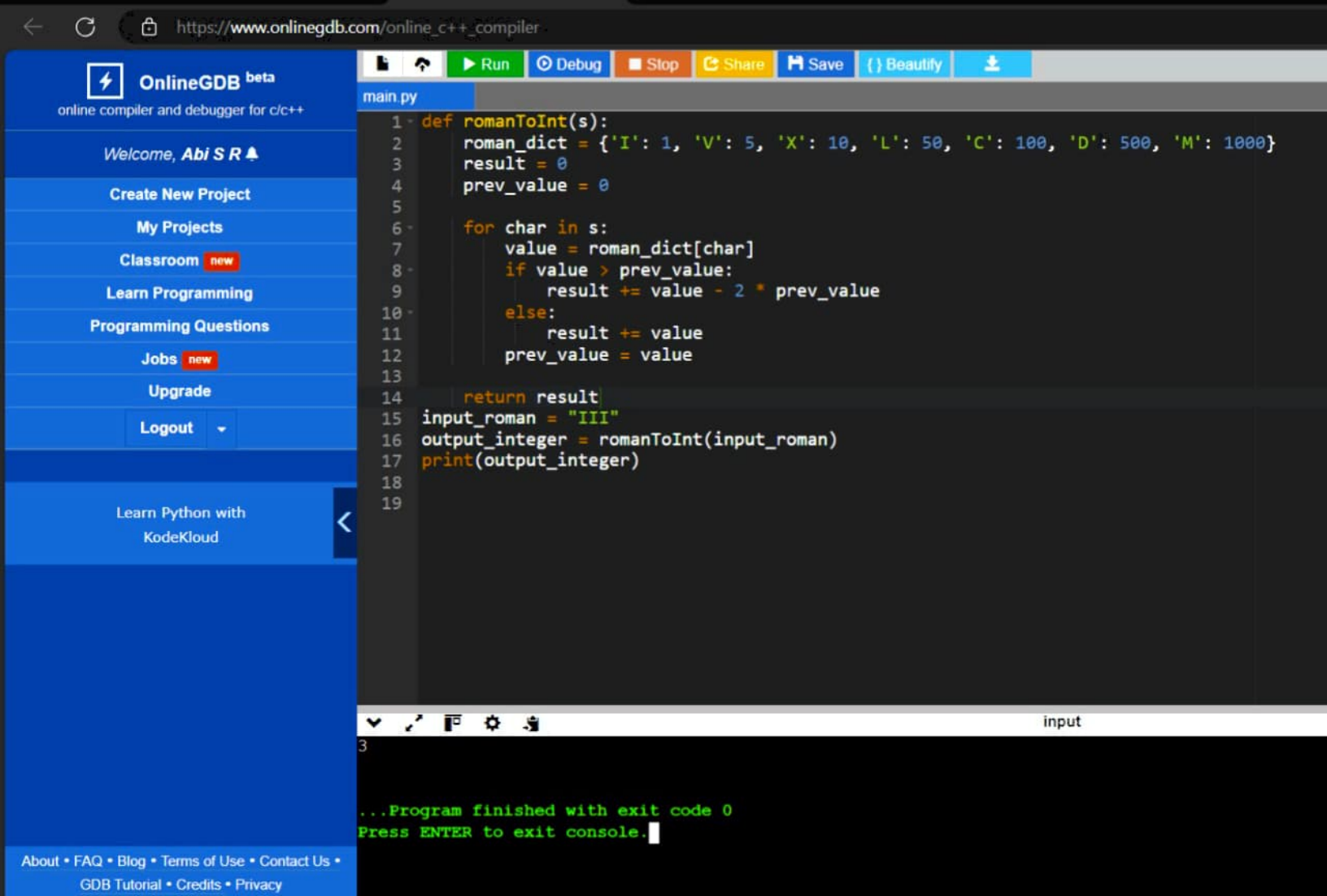
input

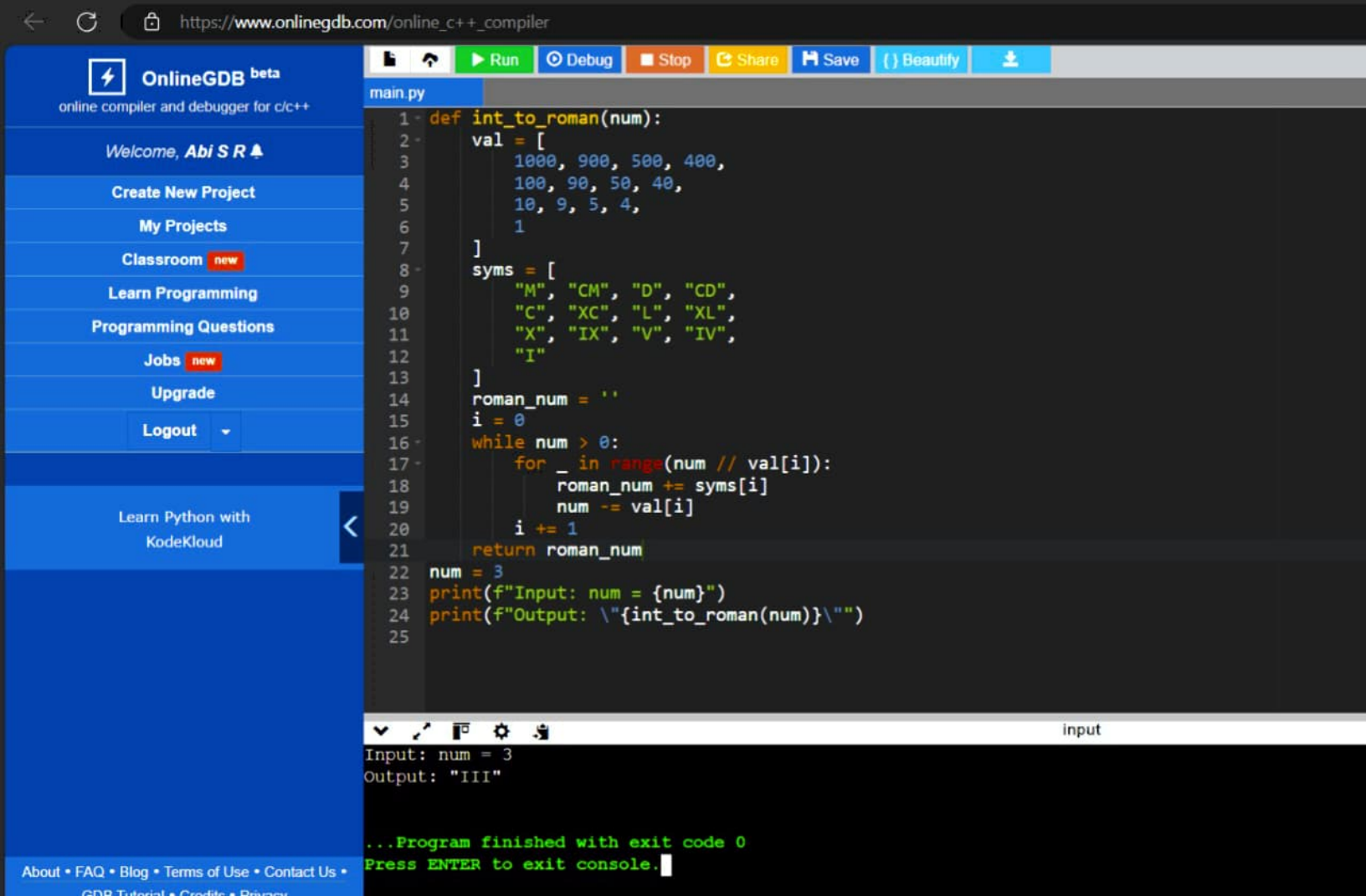
```
89789


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

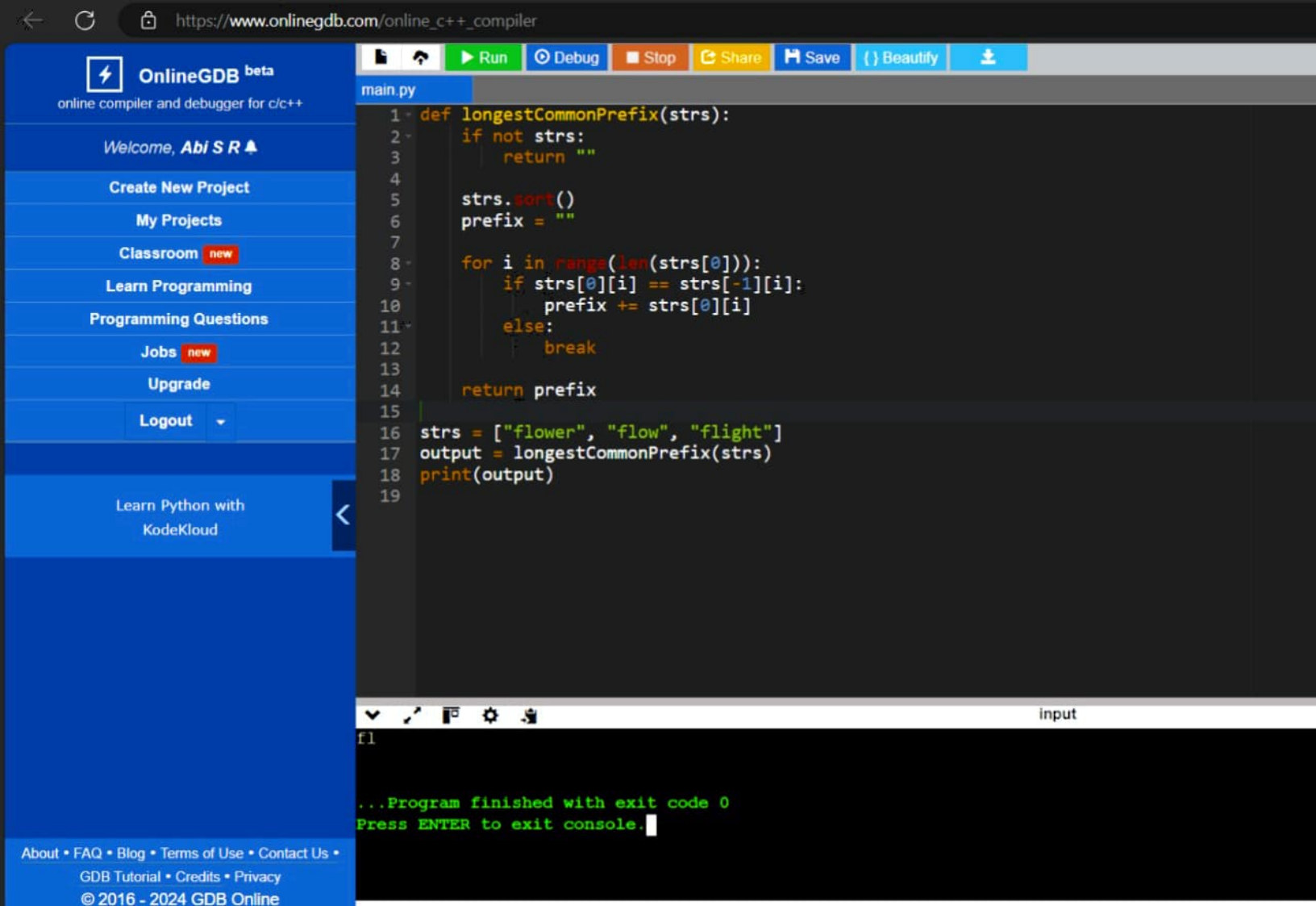

https://www.onlinegdb.com/online_c++_compiler
OnlineGDB beta
online compiler and debugger for c/c++
Welcome, Abi S R
Create New Project
My Projects
Classroom new
Learn Programming
Programming Questions
Jobs new
Upgrade
Logout
Learn Python with
KodeKloud
About • FAQ • Blog • Terms of Use • Contact Us •
GDB Tutorial • Credits • Privacy
Run
Debug
Stop
Share
Save
{ } Beautify
main.py
1 def isMatch(s, p):
2 if not p:
3 return not s
4 first_match = bool(s) and p[0] in {s[0], '.'}
5 if len(p) >= 2 and p[1] == '*':
6 return (isMatch(s, p[2:]) or
7 first_match and isMatch(s[1:], p))
8 else:
9 return first_match and isMatch(s[1:], p[1:])
