SER 321 B Session

SI Session

Sunday, November 24th 2024

7:00 pm - 8:00 pm MST

Agenda

- Assignment 5 Example Tracing
- Distributed Structure Review
- Consensus Review
- RAFT
- Peer to Peer

SI Session Expectations

Thanks for coming to the **SER 321** SI session. We have a packed agenda and we are going to try to get through as many of our planned example problems as possible. This session will be recorded and shared with others.

- If after this you want to see additional examples, please visit the drop-in tutoring center.
- We will post the link in the chat now and at the end of the session.
  - tutoring.asu.edu
- Please keep in mind we are recording this session and it will be made available for you to review 24-48 hours after this session concludes.
- Finally, please be respectful to each other during the session.

Interact with us:

Zoom Features

Zoom Chat

- Use the chat feature to interact with the presenter and respond to presenter's questions.
- Annotations are encouraged

SER 321
Assignment 5

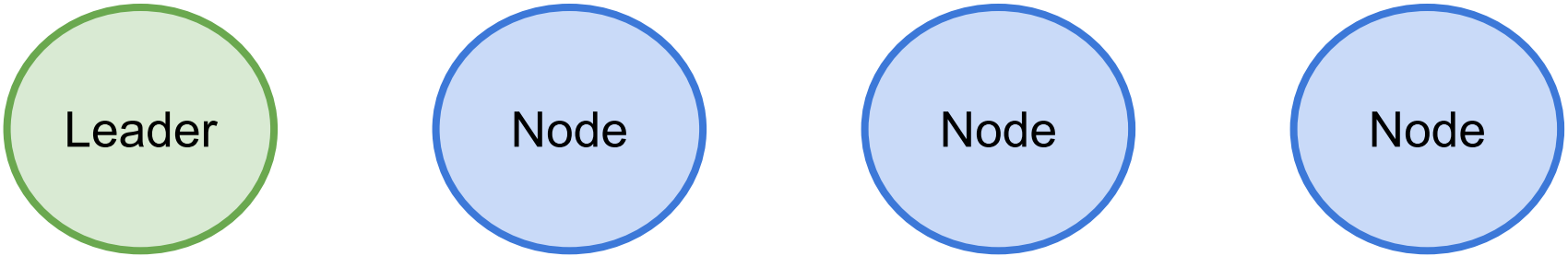
How is Assignment 5 going?

Have we figured out our general structure?

SER 321

Assignment 5 Visualization

What does a ‘node’ represent in our structure?



Check out the recording for the discussion!

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Assignment 5 Visualization

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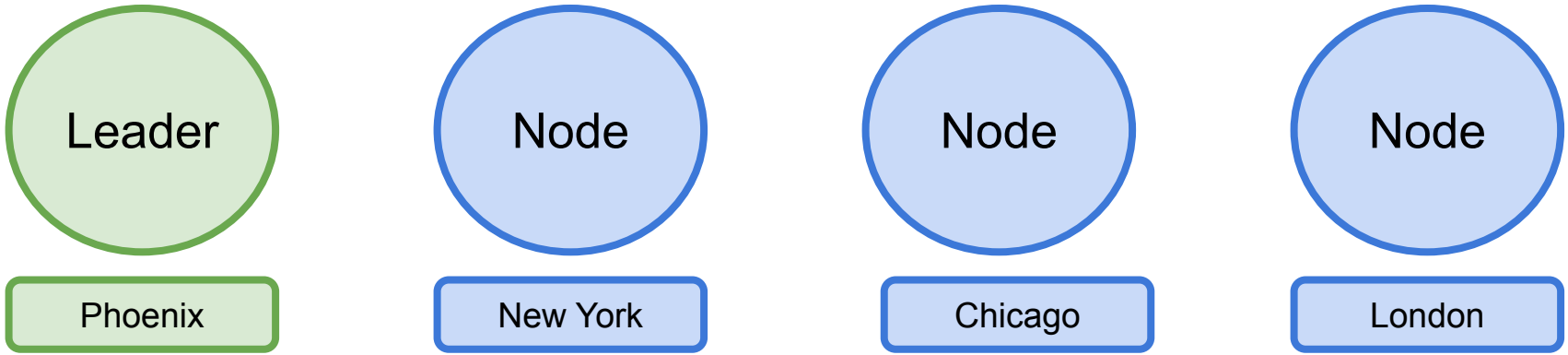
What does a ‘node’ represent in our structure?



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Assignment 5 Visualization

Let's depict the Example…

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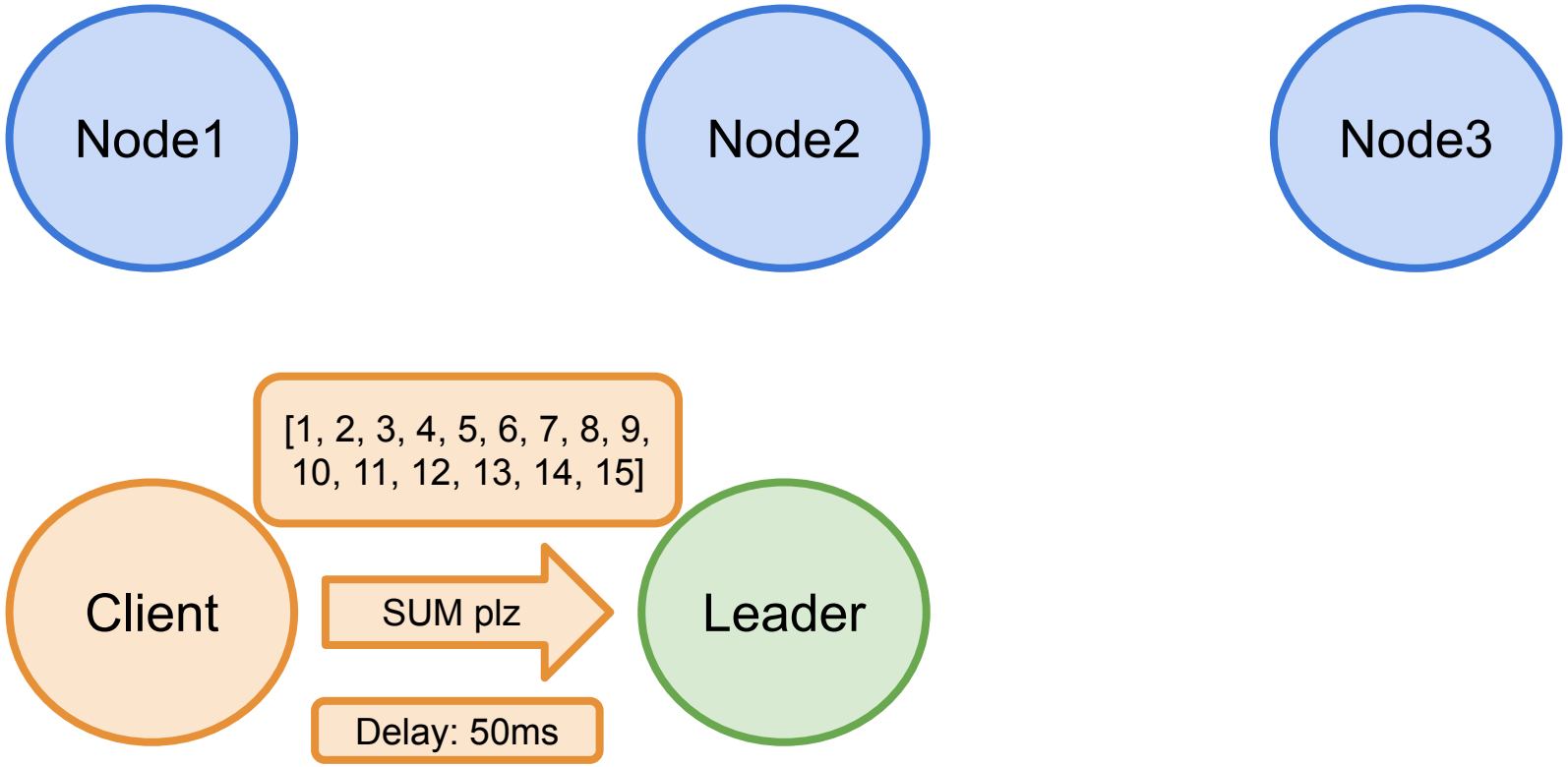

