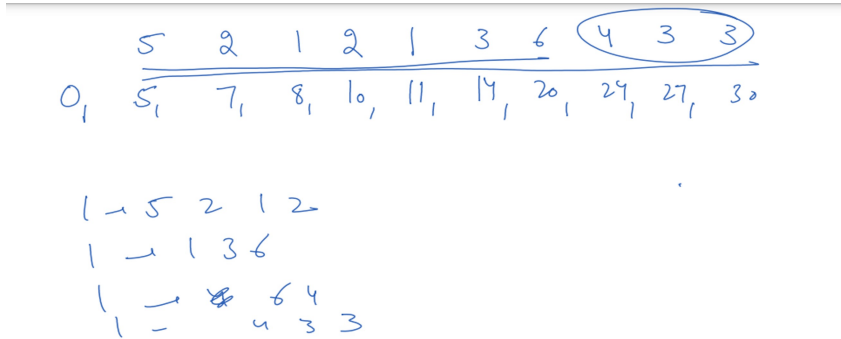


Subarray Sum Equals K

19 April 2022 16:23

<https://leetcode.com/problems/subarray-sum-equals-k/>

Find subarrays which sum is equals to k.



The approach is -

1. Take a variable called **sum**, which will do the operation of adding elements to it, at every instance.
2. Then we subtract that instance sum with k, let we get the value 'a'. If we found the value 'a' in our hashmap, then add that value to ans and increase its value by one, otherwise insert a new key as 'a' with value one in it.

CODE -

```
class Solution {  
    public int subarraySum(int[] nums, int k) {  
        int ans = 0;  
        int sum = 0;
```

Take a variable sum = which which will do the operation of adding elements to it, at every instance.

```
        HashMap<Integer, Integer> map = new HashMap<>();
```

Create a hash map, and put sum-0 as a key and its Value to 1.

```
        map.put(sum, 1);
```

```
        for(int val: nums){  
            sum += val;
```

Add instance element to sum variable.

```
            if(map.containsKey(sum - k)){  
                ans += map.get(sum - k);  
            }
```

After that sum have to subtract with k, let 'a'.

- If 'a' is present in the map, then add its value To the ans. And increase its value by one.
- If 'a' is not present, then add that 'a' to the hashmap And mark its value to one.

```
            if(map.containsKey(sum)){  
                map.put(sum, map.get(sum) + 1);  
            } else {  
                map.put(sum, 1);  
            }  
        }
```

```
        return ans;
```

```
    }  
}
```