

Solution

Sunday, 7 May 2023

12:49 PM

nums = [-2, 1, -3, 4, -1, 2, 1, -5, 4]

currentSum = 0
maxSubstringSum = nums[0]

Approach:-

- (1) Initialize the currentSum = 0
- (2) Initialize the maxSubstringSum = 1st element of nums
- (3) Iterate over nums:
- (4) Check if currentSum is getting negative
- (5) If YES → re-initialize currentSum = 0
- (6) If NO → keep on adding the current nums' element to currentSum
- (7) After loop:
store the max of (maxSubstringSum & currentSum)
to maximumSubstringSum.
- (8) Return maximumSubstringSum.

```
nums = [-2, 1, -3, 4, -1, 2, 1, -5, 4]
def answer(nums):
    maximumSubstringSum = nums[0]
```

```
currentSum = 0
for i in nums:
    if currentSum < 0:
        currentSum = 0
    currentSum += i
    maximumSubstringSum =
max(maximumSubstringSum, currentSum)

    return maximumSubstringSum
print(answer(nums))
```