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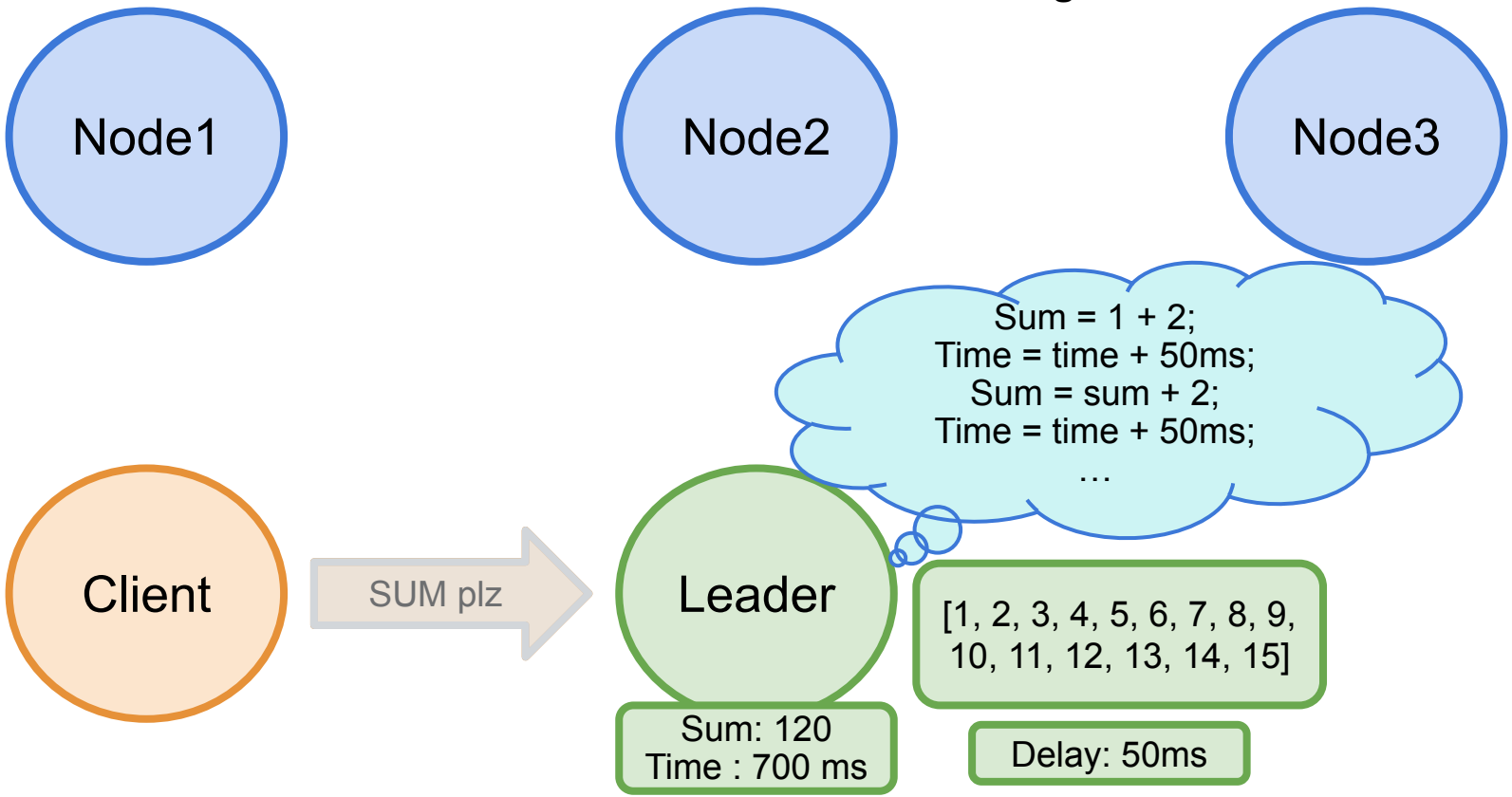

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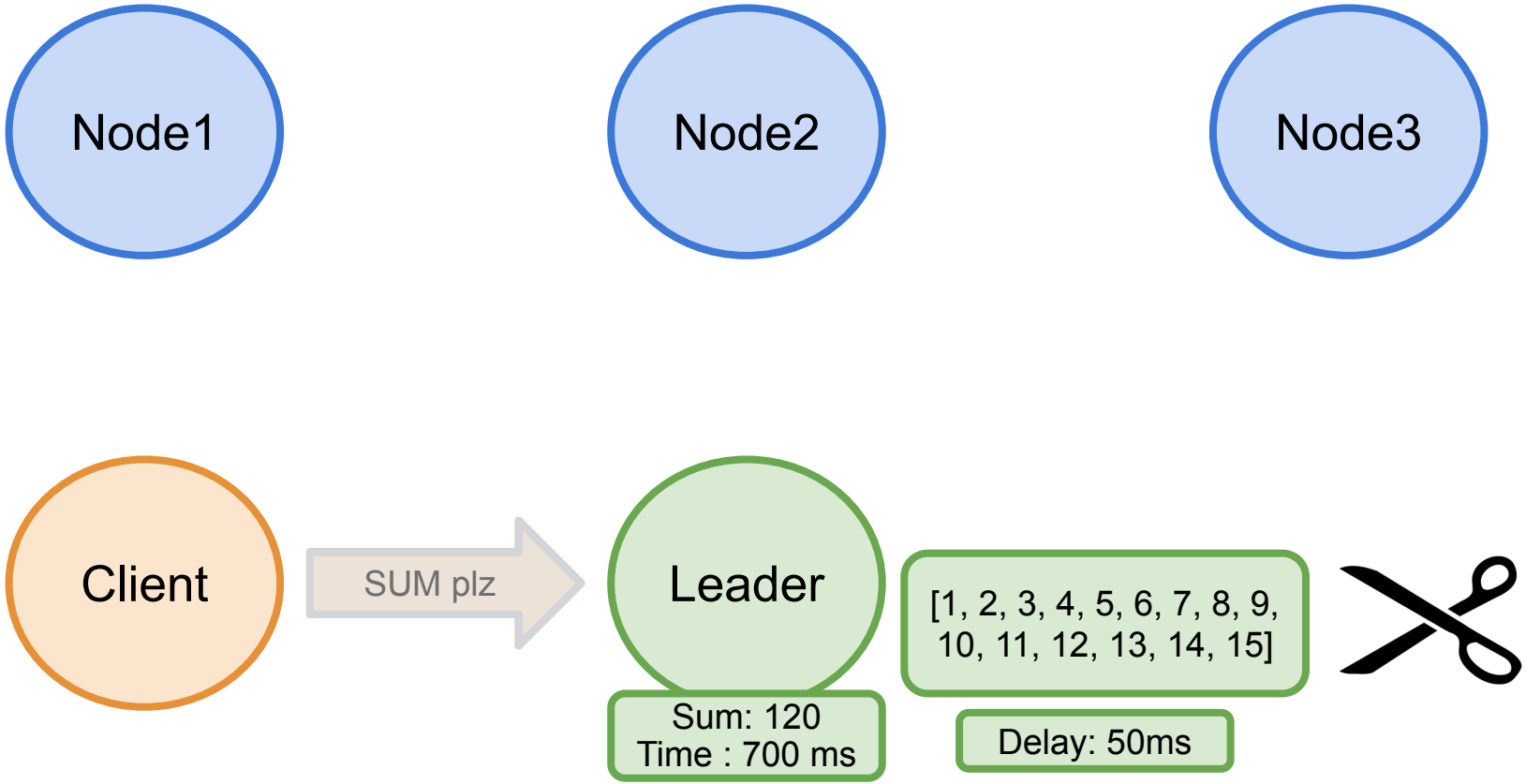

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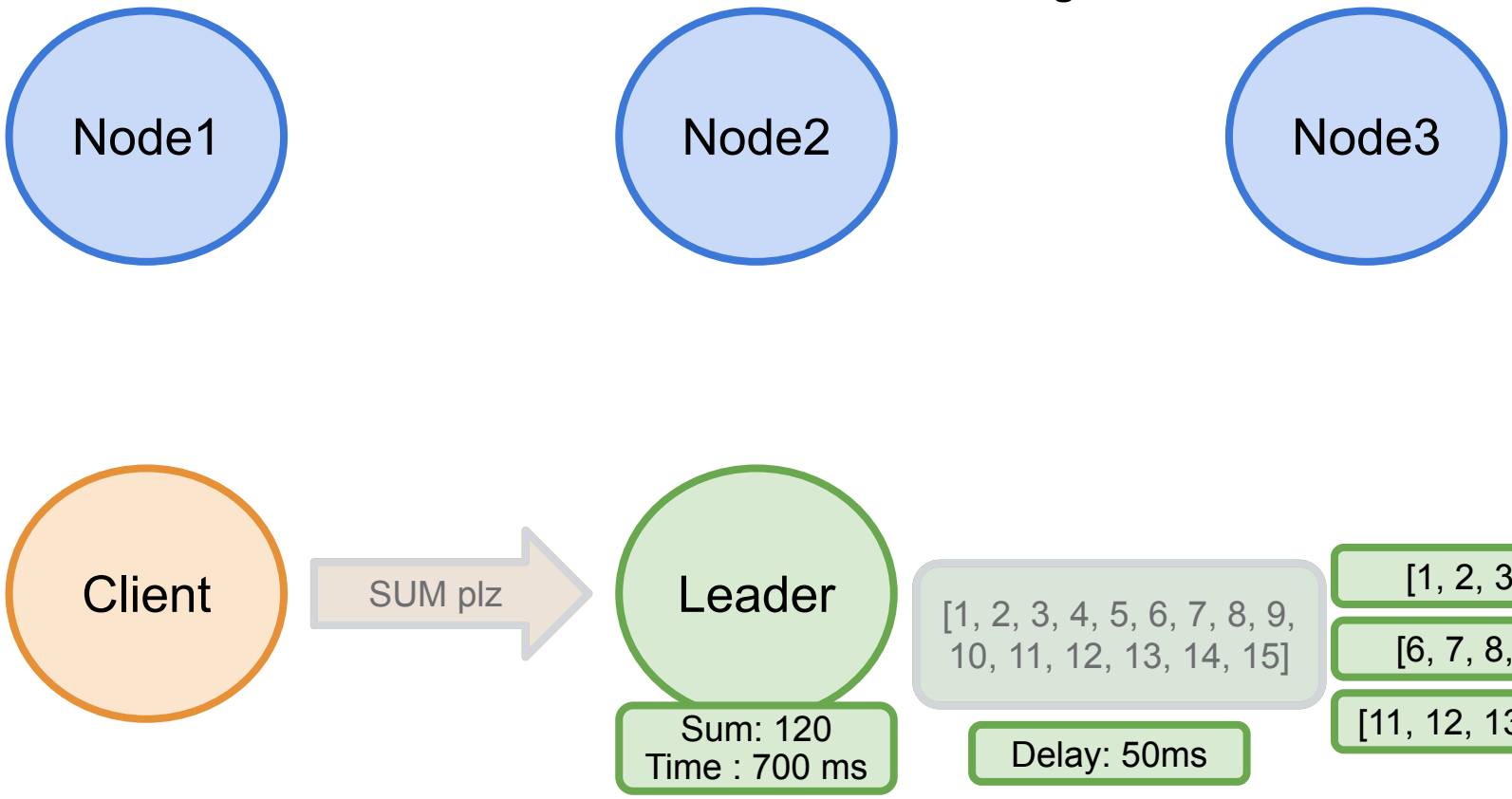

