DETAILS Name (**ALFISHA** Roll Number KUB23CSE006 **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) 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]

Source Code:

def max_subarray_sum(nums):
 max_so_far = nums[0]
 curr_max = 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 %

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