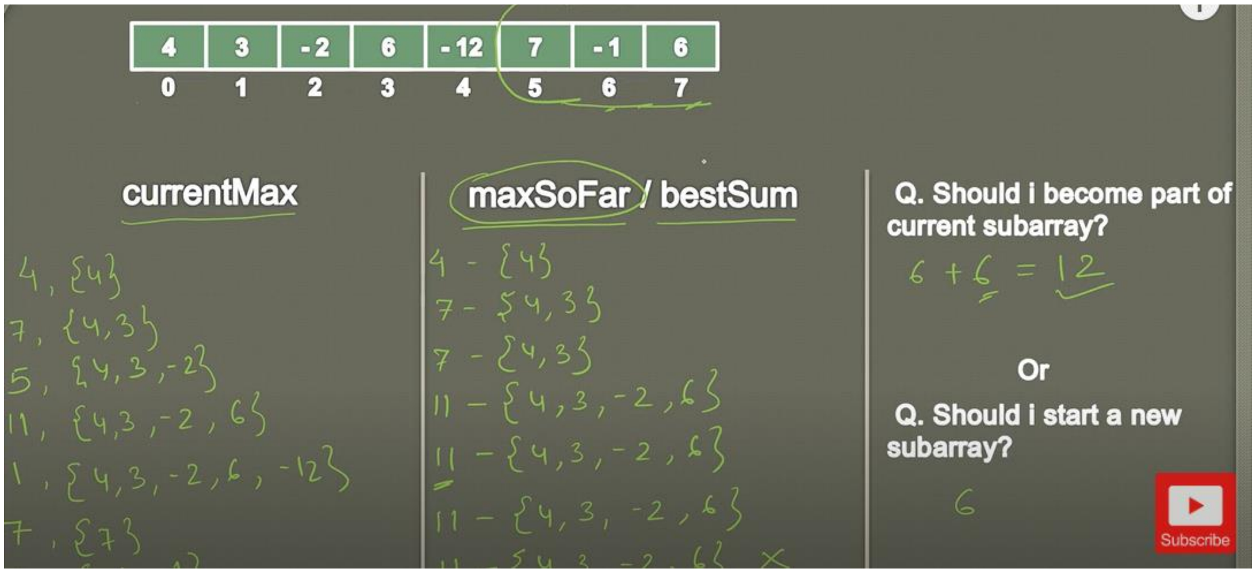
Kadane's alog: Finds maximum subarray sum in O(n) complexity.



Solution:

```
int maxSubArray(vector<int>& nums) {


        int currentSum =nums[0], totalSum = nums[0];


        for(int i=1; i<nums.size(); i++) {


            //Current max sum is either the current element OR current element + Previous Maximum subarray)

            currentSum = max(nums[i], currentSum+nums[i]);


            //If the current maximum array sum is greater than the global total. Update it

            totalSum = max(totalSum, currentSum);

    }

        return totalSum;

    }
```