10 s = "aa"
11 p = "a"
12 print(isMatch(s, p))
13
input
False
...Program finished with exit code 0
Press ENTER to exit console.


https://www.onlinegdb.com/online_c++_compiler
OnlineGDB beta
online compiler and debugger for c/c++
Welcome, Abi S R
Create New Project
My Projects
Classroom new
Learn Programming
Programming Questions
Jobs new
Upgrade
Logout
Learn Python with
KodeKloud
Run
Debug
Stop
Share
Save
{ } Beautify
main.py
def max_area(height):
max_area = 0
left = 0
right = len(height) - 1
while left < right:
width = right - left
h = min(height[left], height[right])
max_area = max(max_area, width * h)
if height[left] < height[right]:
left += 1
else:
right -= 1
height = [1, 8, 6, 2, 5, 4, 8, 3, 7]
print(max_area(height))
input
None
...Program finished with exit code 0
Press ENTER to exit console.
About • FAQ • Blog • Terms of Use • Contact Us •
GDB Tutorial • Credits • Privacy
© 2016 - 2024 GDB Online


https://www.onlinegdb.com/online_c++_compiler
OnlineGDB beta
online compiler and debugger for c/c++
Welcome, Abi S R
Create New Project
My Projects
Classroom new
Learn Programming
Programming Questions
Jobs new
Upgrade
Logout
Learn Python with
KodeKloud
About • FAQ • Blog • Terms of Use • Contact Us •
GDB Tutorial • Credits • Privacy
© 2016 - 2024 GDB Online
Run
Debug
Stop
Share
Save
{ } Beautify
main.py
1 def is_palindrome(x):
2 str_x = str(x)
3 return str_x == str_x[::-1]
4 x = 121
5 print(is_palindrome(x))
6 x = -121
7 print(is_palindrome(x))
8 x = 10
9 print(is_palindrome(x))
10
input
89789
...Program finished with exit code 0
Press ENTER to exit console.


https://www.onlinegdb.com/online_c++_compiler
OnlineGDB beta
