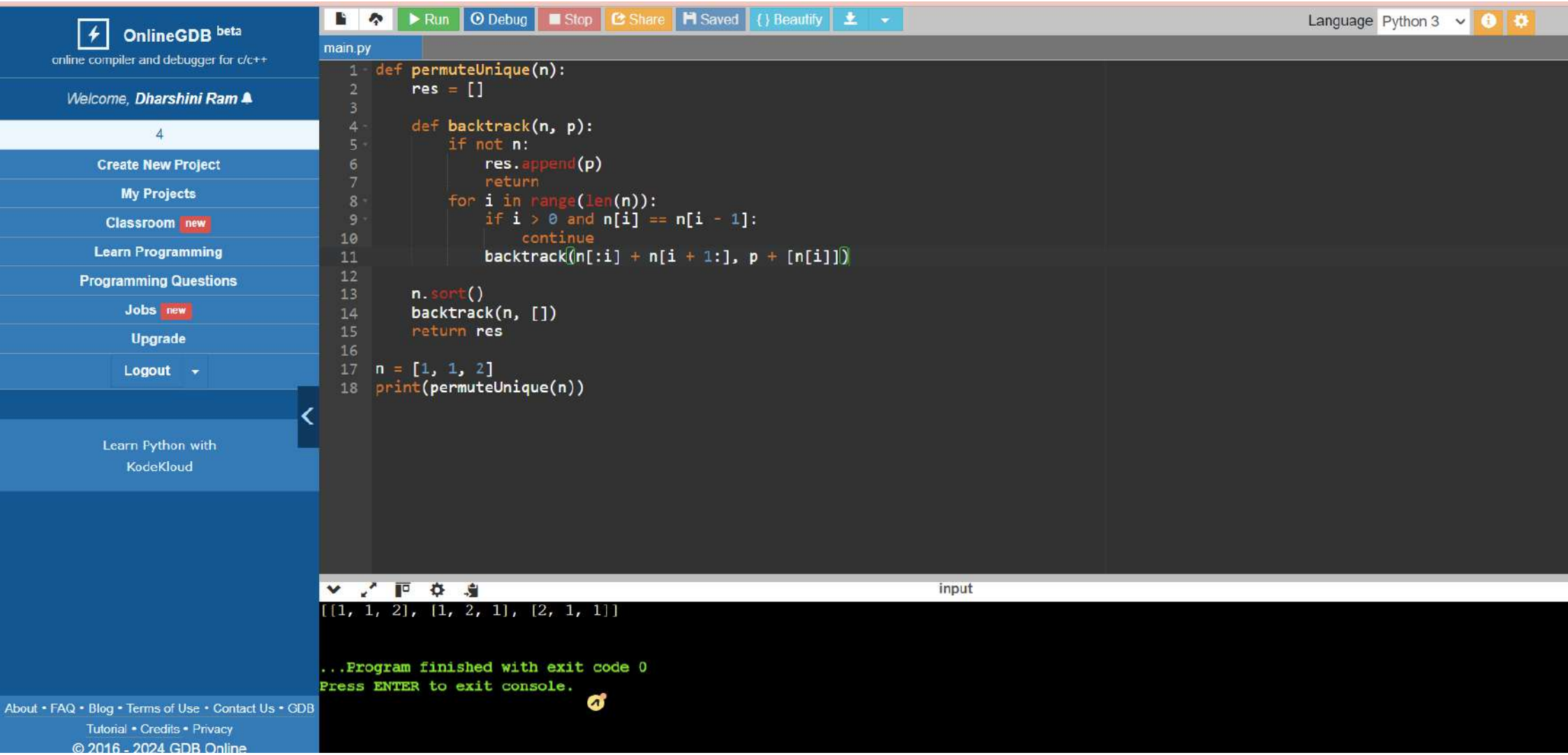
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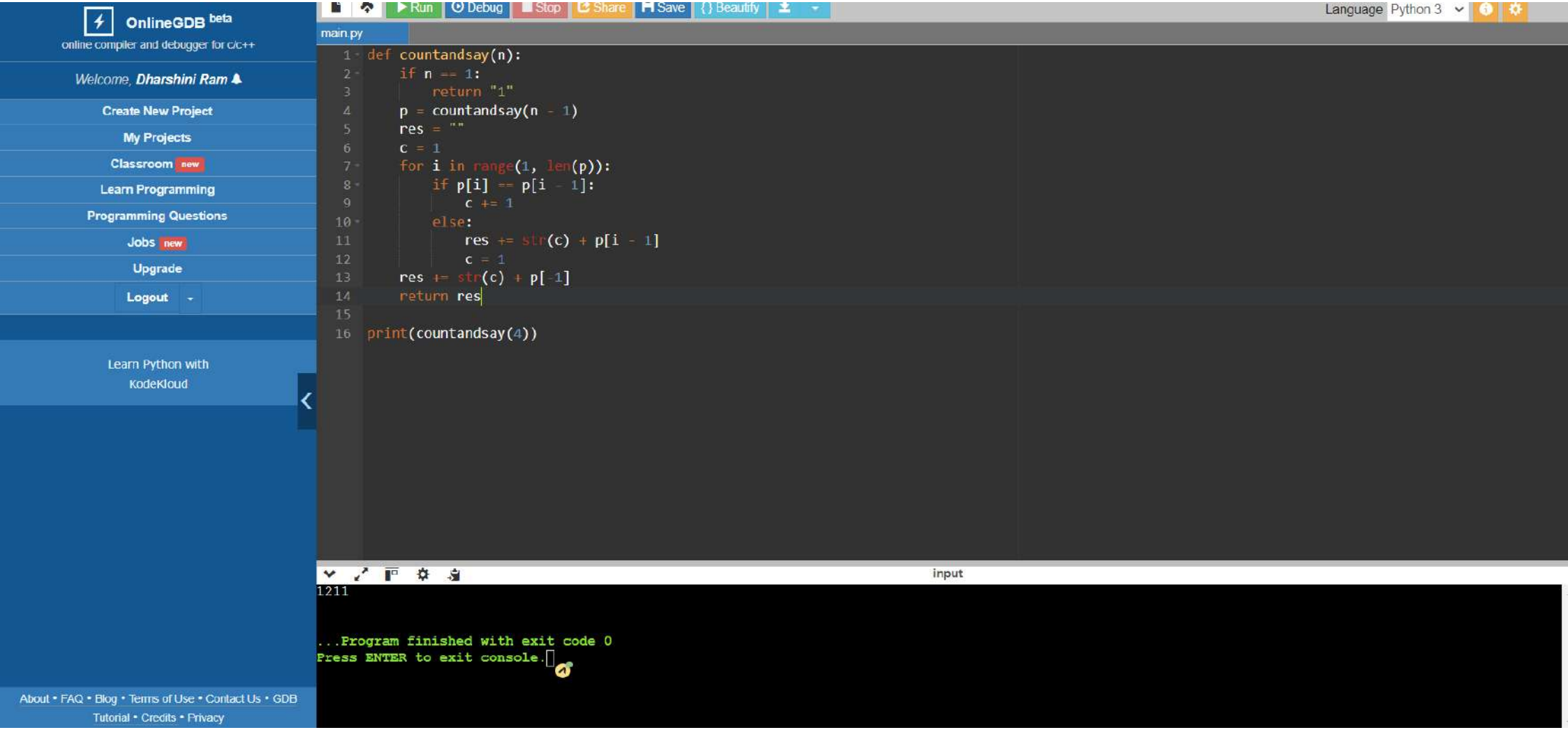
Language
Python 3
main.py
def permuteUnique(n):
res = []
def backtrack(n, p):
if not n:
res.append(p)
return
for i in range(len(n)):
if i > 0 and n[i] == n[i - 1]:
continue
backtrack(n[:i] + n[i + 1:], p + [n[i]])
n.sort()
backtrack(n, [])
return res
n = [1, 1, 2]
print(permuteUnique(n))
input
[[1, 1, 2], [1, 2, 1], [2, 1, 1]]
...Program finished with exit code 0
Press ENTER to exit console.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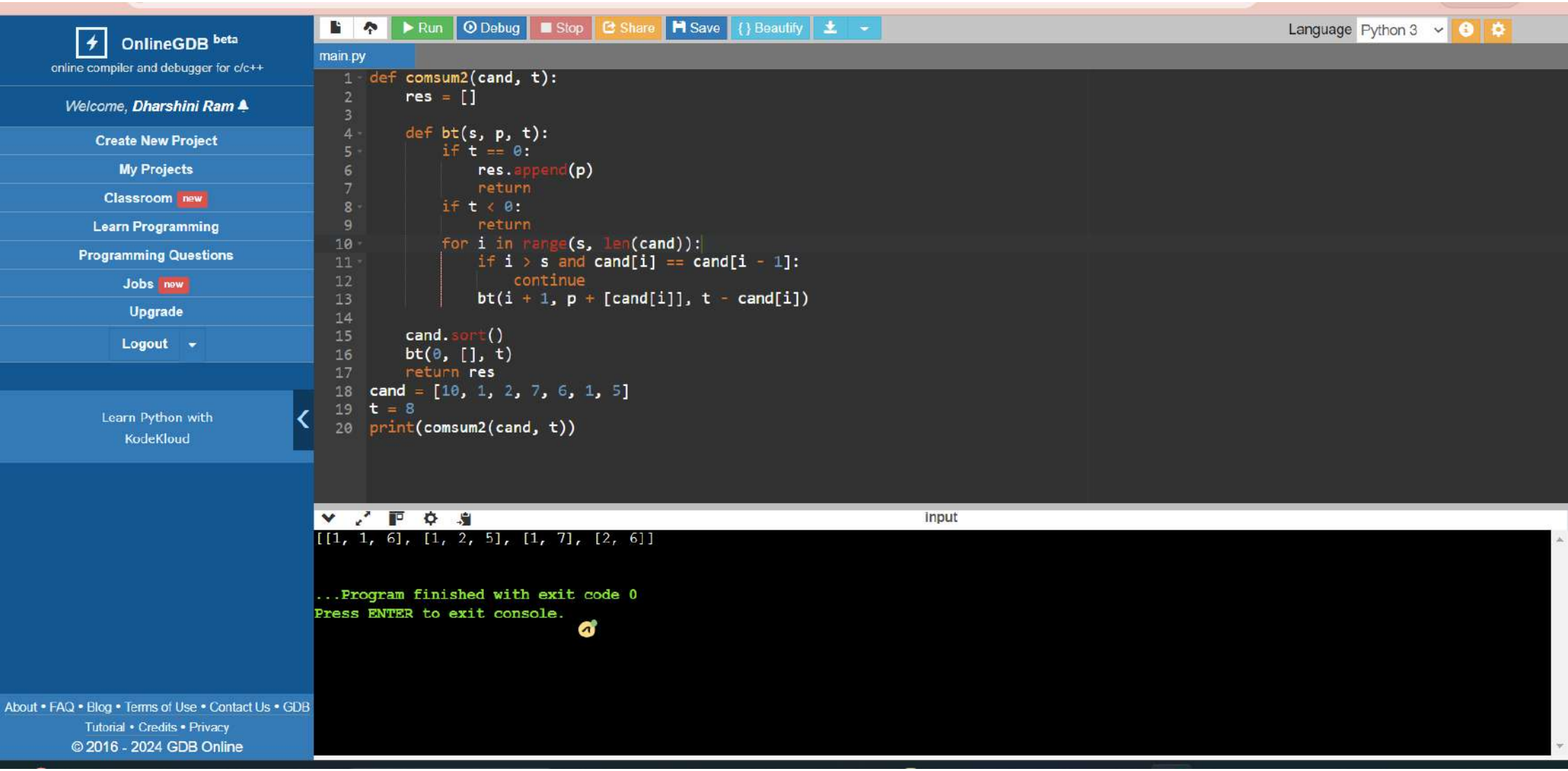
