

STUDENT REPORT

DETAILS

Name:

S ASIF HUSSAIN

EXPERIMENT

Title 300

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 <= len(nums) $<=10^5$

Sample input:

8

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-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]

CA086 38R23C RESULT

5 / 5 Test Cases Passed | 100 %

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Roll Number
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Source Code: Roso 38423 (Roso 38423) (Roso 3
                                                                                            curr_max = nums[0]
   BRY
                                                                                           for num in nums[1:]:
                                                                                                                            curr_max = max(num, curr_max + num)
                                                                                                                           max_so_far = max(max_so_far, curr_max)
                                                                                             return max_so_far
                                                          n = int(input())
                                                          nums = list(map(int, input().split()))
                                                          max_sum = max_subarray_sum(nums)
                                                          print(max_sum)
```