Sliding Window Algorithm (i, j, n)

C++ Code Implementation:

```
#include <iostream>
#include <vector>
using namespace std;
void slidingWindow(vector<int>& nums, int k) {
    int n = nums.size(); // Total size of array
    int i = 0, j = 0;
                        // i -> left pointer, j -> right pointer
    int sum = 0;
                         // Example: sum of elements in the window
   while (j < n) { // Expand window by moving j
       sum += nums[j];
        // If window size reaches k, process the window
        if (j - i + 1 == k) {
            cout << "Window [" << i << ", " << j << "]: Sum = " << sum << endl;
            // Shrink window from the left
            sum -= nums[i];
            i++;
        }
        j++; // Move right pointer forward
    }
}
int main() {
   vector<int> nums = \{1, 3, 2, 6, 4, 5, 7\};
    int k = 3; // Window size
   slidingWindow(nums, k);
   return 0;
}
```

Time Complexity:

```
Best Case: O(N)Average Case: O(N)Worst Case: O(N) (Each element is processed at most twice)
```