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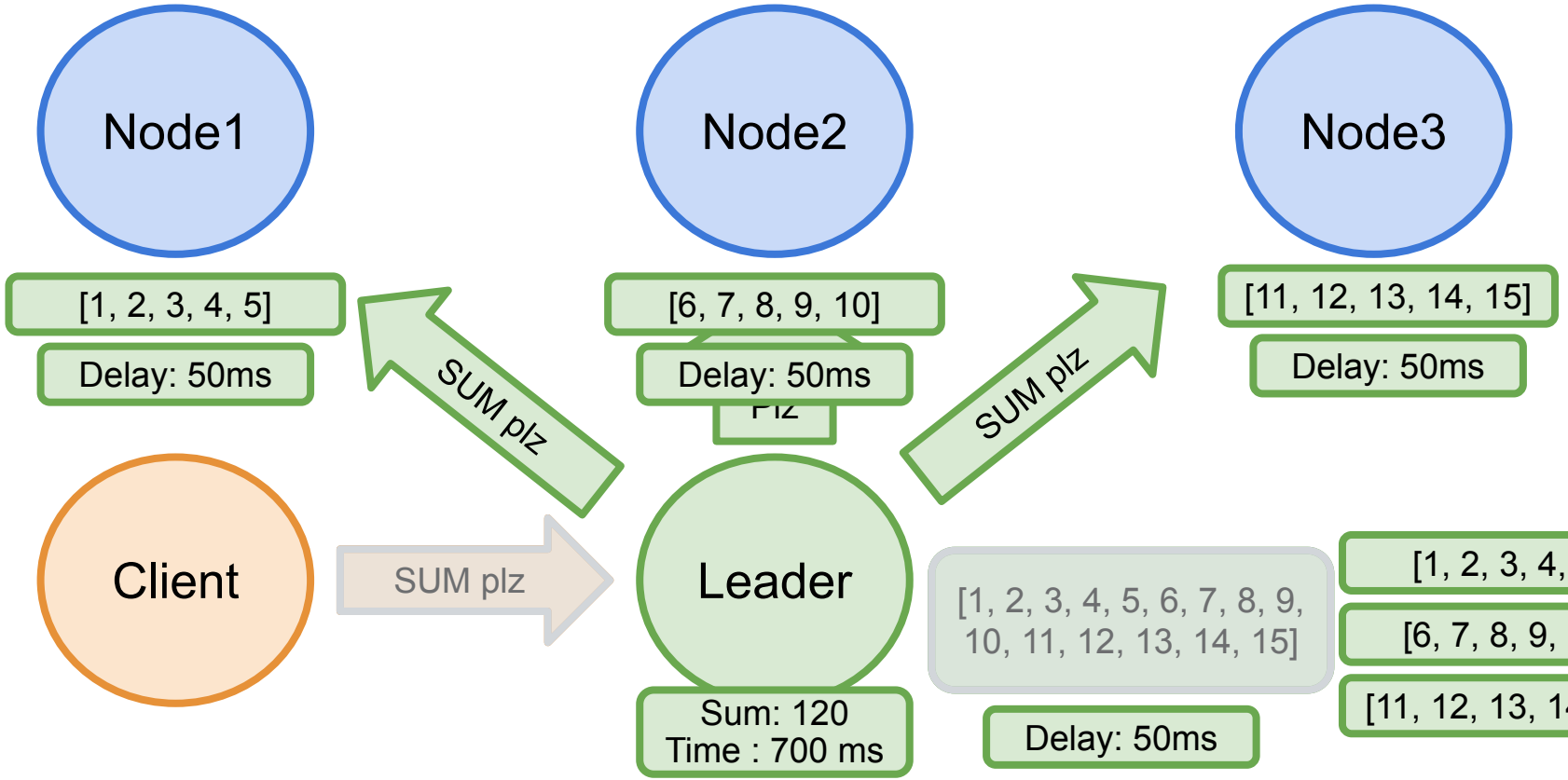

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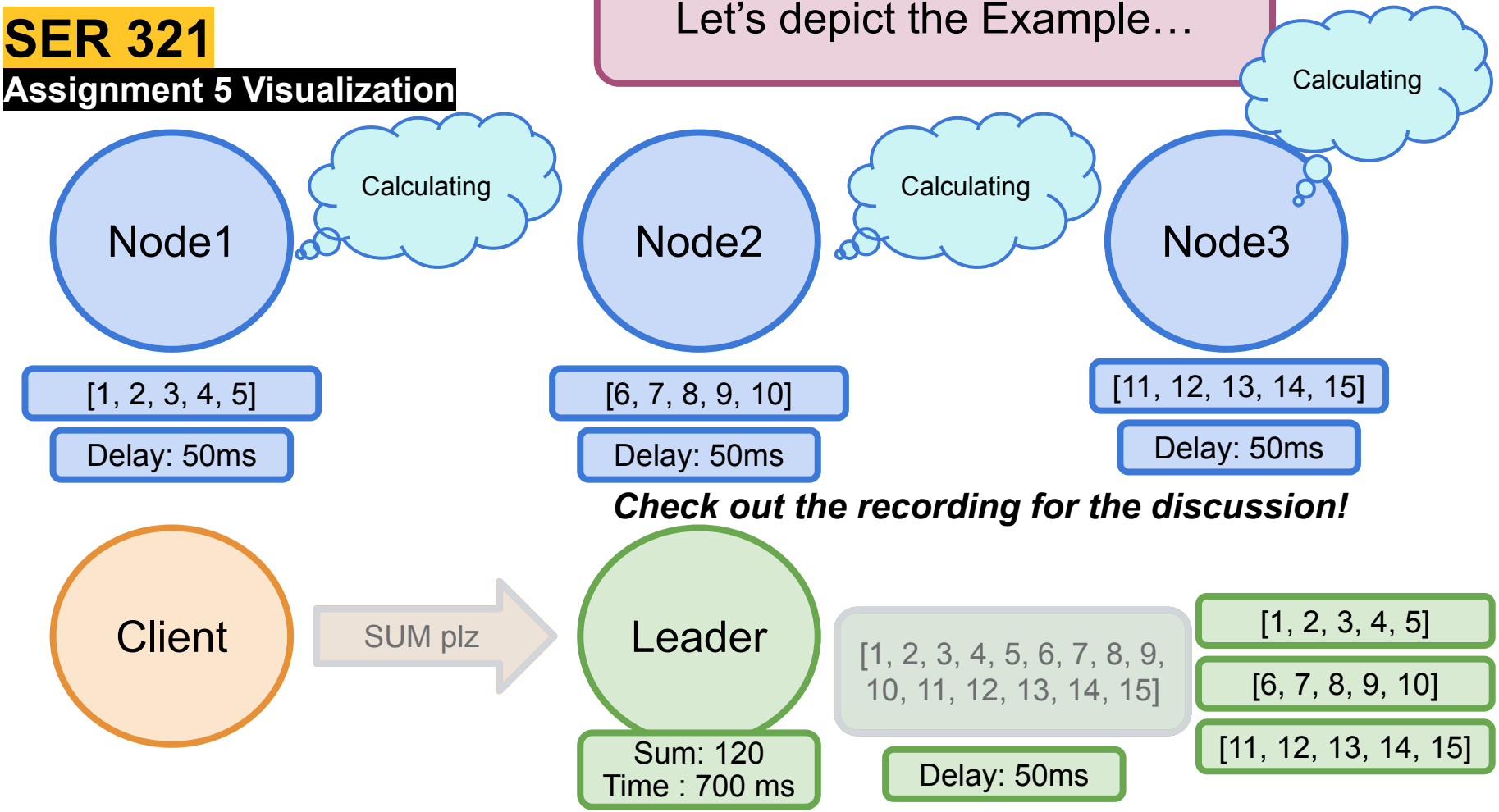

