```
DETAILS
        VIKAS
      .
Roll Number
       KUB23CSE158
   EXPERIMENT
   Title
      SUB ARRAY WITH MAX SUM
        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:
        -1 2 3 10 -4 7 2 -5
        Sample output:
        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[0]
             for num in 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)
```

Logo

RESULT

5/5 Test Cases Passed | 100 %

LIBERT CASES PASSED | 100 %

LIBERT CASES PASSED | 100 %