online compiler and debugger for c/c++
Welcome, Abi S R
Create New Project
My Projects
Classroom new
Learn Programming
Programming Questions
Jobs new
Upgrade
Logout
Learn Python with KodeKloud
About • FAQ • Blog • Terms of Use • Contact Us • GDB Tutorial • Credits • Privacy
Run
Debug
Stop
Share
Save
{ } Beautify
main.py
def romanToInt(s):
roman_dict = {'I': 1, 'V': 5, 'X': 10, 'L': 50, 'C': 100, 'D': 500, 'M': 1000}
result = 0
prev_value = 0
for char in s:
value = roman_dict[char]
if value > prev_value:
result += value - 2 * prev_value
else:
result += value
prev_value = value
return result
input_roman = "III"
output_integer = romanToInt(input_roman)
print(output_integer)
input
3
...Program finished with exit code 0
Press ENTER to exit console.


https://www.onlinegdb.com/online_c++_compiler
OnlineGDB beta
online compiler and debugger for c/c++
Welcome, Abi S R
Create New Project
My Projects
Classroom new
Learn Programming
Programming Questions
Jobs new
Upgrade
Logout
Learn Python with
KodeKloud
About • FAQ • Blog • Terms of Use • Contact Us •
Run
Debug
Stop
Share
Save
{ } Beautify
main.py
def int_to_roman(num):
val = [
1000, 900, 500, 400,
100, 90, 50, 40,
10, 9, 5, 4,
1
]
syms = [
"M", "CM", "D", "CD",
"C", "XC", "L", "XL",
"X", "IX", "V", "IV",
"I"
]
roman_num = ''
i = 0
while num > 0:
for _ in range(num // val[i]):
roman_num += syms[i]
num -= val[i]
i += 1
return roman_num
num = 3
print(f"Input: num = {num}")
print(f"Output: \"{int_to_roman(num)}\"")
input
Input: num = 3
Output: "III"
...Program finished with exit code 0
Press ENTER to exit console.


https://www.onlinegdb.com/online_c++_compiler
OnlineGDB beta