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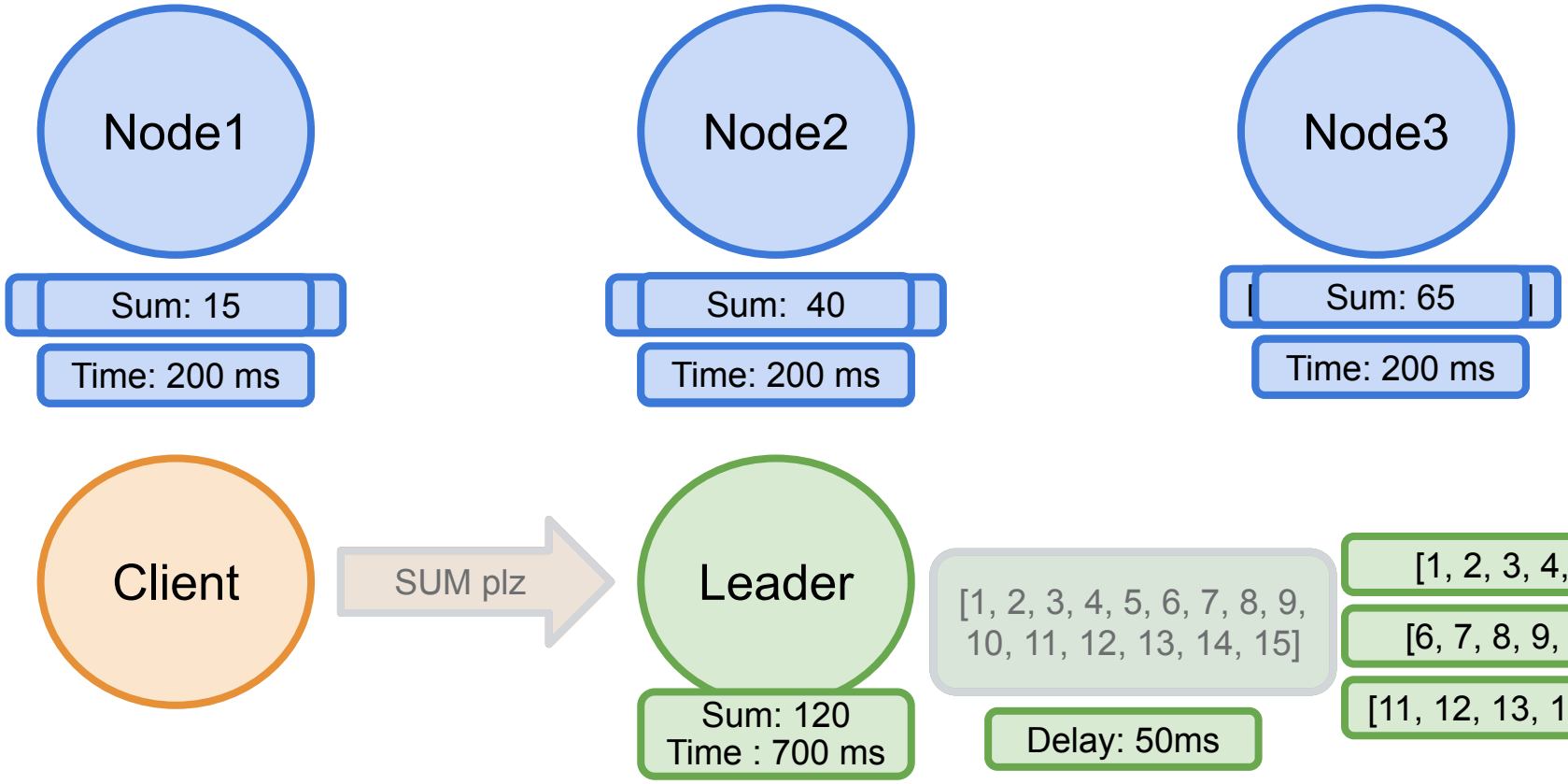

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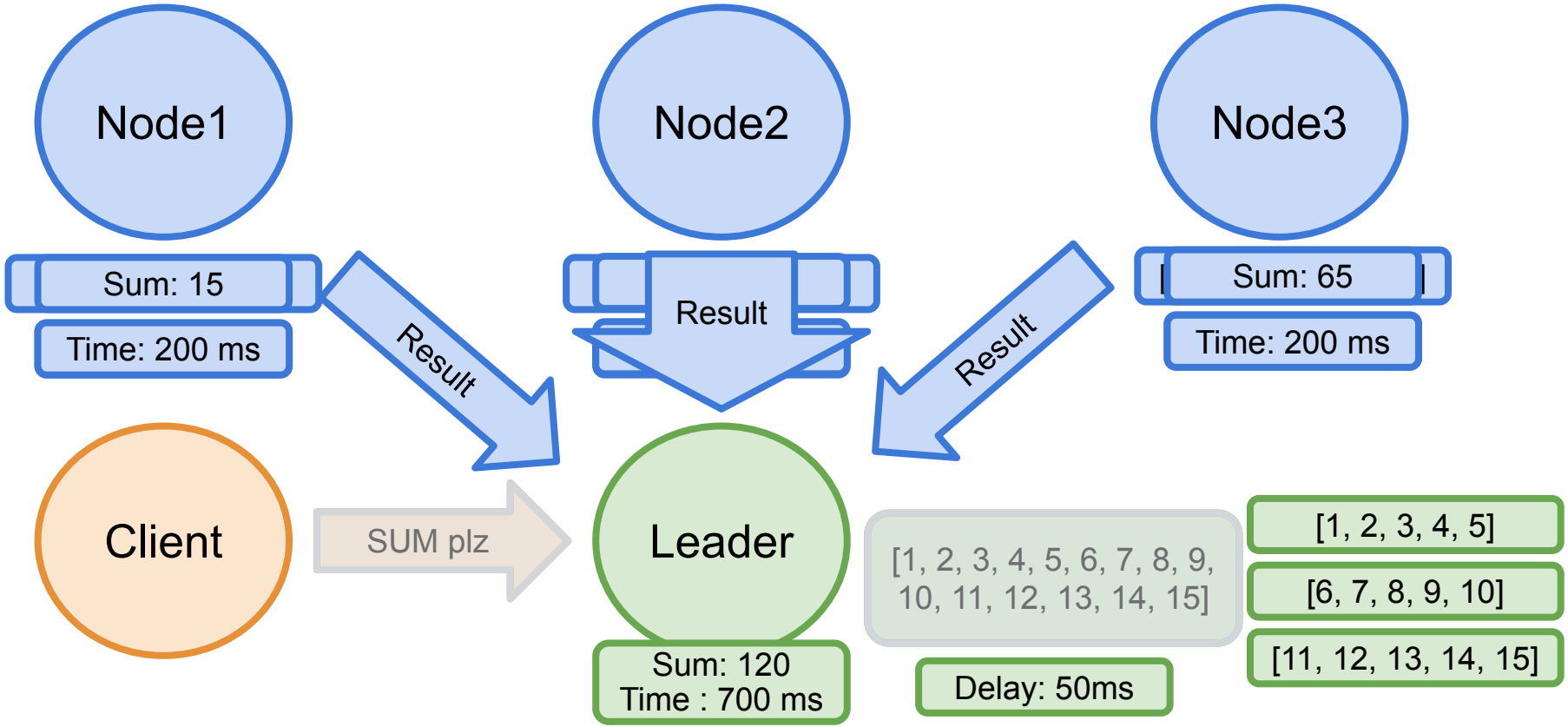

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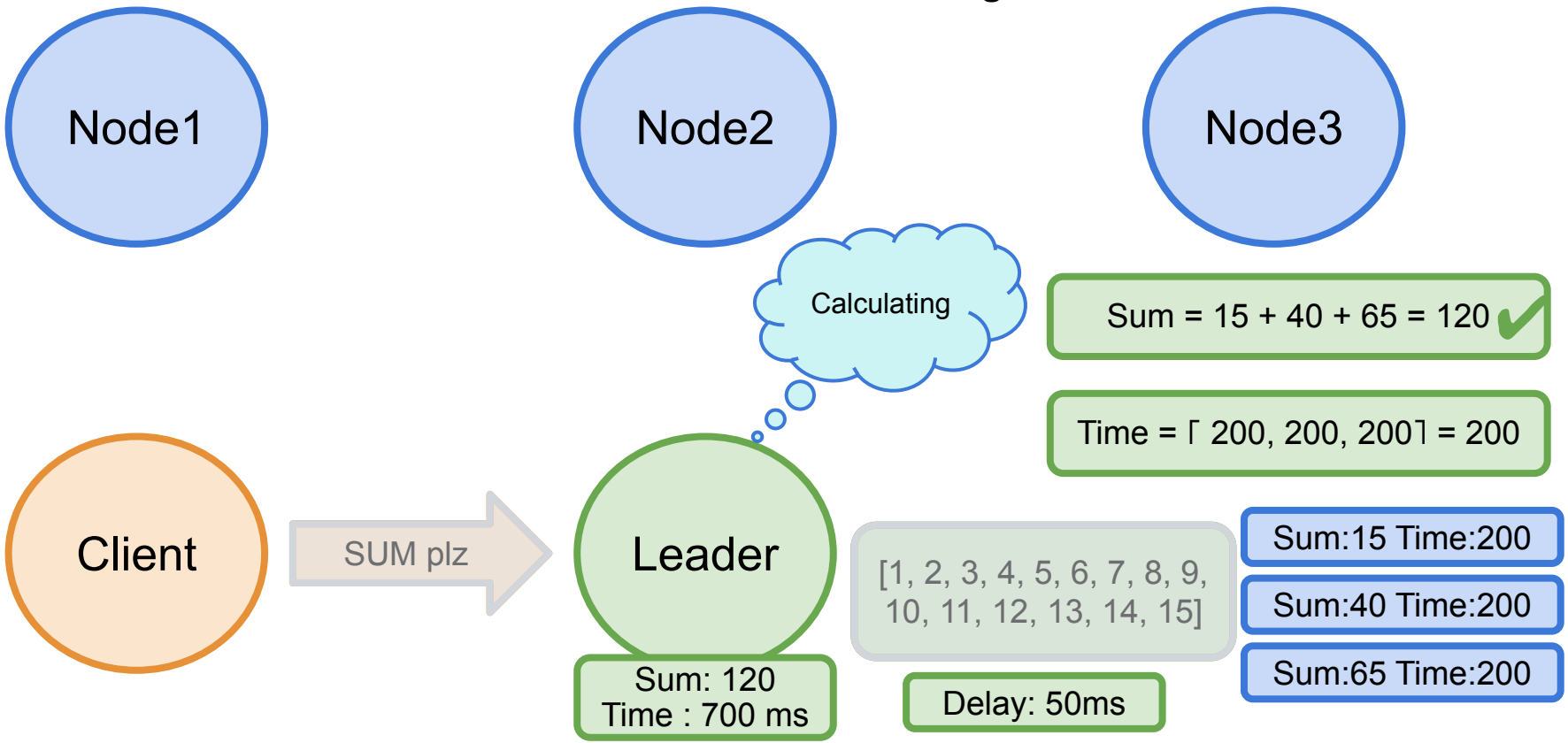

