


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

82048

Temperature

0.70

0.001.00

0.001.00

Actions

New Chat

Clear History

Response Time (RAG): 24.21 seconds

CPU Usage (RAG): 4.80%

Memory Usage (RAG): -0.10%




# Local Chatbot



 A chatbot powered by LlamaIndex and Ollama 

 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:

