



مهم جدأ

هذا الملف للمراجعة السريعة واخذ الملاحظات عليه فقط ،لانه يحتوي على اقل من 20٪ مما يتم شرحه في الفيديوهات الاستعجال والاعتماد عليه فقط سوف يجعلك تخسر كميه معلومات وخبرات كثيره

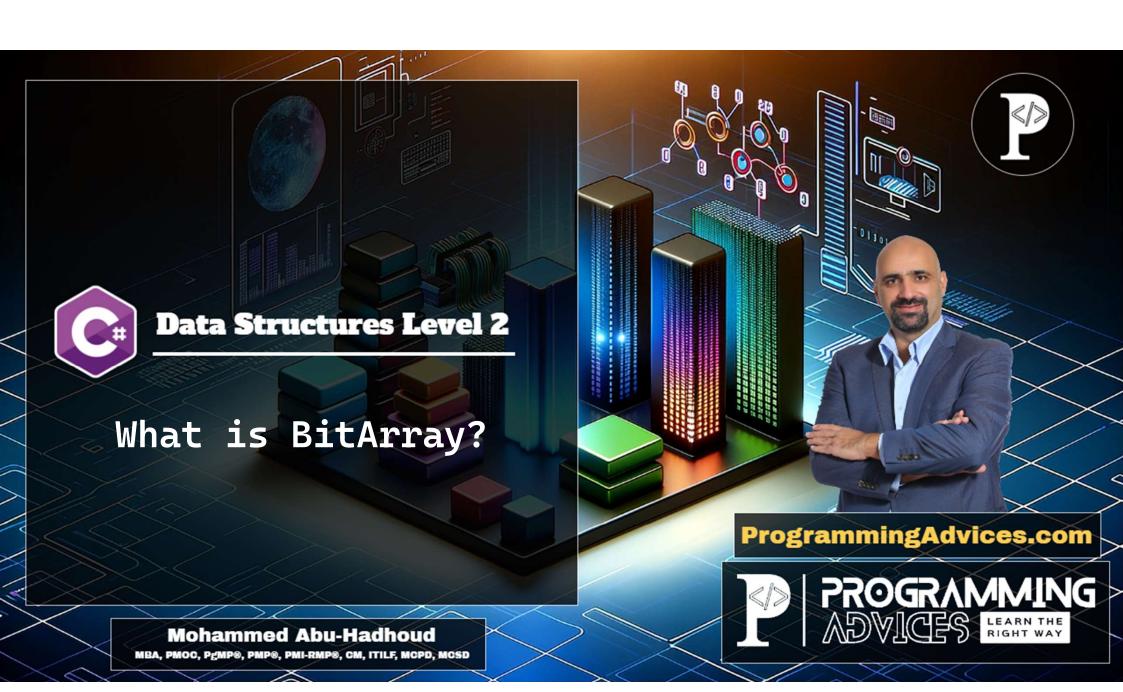
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What is BitArray?

- In C#, the System.Collections.BitArray class provides a <u>convenient way to work with</u> <u>collections of bits</u>.
- It is particularly <u>useful when dealing with</u>
 operations on binary data or when you need to
 optimize memory usage for storing a large number
 of boolean values.



Key Concepts:

- BitArray: A class in the System.Collections namespace that represents a collection of bits.
- Efficient Storage: BitArray allows for <u>efficient</u> <u>storage and manipulation of binary data</u>, offering a <u>compact representation of boolean</u> values.



Benefits:

- Compact Representation: BitArray provides a compact representation of boolean values, consuming less memory compared to traditional boolean arrays.
- Efficient Operations: It offers methods for efficient manipulation of individual bits and bitwise operations, making it suitable for various binary-related tasks.



Use Cases:

- Binary Data Manipulation: Working with binary data such as encoding, decoding, or bitwise operations.
- Memory Optimization: Storing a large number of boolean flags or states in memory efficiently.
- Algorithm Optimization: Improving performance in algorithms that require bit-level manipulation.



Conclusion:

- Understanding the basics of BitArray in C# is crucial for efficiently handling binary data and optimizing memory usage.
- In the following lesson, we will delve into working with BitArray, exploring its methods and practical examples.