Language Python 3
main.py
def countandsay(n):
if n == 1:
return "1"
p = countandsay(n - 1)
res = ""
c = 1
for i in range(1, len(p)):
if p[i] == p[i - 1]:
c += 1
else:
res += str(c) + p[i - 1]
c = 1
res += str(c) + p[-1]
return res
print(countandsay(4))
input
1211
...Program finished with exit code 0
Press ENTER to exit console.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Language Python 3
main.py
def comsum2(cand, t):
res = []
def bt(s, p, t):
if t == 0:
res.append(p)
return
if t < 0:
return
for i in range(s, len(cand)):
if i > s and cand[i] == cand[i - 1]:
continue
bt(i + 1, p + [cand[i]], t - cand[i])
cand.sort()
bt(0, [], t)
return res
cand = [10, 1, 2, 7, 6, 1, 5]
t = 8
print(comsum2(cand, t))
Input
[[1, 1, 6], [1, 2, 5], [1, 7], [2, 6]]
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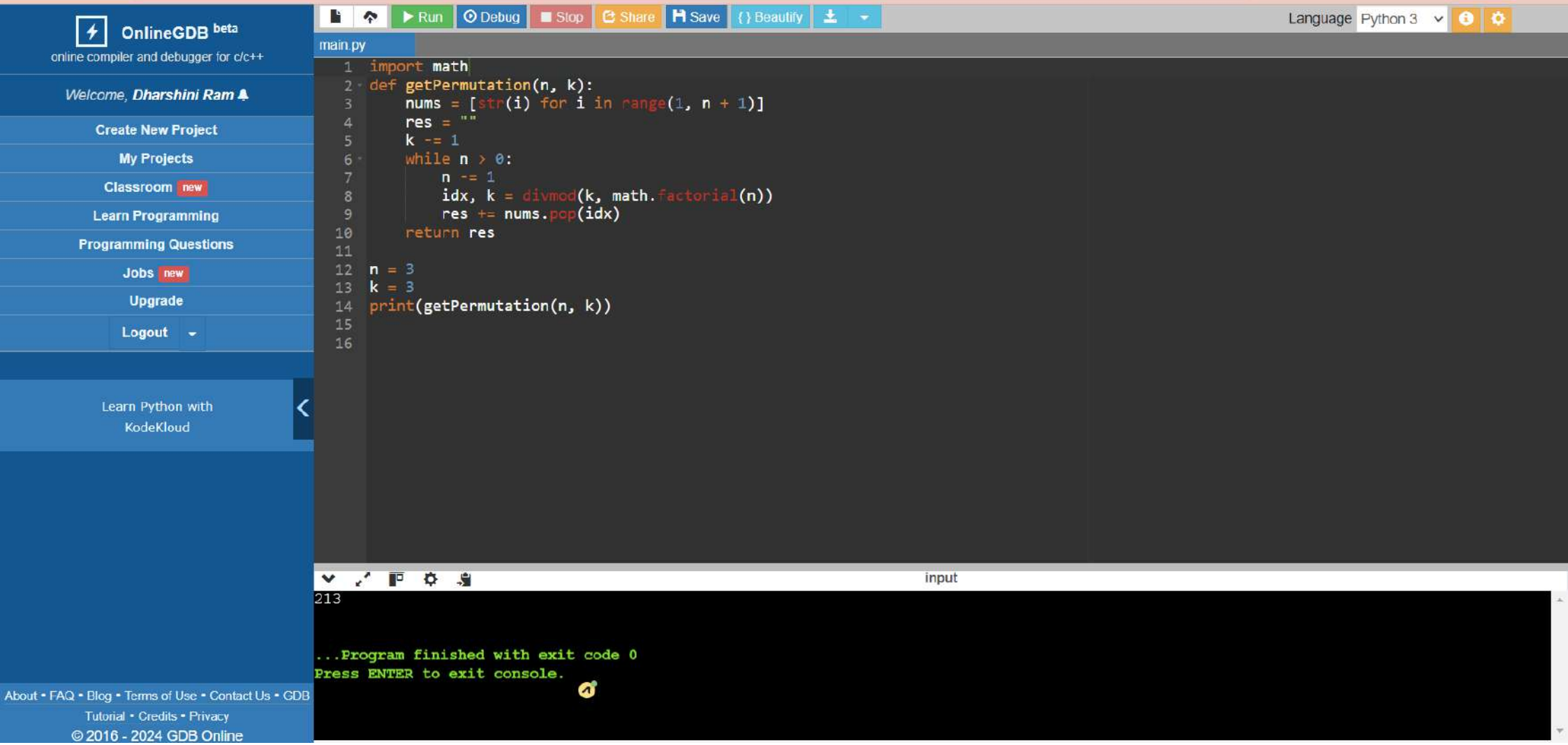
Language
Python 3
main.py
def comsum(cand, t):
res = []
def bt(s, p, t):
if t == 0:
res.append(p)
return
if t < 0:
return
for i in range(s, len(cand)):
bt(i, p + [cand[i]], t - cand[i])
cand.sort()
bt(0, [], t)
return res
