



STUDENT REPORT

DETAILS

Name

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Roll Number

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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 ($1 \leq \text{len}(\text{nums}) \leq 10^5$)

Sample input:

8

-1 2 3 10 -4 7 2 -5

Sample output:

20

Explanation:

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

Source Code:

```
def find_farthest_coordinate(arr):
    current_position = 0
    max_distance = 0

    for i in range(len(arr)):
        current_position += arr[i]
        max_distance = max(max_distance, abs(current_position))

    return max_distance
arr = list(map(int, input().split()))
result = find_farthest_coordinate(arr)
print(result)
```

RESULT

0 / 5 Test Cases Passed | 0 %

380%

191 38%

1091 3%

10091 3
e.23880

100001
4e.2380

138809
380230

12388091
1 380%