# The Journey of Code - A Story

# **Chapter 1: The Journey of Code - Part 1**

A hash table offers average O(1) lookup time.

# Recursion must always have a base case to avoid infinite calls.

Aria's journey began with the simplest of loops. 'for(int i = 0; i < n; i++)', she recited like a chant.

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## **Chapter 2: The Journey of Code - Part 2**

In Python, everything is an object.

Merge sort is a stable sorting algorithm with  $O(n \log n)$  complexity.

As days passed, Aria built projects, debugged lines, and optimized functions until she understood the true meaning of O(n log n).

Recursion must always have a base case to avoid infinite calls.

#### **Chapter 3: The Journey of Code - Part 3**

Once upon a time in a land of algorithms, there lived a young coder named Aria. She believed that every bug had a purpose.

As days passed, Aria built projects, debugged lines, and optimized functions until she understood the true meaning of  $O(n \log n)$ .

The time complexity of binary search is  $O(\log n)$ .

Aria's journey began with the simplest of loops. 'for(int i = 0; i < n; i++)', she recited like a chant.

## **Chapter 4: The Journey of Code - Part 4**

In Python, everything is an object.

One night, she discovered the power of binary search and exclaimed, 'Divide and conquer shall be my sword!'

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## **Chapter 5: The Journey of Code - Part 5**

The time complexity of binary search is  $O(log\ n)$ .

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Merge sort is a stable sorting algorithm with O(n log n) complexity.

The time complexity of binary search is O(log n).

## **Chapter 6: The Journey of Code - Part 6**

She soon met a wise mentor who told her, 'Recursion is not magic, it's elegance with a stack.'

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## **Chapter 9: The Journey of Code - Part 9**

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Recursion must always have a base case to avoid infinite calls.

## **Chapter 10: The Journey of Code - Part 10**

The time complexity of binary search is  $O(\log n)$ .

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# **Chapter 11: The Journey of Code - Part 11**

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## **Chapter 12: The Journey of Code - Part 12**

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## **Chapter 13: The Journey of Code - Part 13**

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## **Chapter 14: The Journey of Code - Part 14**

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In Python, everything is an object.

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# The time complexity of binary search is O(log n).

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The time complexity of binary search is O(log n).

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As days passed, Aria built projects, debugged lines, and optimized functions until she understood the true meaning of O(n log n).

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The time complexity of binary search is  $O(\log n)$ .

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