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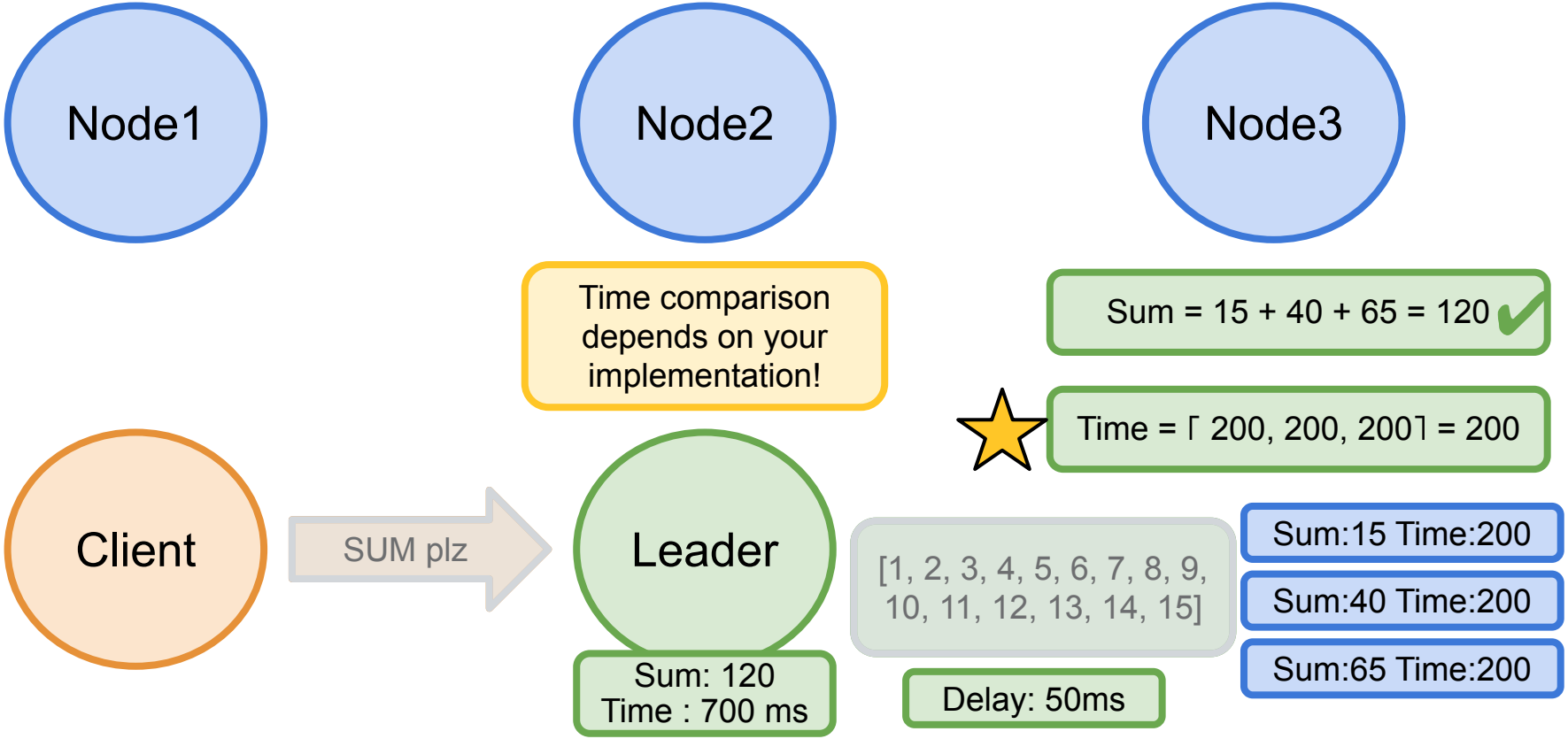

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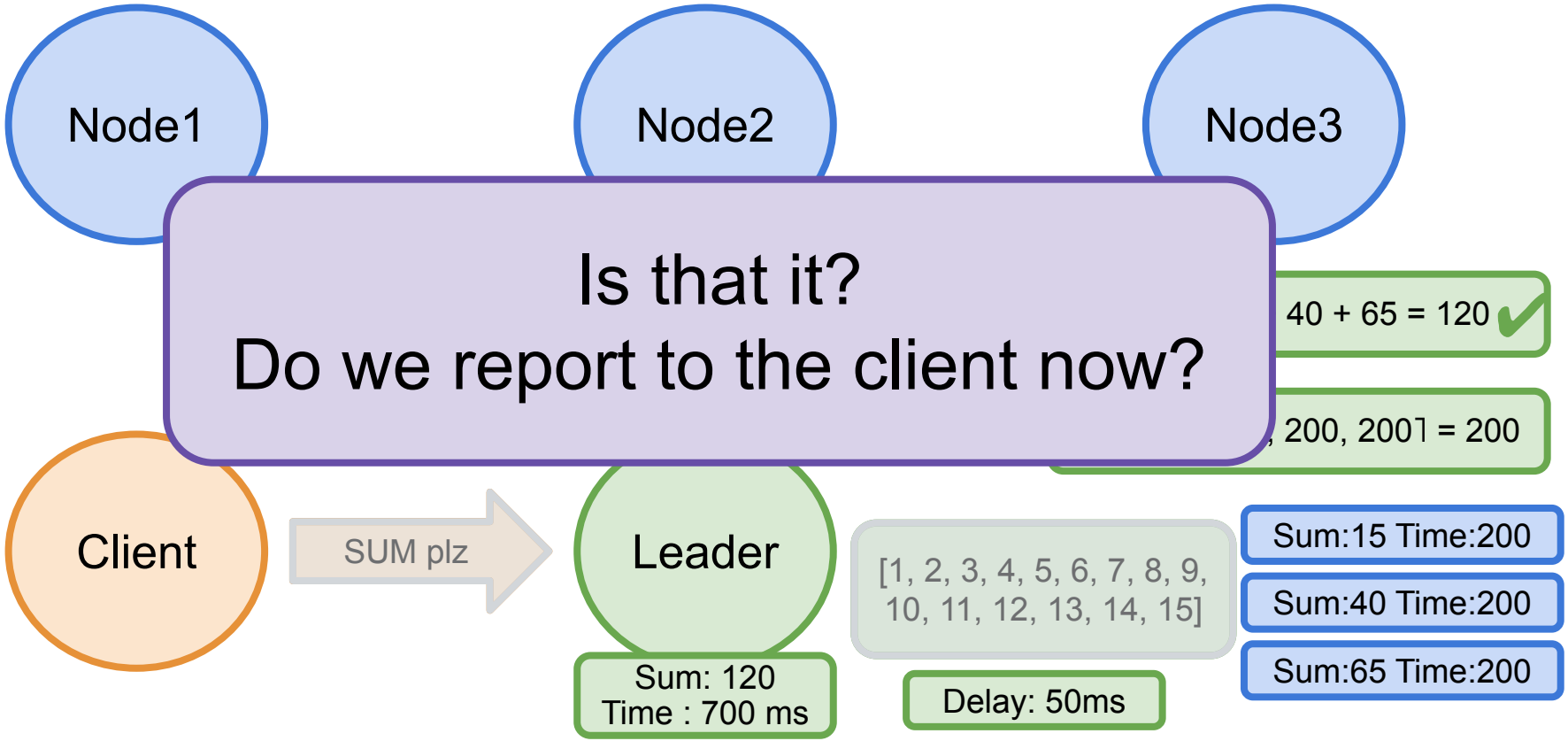

