```java
class Solution {
    public int subarraySum(int[] nums, int k) {
        int sum = 0, cnt = 0;
        Map<Integer, Integer> mp = new HashMap<>();
        mp.put(0, 1);
        for (int i : nums) {
            sum += i;
            if (mp.containsKey(sum - k)) {
                cnt += mp.get(sum - k);
            }
            mp.put(sum, mp.getOrDefault(sum, 0)+1);
        }
        return cnt;
    }
}
```

Given an array of integers and an integer **k**, you need to find the total number of continuous subarrays whose sum equals to **k**.

Example 1:

```
Input:nums = [1,1,1], k = 2
Output: 2
```