
ARRAY : Video - 93



Leetcode
- 1248

Medium

Easy



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1248. Count Number of Nice Subarrays

Medium

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Hint



Given an array of integers nums and an integer k. A continuous subarray is called nice if there are k odd numbers on it.

Return the number of nice sub-arrays.

Example :- $nums = [7, 1, 2, 3, 5], k = 3$

Output = 2



~~7, 1, 2, 3, 5~~

Thought Process

nums = { 7, 1, 2, 3, 5 }, K = 3

$\{7, 1, 2, 3\}$ 0
 ODD ODD Even ODD ODD
 1 2 2 3 4

$\{1, 2, 3, 5\}$

$3 - 3 = 0$

Subarray having sum == K

$\{7, 1, 2, 3, 5\}$, K = 3
 0 1 2 3 4
 7 1 2 3 5

ODD Count = { 1, 2, 2, 3, 4 }

$$4 - k = 4 - 3 = 1$$

$\{ \overset{0}{1}, \overset{1}{1}, \overset{2}{2}, \overset{3}{1}, \overset{4}{1} \}, k=3$
 (Arrows point from index 0 to 1 and index 4 to 1)

map

$$0 \rightarrow 1$$

$$1 \rightarrow 1$$

$$2 \rightarrow 2$$

$$3 \rightarrow 1$$

$$\text{ODDCount} = 4$$

$$4 - k = 4 - 3 = 1$$

$$\text{result} = 1 + 1 = 2$$

$\{ \overset{0}{2}, \overset{1}{1}, \overset{2}{2}, \overset{3}{1} \}, k=1$
 0 0 1 1 2

map

$$0 \rightarrow 2$$

$$1 \rightarrow 2$$

$$2 \rightarrow 1$$

$$\text{ODDCount} = 2$$

$$2 - k = 2 - 1 = 1$$

$$\text{result} = 2 + 2 + 2 \checkmark$$

Sliding Window

$$\text{nums} = \{ \underset{i}{1}, \underset{j}{1}, 2, 1, \underset{j}{1} \}, k=3$$

$$\text{result} = 1 + 1 \quad \checkmark$$

$$\text{oddCount} = \frac{\cancel{3} \cancel{2} \cancel{3}}{2}$$

$$\{2, 1\}, K=1$$

the 1990s, the number of people in the UK who are employed in the public sector has increased by 1.5 million (1990–1999) (Department of Health 2000).

There is a growing emphasis on the importance of the public sector in the provision of health care services. The UK government has set out a vision for the NHS in the 21st century, which includes a commitment to 'improve the quality of care and services, to ensure that the NHS is able to meet the needs of the population, and to ensure that the NHS is able to provide a high quality of care and services' (Department of Health 2000). This vision is based on the principle of 'patient-centred care', which is a model of care that focuses on the needs of the patient, rather than the needs of the system. This model of care is based on the principle of 'shared decision-making', which is a model of care that involves the patient and the health care professional in making decisions about the patient's care.

The NHS is a public sector organization that is responsible for the provision of health care services in the UK. It is a large organization, with a budget of over £100 billion per year. It is a complex organization, with a wide range of services and a large number of staff. It is a public sector organization, which means that it is owned and controlled by the state.

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