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## STUDENT REPORT

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## DETAILS

Name, Sol

**B SHRINIVAS** 

Roll Number

KUB23CSE018

## 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.

Input:

n: the no of elements in the array

nums (List of integers): A list of integers (1 <= len(nums) <= 10^5)

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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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```
KUB23CSE018-sub array with max sum
    def max_subarray_sum(nums):
        max_sum = float('-inf') # Initialize to the smallest possible number
        current_sum = 0
        for num in nums:
            current_sum += num # Add the current number to the current sum
            if current_sum > max_sum:
                max_sum = current_sum # Update max_sum if current_sum is greater
            if current_sum < 0:</pre>
                current_sum = 0 # Reset current_sum if it becomes negative
        return max_sum
    # Example usage
    n = int(input().strip())
    nums = list(map(int, input().strip().split()))
    result = max_subarray_sum(nums)
                                                                                                           2335E018 LUB235
    print(result)
RESULT
 5 / 5 Test Cases Passed | 100 \%
```