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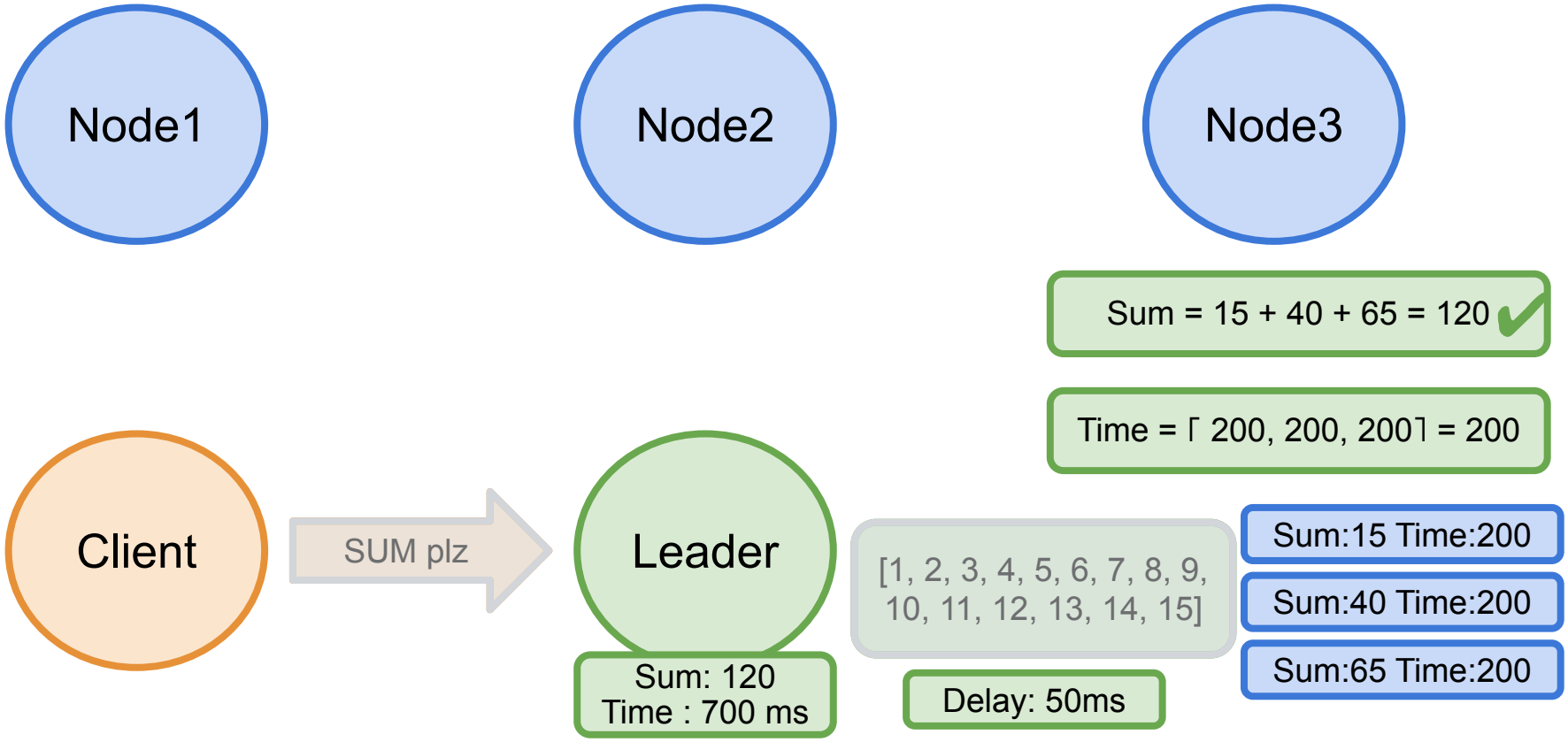

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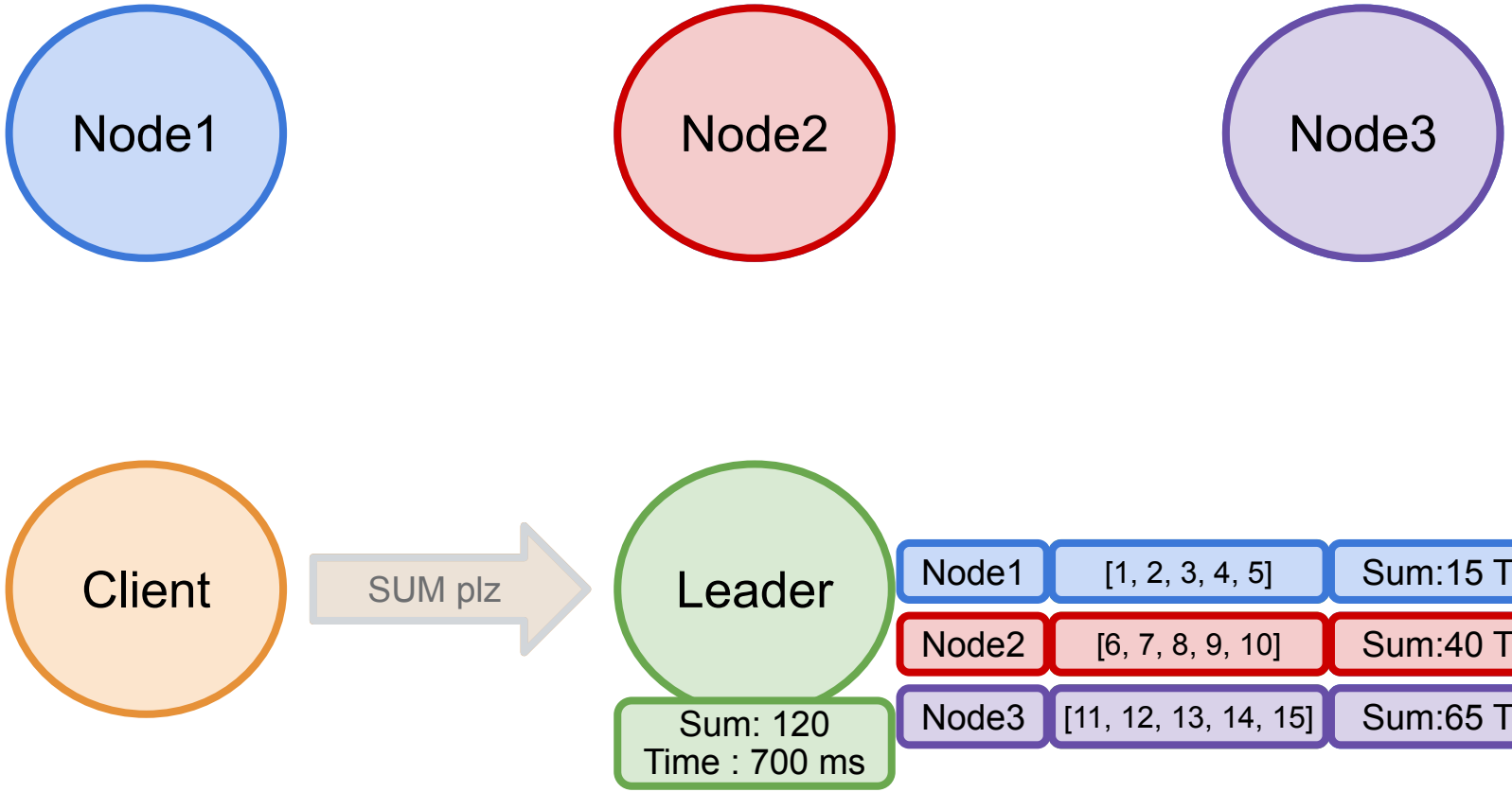

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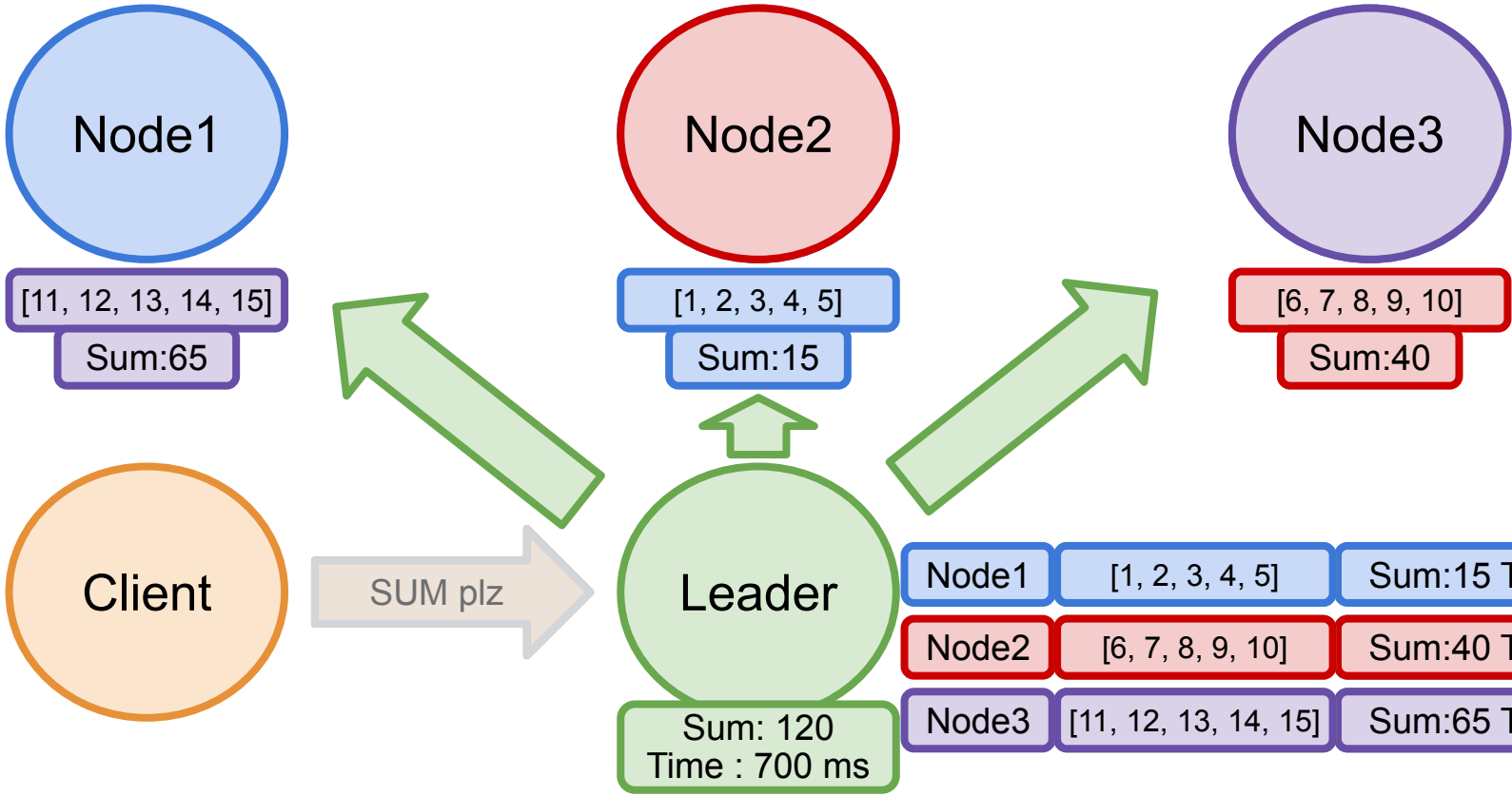

