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## STUDENT REPORT

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## DETAILS

ABDUL KHUDDUS KHAZI

Roll Number >

KUB23CSE002

## 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.

002

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

-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_sum = current_sum = nums[0]
       for i in range(1, n):
           current_sum = max(nums[i], current_sum + nums[i])
           max_sum = max(max_sum, current_sum)
        return max_sum
   # Sample input
   n = int(input())
   nums = list(map(int,input().split()))
   # Function call and output
                                                                                                        223C5E002 LUB235
    result = max_subarray_sum(n, nums)
    print(result) # Output: 20
RESULT
 5 / 5 Test Cases Passed | 100 %
```