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STUDENT REPORT

3827

DETAILS

PALAK YADAV

Roll Number

3BR23AI116

EXPERIMENT

Title

SUB ARRAY WITH MAX SUM

Description

You are given a list of integers, and your task is to find the subarray with the maximum sum. Write a function or method to solve this problem efficiently and return the maximum sum.

Input:

n: the no of elements in the array

nums (List of integers): A list of integers (1 \leq len(nums) \leq 10^5)

Sample input:

8

-1 2 3 10 -4 7 2 -5

Sample output:

20

Explanation:

The max subarry sum is 20. The subarray is [2,3,10,-4,7,2]

Source Code:

```
nums=[-1, 2, 3, 10, -4, 7, 2, -5]
def max_subarrays_sum(nums):
    max_sums=float('-inf')
    current_sum=0
    for num in nums:
        current_sum+=num
        if current_sum>max_sum:
            max_sum=current_sum
        if current_sum<0:</pre>
            current_sum=0
    return max_sum
max_sum=max_subarrays_sum(nums)
print(max_sum)
```

3BR23Al116-sub array with max sum

RESULT

0 / 5 Test Cases Passed | 0 %

es Passed | 0 %