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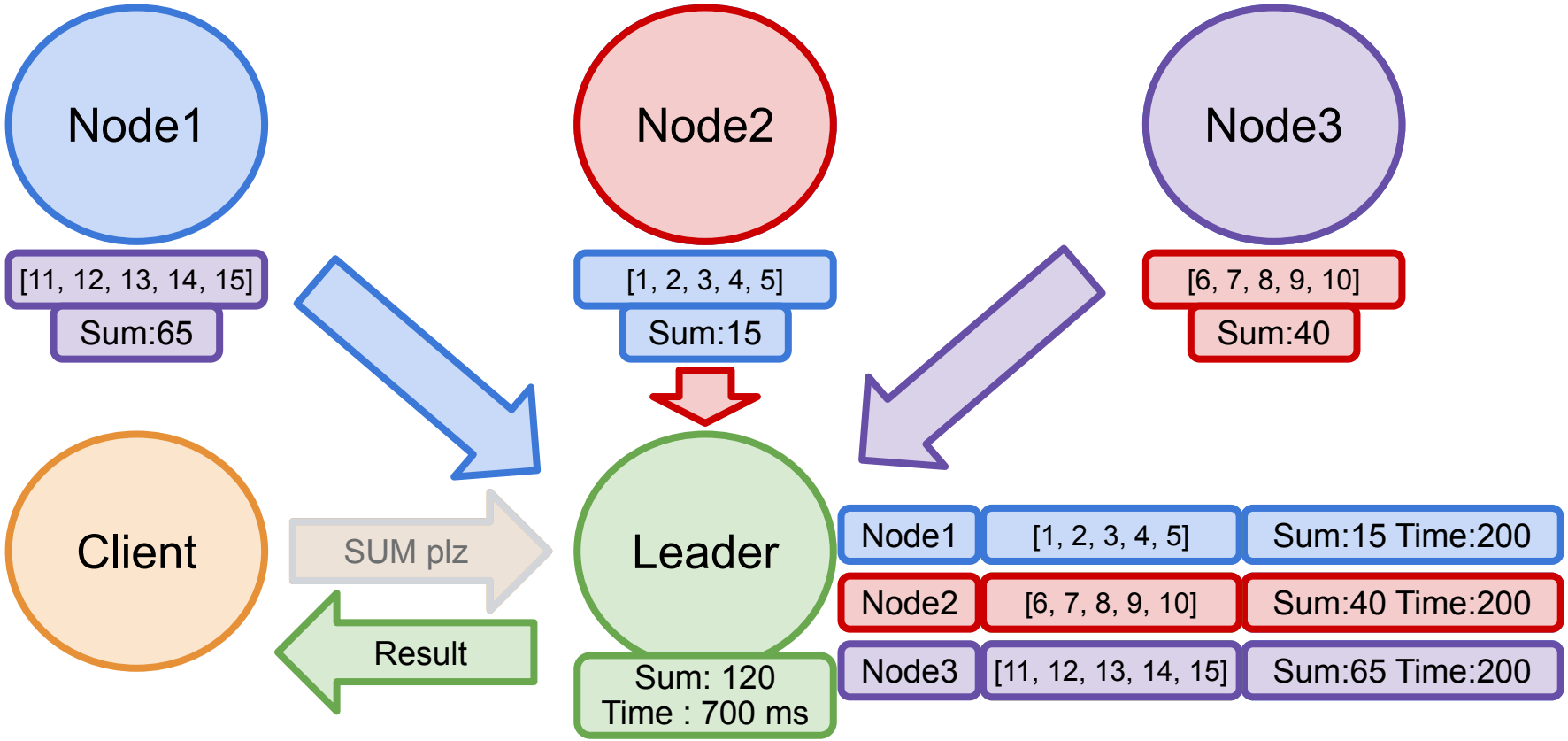


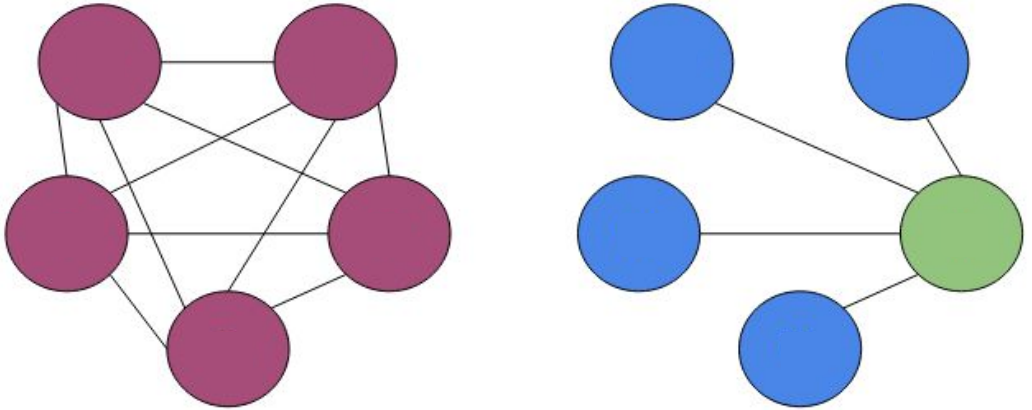
SER 321
Distributed Systems

Main and Worker

Peer to Peer

Which is which?

Check out the recording for the discussion!



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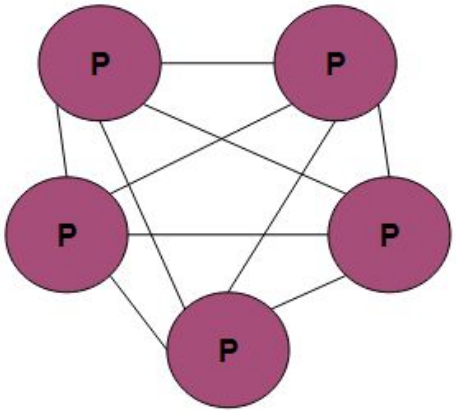
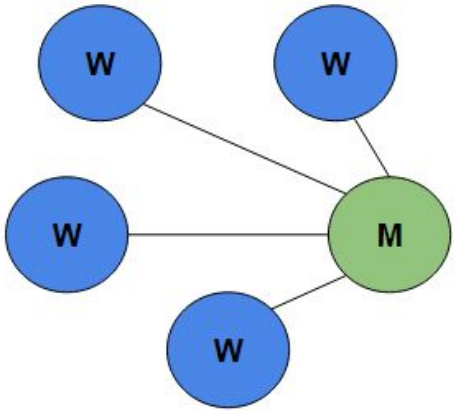




Main and Worker

What structure did we depict in the assign 5 example?

SER 321
Consensus

"General agreement or trust amongst a group"

Types of Consensus?

Leader Election	→	Who's in charge or keeping the beat
Result Verification	→	Check your work with a neighbor
Log Replication	→	Verify and maintain my copy of the data
Node Validation	→	Do I want to let you into my network

Check out the recording for the discussion!

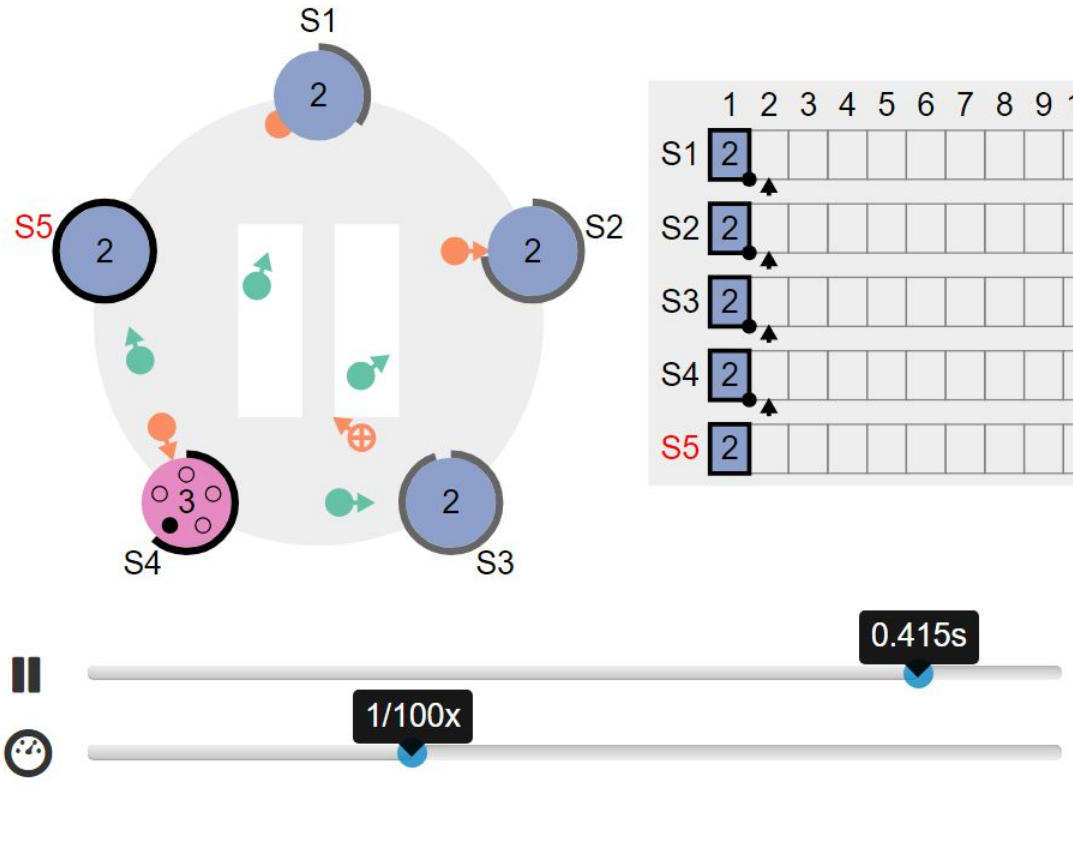
SER 321
RAFT

Check out the recording for the discussion!