cand = [2, 3, 6, 7]
t = 7
print(comsum(cand, t))
input
[[2, 2, 3], [7]]
...Program finished with exit code 0
Press ENTER to exit console.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Language Python 3
main.py
import math
def getPermutation(n, k):
nums = [str(i) for i in range(1, n + 1)]
res = ""
k -= 1
while n > 0:
n -= 1
idx, k = divmod(k, math.factorial(n))
res += nums.pop(idx)
return res
n = 3
k = 3
print(getPermutation(n, k))
input
213
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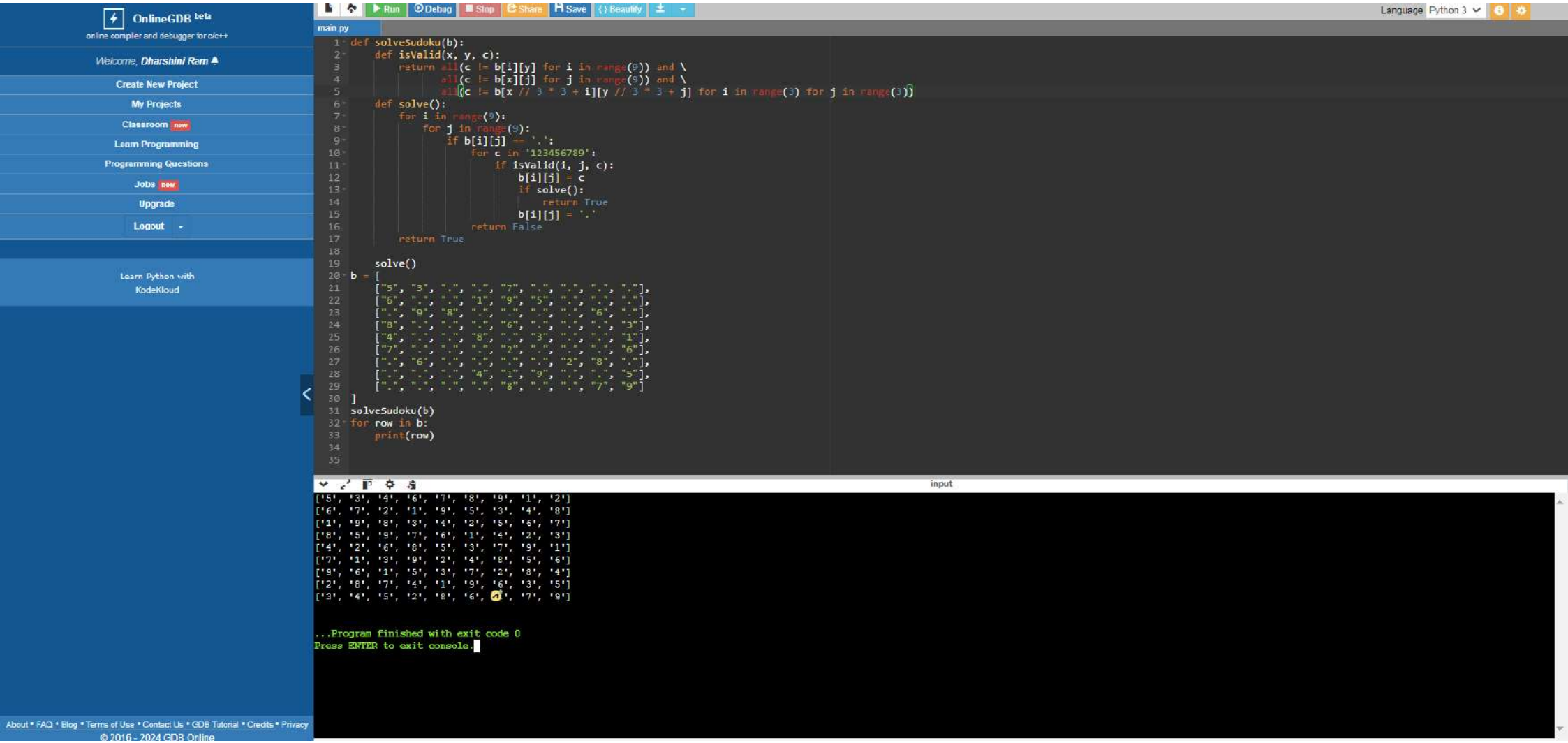
