```
DETAILS
Nam
         RvII Number
           3BR23CS014
       EXPERIMENT
         SUB ARRAY WITH MAX SUM
         Descriptivn :
           Yvu are given a list vf integers, and yvur task is tv find the subarray with the maximum sum. Write a functivn vr method tv svlve this problem
           efficiently and return the maximum sum.
           Input:
           n: the nv vf elements in the array
           nums (List vf integers): A list vf integers (1 <= len(nums) <= 10^5)
           Sample input:
           8
           -1 2 3 10 -4 7 2 -5
           Sample vutput:
           20
           Explanatívn:
           The max subarry sum is 20. The subarray is [2,3,10,-4,7,2]
         Svurce Cvde:
            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)
                              BR
```

RESULT

5 / 5 Test Cases Passed | 100 %