online compiler and debugger for c/c++
Welcome, Abi S R
Create New Project
My Projects
Classroom new
Learn Programming
Programming Questions
Jobs new
Upgrade
Logout
Learn Python with KodeKloud
Run
Debug
Stop
Share
Save
{ } Beautify
main.py
def longestCommonPrefix(strs):
if not strs:
return ""
strs.sort()
prefix = ""
for i in range(len(strs[0])):
if strs[0][i] == strs[-1][i]:
prefix += strs[0][i]
else:
break
return prefix
strs = ["flower", "flow", "flight"]
output = longestCommonPrefix(strs)
print(output)
input
fl
...Program finished with exit code 0
Press ENTER to exit console.
About • FAQ • Blog • Terms of Use • Contact Us • GDB Tutorial • Credits • Privacy
© 2016 - 2024 GDB Online

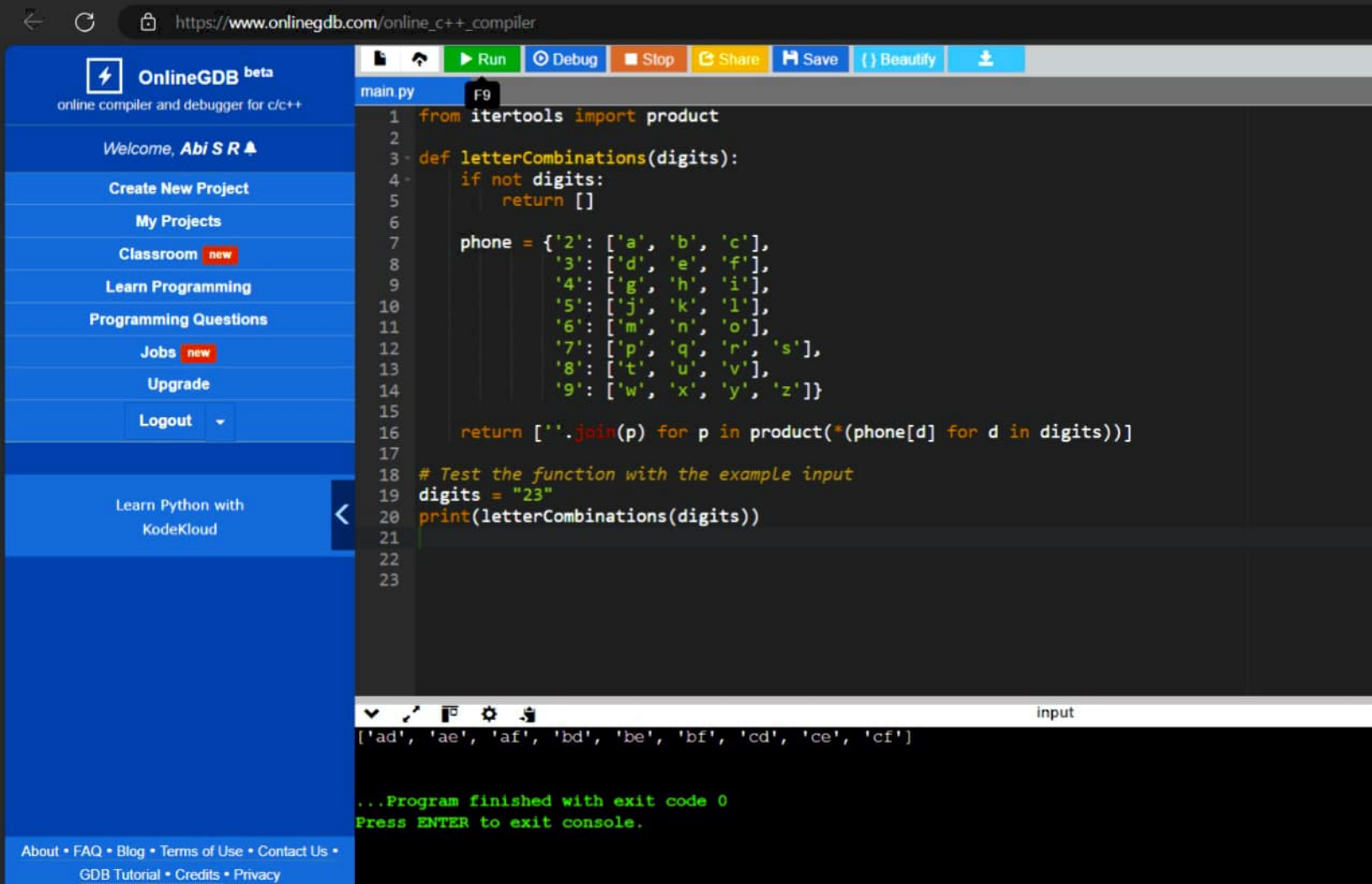
Run | Debug | Stop | Share | Save | { } Beautify

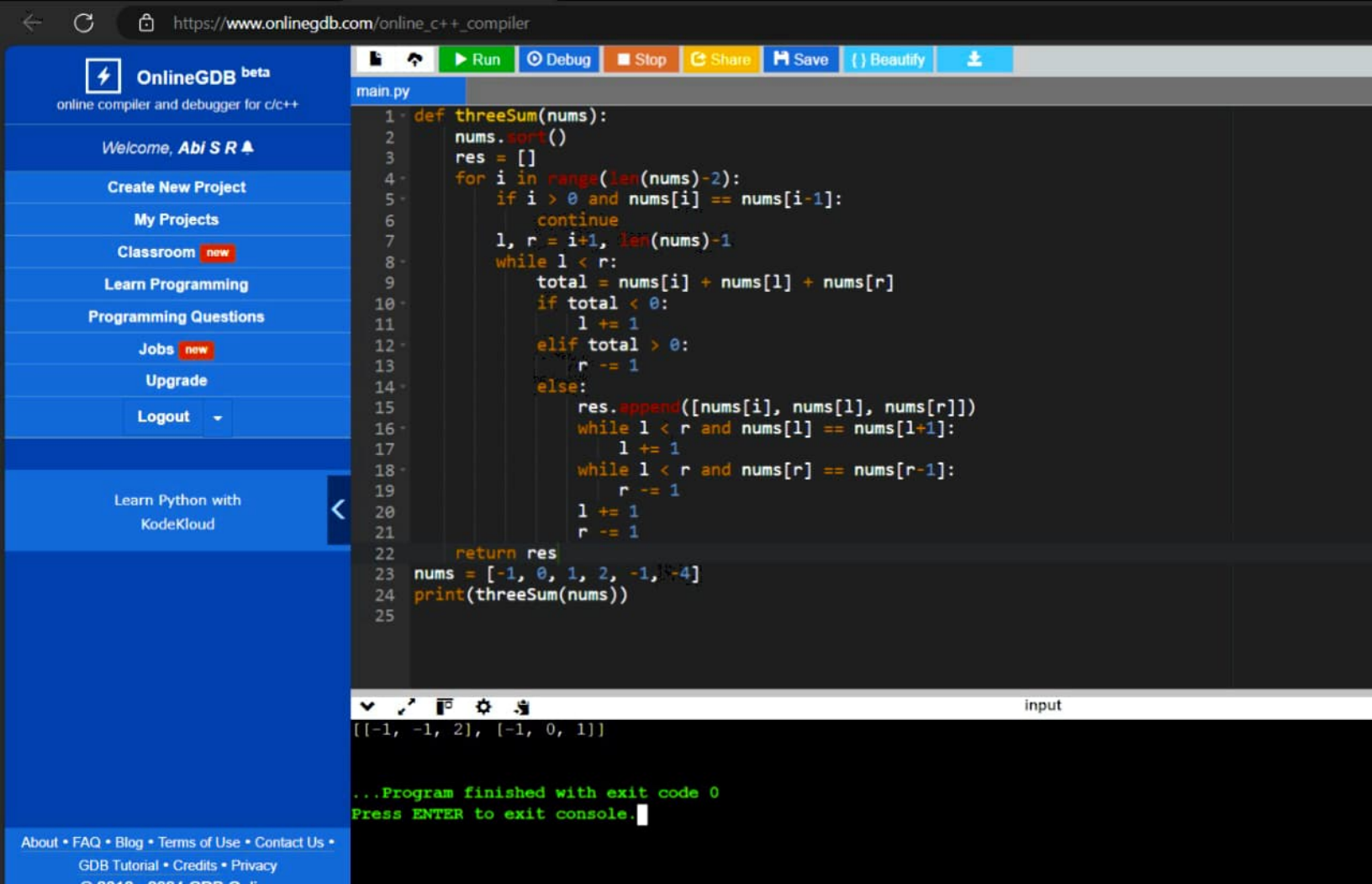
main.py

