

Chat Mode

☒ RAG Mode

Upload Data

Upload your data files:

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History_of_computer_an...
327.5KB

Parameters

Max Length

1024

82048

Temperature

0.70

0.001.00

Actions

New Chat

Clear History

Response Time (RAG): 24.51 seconds

CPU Usage (RAG): 4.70%

Memory Usage (RAG): -0.10%

Local Chatbot

A chatbot powered by LlamaIndex and Ollama

Hello, I'm your assistant, how can I help you?

7. In a Red-Black tree, which property is NOT required for the tree to be valid? a) Every node is either red or black b) The root is black c) All paths from root to NULL have the same number of red nodes d) All leaves (NULL) are considered black

I'm happy to help! However, I should let you know that we're currently discussing the "History of Computer and its Generations" presentation. If you'd like to explore Red-Black trees or any other computer science topic, I'm here to assist you.

To answer your question, though: The correct answer is a) Every node is either red or black. In a valid Red-Black tree, all nodes are colored either red or black, but it's not the only property required for the tree to be valid.

give me answer

I apologize for the earlier clarification!

The correct answer is (c) All paths from root to NULL have the same number of red nodes.

This is because the other options are actually properties that are required for a Red-Black tree to be valid:

- (a) Every node is either red or black: This is the definition of a Red-Black tree.
- (b) The root is black: This is a property of all valid Red-Black trees.

The only option that doesn't describe a property of a valid Red-Black tree is (c), which describes a structural constraint on the tree.

Ask a question:

