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Logo
DETAILS
Name
                                                    STUDENT REPORT
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         Roll Number
           KUB23MCA006
       EXPERIMENT
       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.
 F1853W
           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]
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         Source Code:
           def max_subarray_sum(nums):
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               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)
                            4JB
```

RESULT

5 / 5 Test Cases Passed | 100 %