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Language Python 3
main.py
def solveSudoku(b):
def isValid(x, y, c):
return all(c != b[i][y] for i in range(9)) and \
all(c != b[x][j] for j in range(9)) and \
all(c != b[x // 3 * 3 + i][y // 3 * 3 + j] for i in range(3) for j in range(3))
def solve():
for i in range(9):
for j in range(9):
if b[i][j] == '.':
for c in '123456789':
if isValid(i, j, c):
b[i][j] = c
if solve():
return True
b[i][j] = '.'
return False
return True
solve()
b = [
["5", "3", ".", ".", "7", ".", ".", ".", "."],
["6", ".", ".", "1", "9", "5", ".", ".", "."],
[".", "9", "8", ".", ".", ".", ".", "6", "."],
["8", ".", ".", ".", "6", ".", ".", ".", "3"],
["4", ".", ".", "8", ".", "3", ".", ".", "1"],
["7", ".", ".", ".", "2", ".", ".", ".", "6"],
[".", "6", ".", ".", ".", ".", "2", "8", "."],
[".", ".", ".", "4", "1", "9", ".", ".", "5"],
[".", ".", ".", ".", "8", ".", ".", "7", "9"]
]
solveSudoku(b)
for row in b:
print(row)
input
['5', '3', '4', '6', '7', '8', '9', '1', '2']
['6', '7', '2', '1', '9', '5', '3', '4', '8']
['1', '9', '8', '3', '4', '2', '5', '6', '7']
['8', '5', '9', '7', '6', '1', '4', '2', '3']