```python
def threeSumClosest(nums, target):
    nums.sort()
    closest_sum = float('inf')

    for i in range(len(nums) - 2):
        left, right = i + 1, len(nums) - 1

        while left < right:
            current_sum = nums[i] + nums[left] + nums[right]

            if abs(target - current_sum) < abs(target - closest_sum):
                closest_sum = current_sum

            if current_sum < target:
                left += 1
            else:
                right -= 1

    return closest_sum

nums = [-1, 2, 1, -4]
target = 1
print(threeSumClosest(nums, target))
```

input

```
2


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


https://www.onlinegdb.com/online_c++_compiler
OnlineGDB beta
online compiler and debugger for c/c++
Welcome, Abi S R
Create New Project
My Projects
Classroom new
Learn Programming
Programming Questions
Jobs new
Upgrade
Logout
Learn Python with
KodeKloud
About • FAQ • Blog • Terms of Use • Contact Us •
GDB Tutorial • Credits • Privacy
Run
Debug
Stop
Share
Save
{ } Beautify
main.py
F9
1 from itertools import product
2
3 def letterCombinations(digits):
4 if not digits:
5 return []
6
7 phone = {'2': ['a', 'b', 'c'],
8 '3': ['d', 'e', 'f'],
9 '4': ['g', 'h', 'i'],
10 '5': ['j', 'k', 'l'],
11 '6': ['m', 'n', 'o'],
12 '7': ['p', 'q', 'r', 's'],
13 '8': ['t', 'u', 'v'],
14 '9': ['w', 'x', 'y', 'z']}
15
16 return [''.join(p) for p in product(*(phone[d] for d in digits))]
17
18 # Test the function with the example input
19 digits = "23"
20 print(letterCombinations(digits))
21
22
23
input
['ad', 'ae', 'af', 'bd', 'be', 'bf', 'cd', 'ce', 'cf']
...Program finished with exit code 0
Press ENTER to exit console.


