maximum sub array - GDB onlir

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maximum sub array

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main.py

```python
def maxSubArray(nums):
    max_sum=current_sum=nums[0]
    for num in nums[1:]:
        current_sum=max(num, current_sum+num)
        max_sum=max(max_sum, current_sum)
    return max_sum

nums= [-2,1,-3,4,-1,2,1,-5,4]
print(maxSubArray(nums))

```

input

```
6


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```


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main.py

```python
def combi(candi,target):
    res=[]

    def backtrack(start, path, target):
        if target==0:
            res.append(path)
            return
        if target<0:
            return
        for i in range(start, len(candi)):
            if i>start and candi[i]==candi[i-1]:
                continue
            backtrack(i+1, path+[candi[i]],target-candi[i])

    candi.sort()
    backtrack(0,[],target)
    return res

candi=[10,1,2,7,6,1,5]
target=8
print(combi(candi,target))

```

input

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


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```

permutations 1 - GDB online D

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main.py

```python
def permute(nums):
    res=[]

    def backtrack(nums, path):
        if not nums:
            res.append(path)
            return
        for i in range(len(nums)):
            if i>0 and nums[i]==nums[i-1]:
                continue
            backtrack(nums[:i]+nums[i+1:], path+[nums[i]])

    nums.sort()
    backtrack(nums,[])
    return res

nums=[1,1,2]
print(permute(nums))

```

input

```
[[1, 1, 2], [1, 2, 1], [2, 1, 1]]


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```


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solve sudoku

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main.py

```
def solveSudoku(board):
    def isValid(x, y, c):
        return all(c!=board[i][y] for i in range(9))and \
               all(c!=board[x][j] for j in range(9))and \
               all(c!=board[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 board[i][j]=='.':
                    for c in '123456789':
                        if isValid(i,j,c):
                            board[i][j]=c
                            if solve():
                                return True
                            board[i][j]='.'
                    return False
        return True
    solve()
board = [
    ["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"],
```

input

```
['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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main.py

```
1  import math
2
3  def permutation(n,k):
4      nums=[str(i) for i in range(1,n+1)]
5      res= ""
6      k -= 1
7      while n>0:
8          n -= 1
9          index,k=divmod(k, math.factorial(n))
10         res +=nums.pop(index)
11     return res
12
13 n=3
14 k=3
15 print(permutation(n, k))
16
17
```

input

```
213


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```


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remove element - GDB online

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remove element

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main.py

```
1  def removeElement(nums, val):
2      nums[:] = [x for x in nums if x != val]
3      return len(nums)
4
5  nums = [2,3,3,2]
6  val = 3
7  print(removeElement(nums, val))
8
9
10
```

input

```
2


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```

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main.py

```python
def combination(candi, target):
    res=[]

    def backtrack(start, path, target):
        if target==0:
            res.append(path)
            return
        if target<0:
            return
        for i in range(start, len(candi)):
            backtrack(i, path+ [candi[i]], target-candi[i])

    candi.sort()
    backtrack(0,[],target)
    return res

candi=[2,3,6,7]
target=7
print(combination(candi, target))

```

input

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


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```

count and say - GDB online De

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main.py

```python
def countAndSay(n):
    if n==1:
        return "1"
    prev=countAndSay(n - 1)
    res= ""
    count=1
    for i in range(1, len(prev)):
        if prev[i]==prev[i - 1]:
            count += 1
        else:
            res += str(count) + prev[i - 1]
            count=1
    res += str(count)+prev[-1]
    return res

print(countAndSay(4))
```

input

```
1211


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```


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