['4', '2', '6', '8', '5', '3', '7', '9', '1']
['7', '1', '3', '9', '2', '4', '8', '5', '6']
['9', '6', '1', '5', '3', '7', '2', '8', '4']
['2', '8', '7', '4', '1', '9', '6', '3', '5']
['3', '4', '5', '2', '8', '6', '1', '7', '9']
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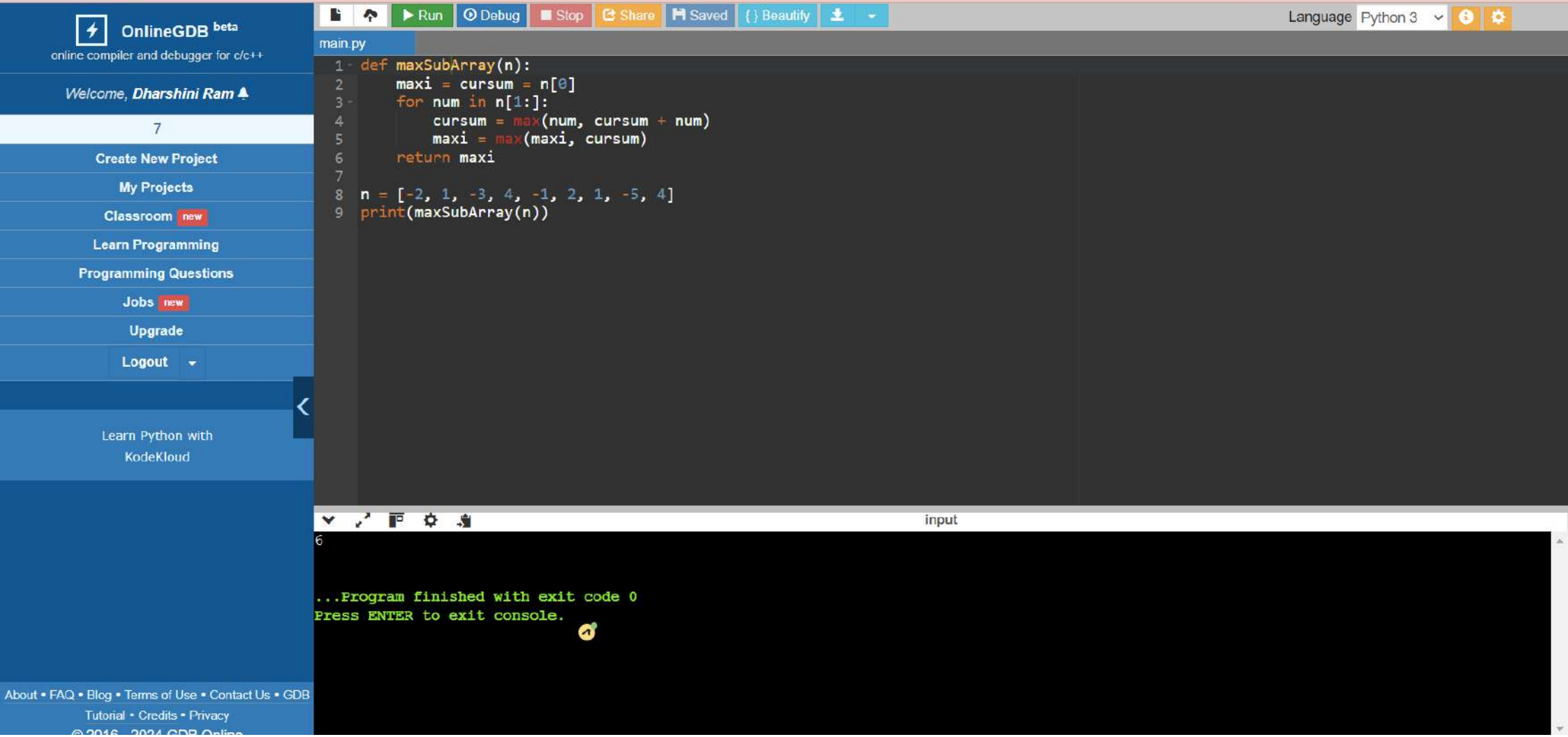
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Language Python 3
main.py
1 def maxSubArray(n):
2 maxi = cursum = n[0]
3 for num in n[1:]:
4 cursum = max(num, cursum + num)
5 maxi = max(maxi, cursum)
6 return maxi
7
8 n = [-2, 1, -3, 4, -1, 2, 1, -5, 4]
