☆ Subarray sum equals k

array : 1 2 3 -1 2 1 -2

k : 3

→ We'll use prefixsum & Hashmap to solve this problem (given constraints)

⇒ Brute

- Find all sub array
- check sum of every subarray
- If sum == k, count++
- Answer = count

★ Optimization (

→ Approach → sum += arr[i] ✗
→ check if (sum

★ Optimization
→ we'll use prefixsum & hashmap

At First we have sum = 0
∴ m[0] = 1

→ Now, iterate over the array
- do sum += arr[i]
- check if (sum − k) is present in map or not.
- if present then add Freq. (sum − k) in answer.
- else add sum & it's Freq. in map
- Repeat the process

	1	2	3	−1	2	−1	−2
k = 3							
sum=0	1	3	6	5	7	6	4
Freq=1	1	1	1	1	1	2	1
	↓	↓	↓			↓	↓
Initial condi...		c=1 (3−3=0) present in map	c=2 → (6−3=3) present			c=3 (6−3=3) present	c=4 (4−3=1) present

Answer = 4