RAFT is a great consensus example!

Leader Election

Log Replication



The Secret Lives of Data is a different visualization of Raft. It's more guided and less interactive, so it may be a gentler starting point.

SER 321

Scratch Space

Upcoming Events

SI Sessions:

- Tuesday, November 26th at 10:00 am MST
- ~~Thursday, November 28th at 7:00 pm MST~~ **CANCELLED - Happy Thanksgiving!**
- Sunday, December 1st at 7:00 pm MST - **2 hour Review Session**
- Tuesday, December 3rd at 10:00 am MST - **Q&A Session**

Review Sessions:

- Sunday, December 1st at 7:00 pm MST - **2 hour Review Session**
- Tuesday, December 3rd at 10:00 am MST - **Q&A Session**

Questions?

Survey:

https://asuasn.info/ASNSurvey

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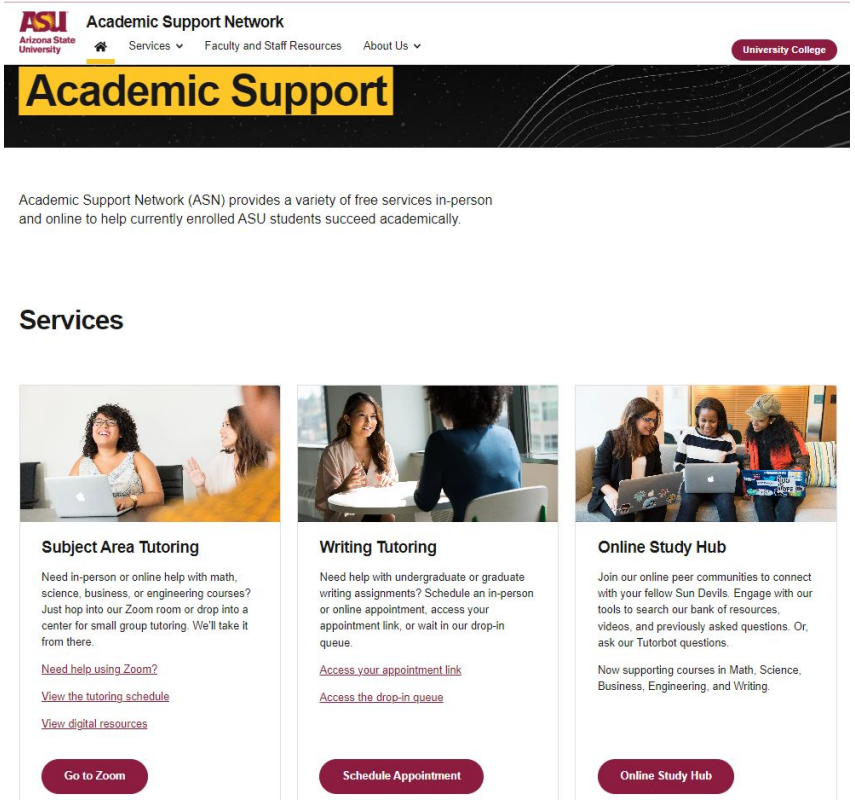
More Questions?

Check out our other resources!

tutoring.asu.edu

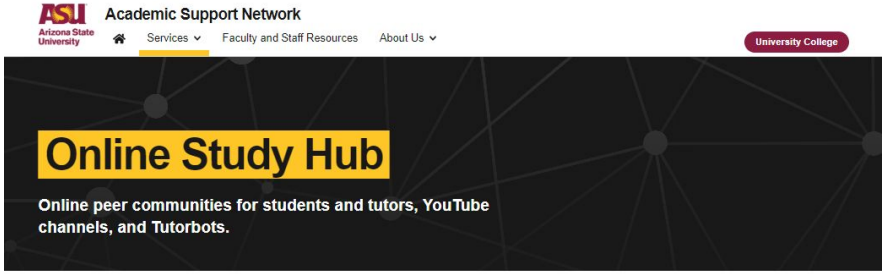


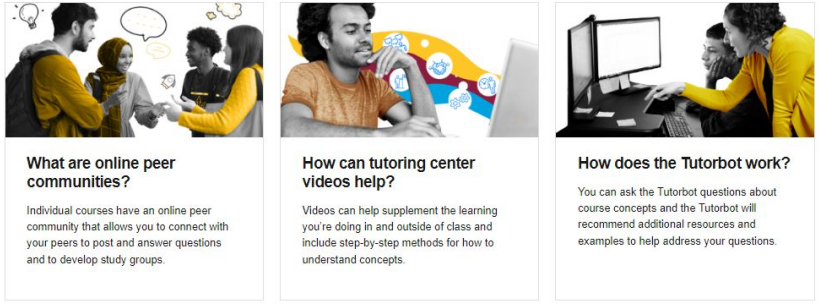
1. **Click on ‘Go to Zoom’ to log onto our Online Tutoring Center.**
2. **Click on ‘View the tutoring schedule’ to see when tutors are available for specific courses.**

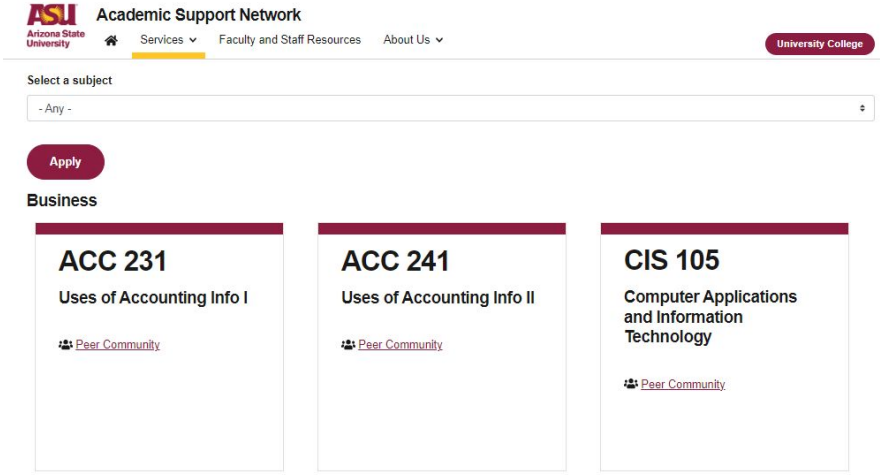
More Questions?

Check out our other resources!

tutoring.asu.edu/online-study-hub



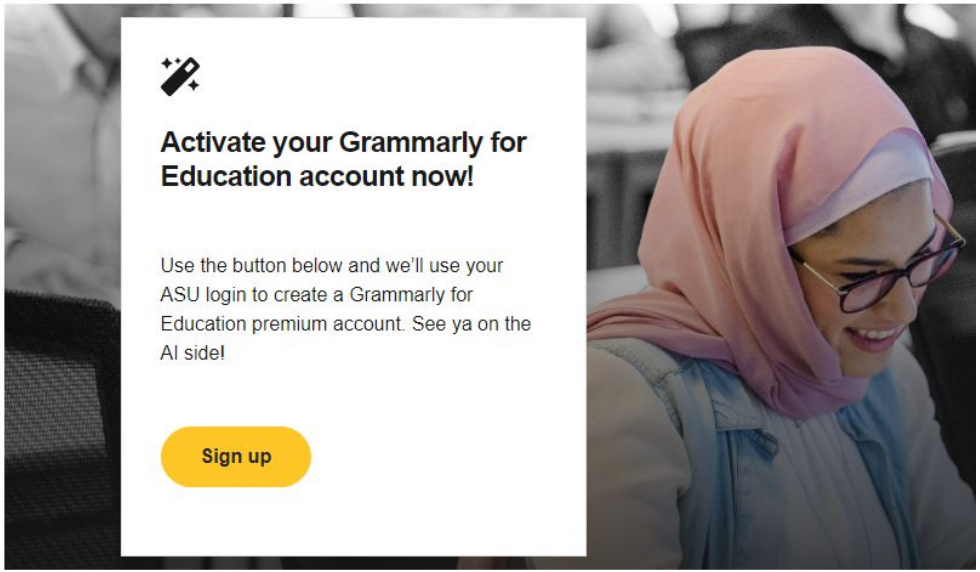




Don't forget to check out the Online Study Hub for additional resources!

Expanded Writing Support Available

Including Grammarly for Education, at no cost!



tutoring.asu.edu/expanded-writing-support

*Available slots for this pilot are limited

Additional Resources

- Course Repo
- Gradle Documentation
- GitHub SSH Help
- Linux Man Pages
- OSI Interactive
- MDN HTTP Docs
  - Requests
  - Responses
- JSON Guide
- org.json Docs
- javax.swing package API
- Swing Tutorials
- Dining Philosophers Interactive
- Austin G Walters Traffic Comparison
- RAFT