PRICE

OBJEC

MPB

MPB



STUDENT REPORT

Biec

DÉTAILS

Name

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TEMPBTech-ECE020

EXPERIMEN

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.

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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:

```
def max_subarray_sum(nums):
    max_sum = float('-inf')
    current_sum = 0
    for num in nums:
        current_sum += num
                                                                                                                            18 E/S
        if current_sum > max_sum:
            max_sum = current_sum
        if current_sum < 0:</pre>
            current_sum = 0
    return max_sum
n = int(input().strip())
nums = list(map(int, input().strip().split()))
result = max_subarray_sum(nums)
print(result)
```

RESULT

5 / 5 Test Cases Passed | 100 %