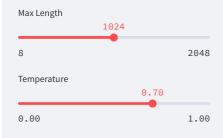


Parameters



Actions

New Chat Clear History

Response Time (RAG): 24.21 seconds

CPU Usage (RAG): 4.80%

Memory Usage (RAG): -0.10%



🚀 A chatbot powered by LlamaIndex and Ollama 🐂

- (E) Hello, I'm your assistant, how can I help you?
- 8. Given a distributed system using the Paxos consensus algorithm, what is the minimum number of nodes that must be operational to achieve consensus in a system with N nodes?

 a) N/2 b) N/2 + 1 c) 2N/3 d) N 1
- A question about distributed systems and Paxos!

The correct answer is (b) N/2 + 1.

In the Paxos consensus algorithm, a majority of nodes must be operational to achieve consensus. In a system with N nodes, this means that at least (N/2) + 1 nodes must be operational for consensus to be achieved. This is because if fewer than (N/2) + 1 nodes are operational, there may not be enough nodes to form a majority, and thus consensus cannot be reached.

For example, in a system with 5 nodes, at least 3 nodes must be operational for consensus to be achieved. In a system with 10 nodes, at least 6 nodes must be operational for consensus to be achieved.

So, the correct answer is (b) N/2 + 1.

Ask a question: