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Kadane Max Sum Subarray C++
#include <iostream>
using namespace std;
int maxSubArraySum(const int arr[], int n) {
  int currentSum = arr[0]; // Initialize current sum
and overall sum
  int overallSum = arr[0];
  for (int i = 1; i < n; i++) {
    if (currentSum \ge 0) {
       currentSum += arr[i]; // Add current element
to current sum if positive
    } else {
       currentSum = arr[i]; // Start new subarray if
current sum is negative
    if (currentSum > overallSum) {
       overallSum = currentSum; // Update overall
sum if current sum is greater
  }
  return overallSum; // Return maximum sum found
}
int main() {
  const int arr[] = {5, 6, 7, 4, 3, 6, 4}; // Input array
  int n = sizeof(arr) / sizeof(arr[0]); // Determine the
number of elements in the array
  cout << maxSubArraySum(arr, n) << endl; //</pre>
Output maximum sum of subarray
  return 0;
```

Dry Run with Given Input

Given array:

{5,6,7,4,3,6,4}

Step 2.1: Initialize Variables

currentSum = arr[0] = 5overallSum = arr[0] = 5

Step 2.2: Iterate Through Array

Index (i)	Element (arr[i])	currentSum	overallSum
0	5	5	5
1	6	(5+6) = 11	11
2	7	(11 + 7) = 18	18
3	4	(18+4) = 22	22
4	3	(22 + 3) = 25	25
5	6	(25 + 6) = 31	31
6	4	(31 + 4) = 35	35

Step 3: Final Answer

Maximum Subarray Sum = 35

Output:-35

}