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Run

Output

Clear

```
1- def maxSubArray(nums):
2   max_sum = current_sum = nums[0]
3-   for num in nums[1:]:
4       current_sum = max(num, current_sum + num)
5       max_sum = max(max_sum, current_sum)
6   return max_sum
7 nums = [-2, 1, -3, 4, -1, 2, 1, -5, 4]
8 print(maxSubArray(nums))
```

```
6
=== Code Execution Successful ===
```

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Output

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```
1- def removeElement(nums, val):
2     nums[:] = [x for x in nums if x != val]
3     return len(nums)
4 nums = [3, 2, 2, 3]
5 val = 3
6 print(removeElement(nums, val))
```

```
2


=== Code Execution Successful ===
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

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```
1 def countAndSay(n):
2     if n == 1:
3         return "1"
4     prev = countAndSay(n - 1)
5     result = ""
6     count = 1
7     for i in range(1, len(prev)):
8         if prev[i] == prev[i - 1]:
9             count += 1
10        else:
11            result += str(count) + prev[i - 1]
12            count = 1
13    result += str(count) + prev[-1]
14    return result
15 print(countAndSay(4))
```

Output

Clear

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```
1 def permuteUnique(nums):
2     res = []
3
4     def backtrack(nums, path):
5         if not nums:
6             res.append(path)
7             return
8         for i in range(len(nums)):
9             if i > 0 and nums[i] == nums[i - 1]:
10                 continue
11             backtrack(nums[:i] + nums[i + 1:], path + [nums[i]])
12
13     nums.sort()
14     backtrack(nums, [])
15     return res
16 nums = [1, 1, 2]
17 print(permuteUnique(nums))
```

Output

Clear


```
[[1, 1, 2], [1, 2, 1], [2, 1, 1]]
=== Code Execution Successful ===
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JS

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Run

1 def combinationSum2(candidates, target):

2 res = []

3

4 def backtrack(start, path, target):

5 if target == 0:

6 res.append(path)

7 return

8 if target < 0:

9 return

10 for i in range(start, len(candidates)):

11 if i > start and candidates[i] == candidates[i - 1]:

12 continue

13 backtrack(i + 1, path + [candidates[i]], target - candidates[i])

14

15 candidates.sort()

16 backtrack(0, [], target)

17 return res

18 candidates = [10, 1, 2, 7, 6, 1, 5]

19 target = 8

20 print(combinationSum2(candidates, target))

Output

Clear

[[1, 1, 6], [1, 2, 5], [1, 7], [2, 6]]

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Run

```
1 def combinationSum(candidates, target):
2     res = []
3
4     def backtrack(start, path, target):
5         if target == 0:
6             res.append(path)
7             return
8         if target < 0:
9             return
10        for i in range(start, len(candidates)):
11            backtrack(i, path + [candidates[i]], target - candidates[i])
12
13    candidates.sort()
14    backtrack(0, [], target)
15    return res
16 candidates = [2, 3, 6, 7]
17 target = 7
18 print(combinationSum(candidates, target))
```

Output

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[[2, 2, 3], [7]]

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Run

```
1 def combinationSum(candidates, target):
2     res = []
3
4     def backtrack(start, path, target):
5         if target == 0:
6             res.append(path)
7             return
8         if target < 0:
9             return
10        for i in range(start, len(candidates)):
11            backtrack(i, path + [candidates[i]], target - candidates[i])
12
13    candidates.sort()
14    backtrack(0, [], target)
15    return res
16 candidates = [2, 3, 6, 7]
17 target = 7
18 print(combinationSum(candidates, target))
```

Output

Clear

[[2, 2, 3], [7]]

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```
1 def solveSudoku(board):
2     def isValid(x, y, c):
3         return all(c != board[i][y] for i in range(9)) and \
4             all(c != board[x][j] for j in range(9)) and \
5             all(c != board[x // 3 * 3 + i][y // 3 * 3 + j] for i in range(3)
6                 for j in range(3))
7     def solve():
8         for i in range(9):
9             for j in range(9):
10                if board[i][j] == '.':
11                    for c in '123456789':
12                        if isValid(i, j, c):
13                            board[i][j] = c
14                            if solve():
15                                return True
16                            board[i][j] = '.'
17                return False
18    return True
19
20 solve()
21 board = [
22     ["5", "3", ".", ".", "7", ".", ".", ".", "."],
23     ["6", ".", ".", "1", "9", "5", ".", ".", "."],
24     [".", "9", "8", ".", ".", ".", "6", ".", "."],
25     ["8", ".", ".", ".", "6", ".", ".", ".", "3"]]
```

```
['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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