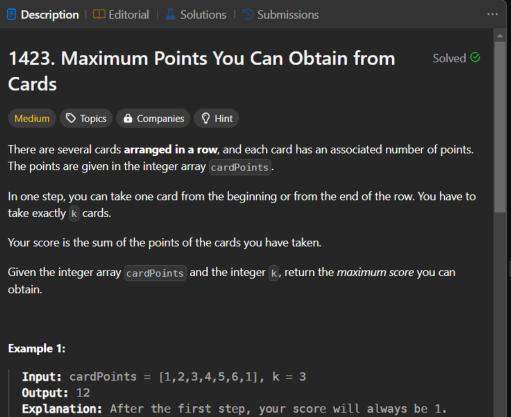
```
■ Description | ■ Editorial | ▲ Solutions | ⑤ Submissions
                                                                                       </>Code
                                                                                      C++ ∨ Auto
53. Maximum Subarray
                                                                       Solved ⊘
                                                                                            class Solution
         ♥ Topics
                   Companies
                                                                                                int maxSubArray(std::vector<int>& nums)
Given an integer array nums, find the subarray with the largest sum, and return its sum.
                                                                                                    if (nums.empty())
                                                                                                        return 0:
Example 1:
                                                                                                    int max sum=nums[0];
  Input: nums = [-2,1,-3,4,-1,2,1,-5,4]
                                                                                                    int current=nums[0];
                                                                                                    for (int i=1;i<nums.size();i++)</pre>
  Output: 6
  Explanation: The subarray [4,-1,2,1] has the largest sum 6.
                                                                                                        current=max(nums[i], current+nums[i]);
                                                                                                        max_sum=max(max_sum, current);
Example 2:
  Input: nums = [1]
                                                                                                    return max sum;
  Output: 1
  Explanation: The subarray [1] has the largest sum 1.
F---- --- 1- 2-
```



However, choosing the rightmost card first will maximize your total

score. The optimal strategy is to take the three cards on the

right, giving a final score of 1 + 6 + 5 = 12.

```
Code
C++ ∨ Auto
   1 #include <vector>
      #include <algorithm>
      class Solution
          int maxScore(vector<int> &cardPoints, int k)
              int sum=0;
              int current=0;
              int n=cardPoints.size();
              for (int i=0;i<n;i++)
                  sum += cardPoints[i];
              for (int i=0;i<n-k;i++)
                  current+=cardPoints[i];
              int min sum=current;
              for (int i=n-k;i<n;i++)
                  current+=cardPoints[i]-cardPoints[i+k-n];
                  min sum=min(min sum, current);
              return sum-min sum;
```