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6230. Maximum Sum of Distinct Subarrays With Length K

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You are given an integer array nums and an integer k. Find the maximum subarray sum of all the subarrays of nums that meet the following conditions:

- The length of the subarray is k, and
- All the elements of the subarray are distinct.

Return the maximum subarray sum of all the subarrays that meet the conditions. If no subarray meets the conditions, return 0.

A **subarray** is a contiguous non-empty sequence of elements within an array.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Medium

Example 1:

```
Input: nums = [1,5,4,2,9,9,9], k = 3
Output: 15
Explanation: The subarrays of nums with length 3 are:
- [1,5,4] which meets the requirements and has a sum of 10.
- [5,4,2] which meets the requirements and has a sum of 11.
- [4,2,9] which meets the requirements and has a sum of 15.
- [2,9,9] which does not meet the requirements because the element 9 is repeated.
- [9,9,9] which does not meet the requirements because the element 9 is repeated.
We return 15 because it is the maximum subarray sum of all the subarrays that meet the conditions
```

Example 2:

Constraints:

- $1 \le k \le nums.length \le 10^5$
- $1 \le nums[i] \le 10^5$

```
C
JavaScript
    const add0ne0rManyMap = (m, x, cnt = 1) \Rightarrow m.set(x, m.get(x) + cnt || cnt);
2
    const removeOneOrManyMap = (m, x, cnt = 1) \Rightarrow \{ let occ = m.get(x); occ > cnt ? m.set(x, occ - cnt) : m.delete(x); \};
3
4
    const maximumSubarraySum = (a, k) \Rightarrow \{
5
        let n = a.length, res = 0, m = new Map(), sum = 0;
6
        for (let i = 0; i < n; i++) {
7
             sum += a[i];
8
             addOneOrManyMap(m, a[i])
9 •
             if (i >= k) {
10
                sum -= a[i-k];
                removeOneOrManyMap(m, a[i-k]);
11
12
             if (m.size == k) res = Math.max(res, sum);
13
14
15
        return res;
16
    };
```

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