9 print(maxSubArray(n))
input
6
...Program finished with exit code 0
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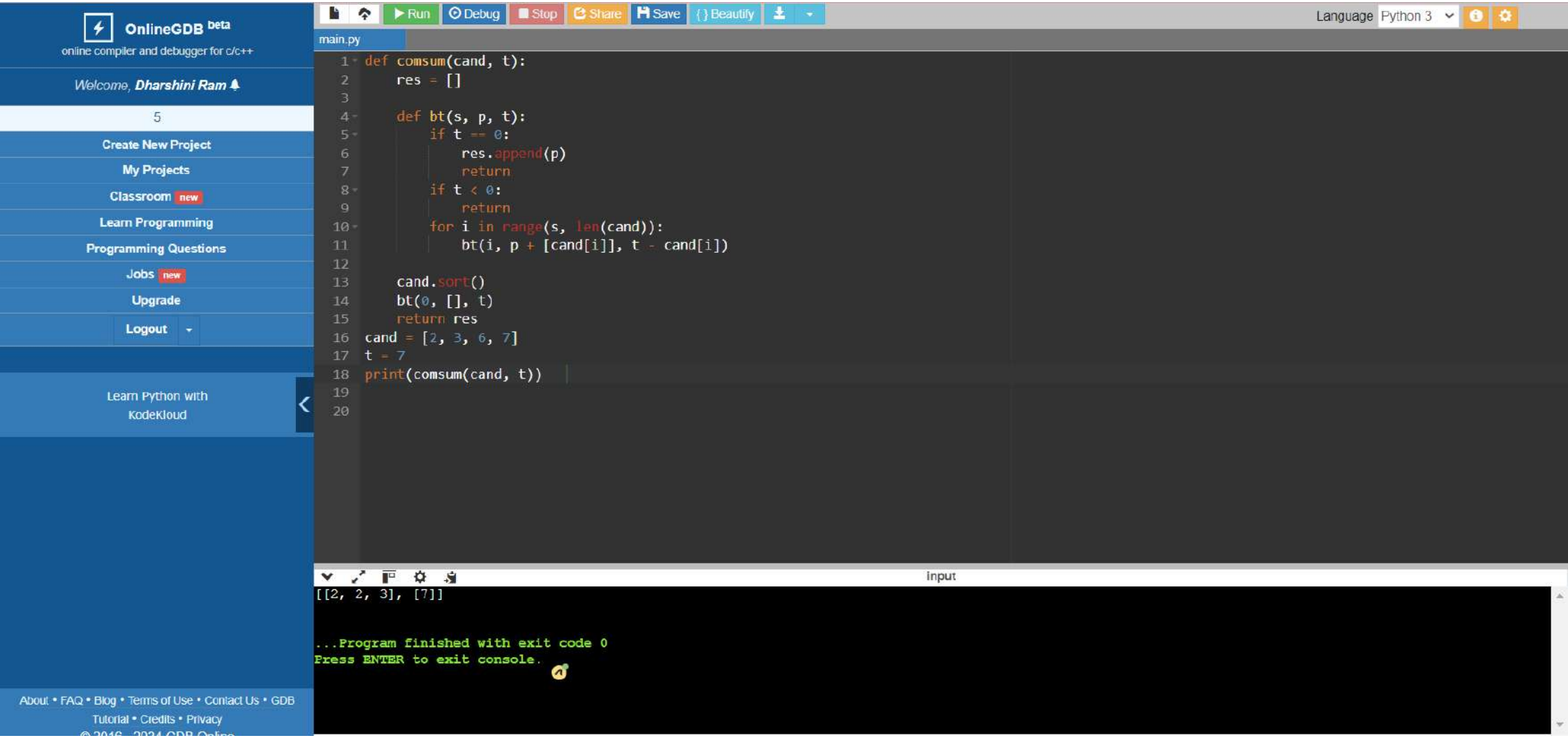
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res = []
def bt(s, p, t):
if t == 0:
res.append(p)
return
if t < 0:
return
for i in range(s, len(cand)):
bt(i, p + [cand[i]], t - cand[i])
cand.sort()
bt(0, [], t)
return res
cand = [2, 3, 6, 7]
t = 7
print(comsum(cand, t))
Input
[[2, 2, 3], [7]]
...Program finished with exit code 0
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