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.

SIZAE

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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

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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 = float('-inf')
        max_ending_here = 0
        for num in nums:
            max_ending_here += num
            if max_ending_here > max_so_far:
                max\_so\_far = max\_ending\_here
            if max_ending_here < 0:</pre>
                max_ending_here = 0
        return max_so_far
    import sys
    input = sys.stdin.read
    data = input().strip().splitlines()
    n = int(data[0])
    nums = list(map(int, data[1].split()))
    result = max_subarray_sum(nums)
    print(result)
RESULT
```

5 / 5 Test Cases Passed | 100 %