https://www.onlinegdb.com/online_c++_compiler
OnlineGDB beta
online compiler and debugger for c/c++
Welcome, Abi S R
Create New Project
My Projects
Classroom new
Learn Programming
Programming Questions
Jobs new
Upgrade
Logout
Learn Python with KodeKloud
About • FAQ • Blog • Terms of Use • Contact Us •
GDB Tutorial • Credits • Privacy
Run
Debug
Stop
Share
Save
{ } Beautify
main.py
def threeSum(nums):
nums.sort()
res = []
for i in range(len(nums)-2):
if i > 0 and nums[i] == nums[i-1]:
continue
l, r = i+1, len(nums)-1
while l < r:
total = nums[i] + nums[l] + nums[r]
if total < 0:
l += 1
elif total > 0:
r -= 1
else:
res.append([nums[i], nums[l], nums[r]])
while l < r and nums[l] == nums[l+1]:
l += 1
while l < r and nums[r] == nums[r-1]:
r -= 1
l += 1
r -= 1
return res
nums = [-1, 0, 1, 2, -1, -4]
print(threeSum(nums))
input
[[-1, -1, 2], [-1, 0, 1]]
...Program finished with exit code 0
Press ENTER to exit console.

Run | Debug | Stop | Share | Save | { } Beautify

main.py

```python
def remove_nth_from_end(head, n):
    dummy = ListNode(0, head)
    first = dummy
    second = dummy
    for _ in range(n + 1):
        first = first.next
    while first:
        first = first.next
        second = second.next
    second.next = second.next.next
    return dummy.next
def list_to_linked_list(lst):
    if not lst:
        return None
    head = ListNode(lst[0])
    current = head
    for value in lst[1:]:
        current.next = ListNode(value)
        current = current.next
    return head

def linked_list_to_list(node):
    result = []
    while node:
        result.append(node.val)
        node = node.next
    return result
head = list_to_linked_list([1, 2, 3, 4, 5])
n = 2
result = remove_nth_from_end(head, n)
print(linked_list_to_list(result))

```

input

```
['ad', 'ae', 'af', 'bd', 'be', 'bf', 'cd', 'ce', 'cf']


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

Run | Debug | Stop | Share | Save | { } Beautify

main.py

```python
def fourSum(nums, target):
    nums.sort()
    results = []
    n = len(nums)
    for i in range(n - 3):
        if i > 0 and nums[i] == nums[i - 1]:
            continue
        for j in range(i + 1, n - 2):
            if j > i + 1 and nums[j] == nums[j - 1]:
                continue
            left = j + 1
            right = n - 1
            while left < right:
                total = nums[i] + nums[j] + nums[left] + nums[right]
                if total == target:
                    results.append([nums[i], nums[j], nums[left], nums[right]])
                    while left < right and nums[left] == nums[left + 1]:
                        left += 1
                    while left < right and nums[right] == nums[right - 1]:
                        right -= 1
                    left += 1
                    right -= 1
                elif total < target:
                    left += 1
                else:
                    right -= 1
    return results
nums = [1, 0, -1, 0, -2, 2]
target = 0
print(fourSum(nums, target))
```

input

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


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

https://www.onlinegdb.com/online_c++_compiler

OnlineGDB beta
online compiler and debugger for c/c++

Welcome, Abi S R

Create New Project
My Projects
Classroom new
Learn Programming
Programming Questions
Jobs new
Upgrade
Logout

Learn Python with
KodeKloud

Run | Debug | Stop | Share | Save | { } Beautify

main.py

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

def removeNthFromEnd(head, n):
    dummy = ListNode(0)
    dummy.next = head
    length = 0
    first = head
    while first:
        length += 1
        first = first.next
    length -= n
    first = dummy
    while length > 0:
        length -= 1
        first = first.next
    first.next = first.next.next
    return dummy.next

```

input

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