**[Subarray Sum Equals K](https://leetcode.com/problems/subarray-sum-equals-k/)**

**package** leetcodeMedium;

**import** java.util.HashMap;

**public** **class** SubarraySumK {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int**[] nums = {1, 1, 1};

System.***out***.println(*subarraySum*(nums , 2));

}

**public** **static** **int** subarraySum(**int**[] nums, **int** k) {

**if**(nums == **null** || nums.length == 0) {

**return** 0;

}

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

map.put(0, 1);

**int** sum = 0;

**int** count = 0;

**for**(**int** i : nums) {

sum += i;

**if**(map.containsKey(sum - k)) {

count += map.get(sum - k);

}

map.put(sum, map.getOrDefault(sum, 0) + 1);

}

**return** count;

}

}

Time complexity : O(n) ,n is Number elements in array

Space Complexity : O(n) , n is Number elements in array