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STUDENT REPORT

JBZ

DETAILS

K DHANUSH KUMAR

Roll Number

KUB23CSE055

TIBIT **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]

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```
def max_subarray_sum(n, nums):
        if n == 0:
            return 0
        max_current = max_global = nums[0]
        for i in range(1, n):
            max_current = max(nums[i], max_current + nums[i])
            if max_current > max_global:
                max_global = max_current
        return max_global
    n = int(input())
    nums = list(map(int,input().split()))
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    print(max_subarray_sum(n, nums))
RESULT
  5 / 5 Test Cases Passed | 100 \%
```