DETAILS

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Roll Number

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EXPERIMENT

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)

2008

Sample input:

-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_so_far = nums[0] curr_max = nums[0] 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)

RESULT

5 / 5 Test Cases Passed | 100 %