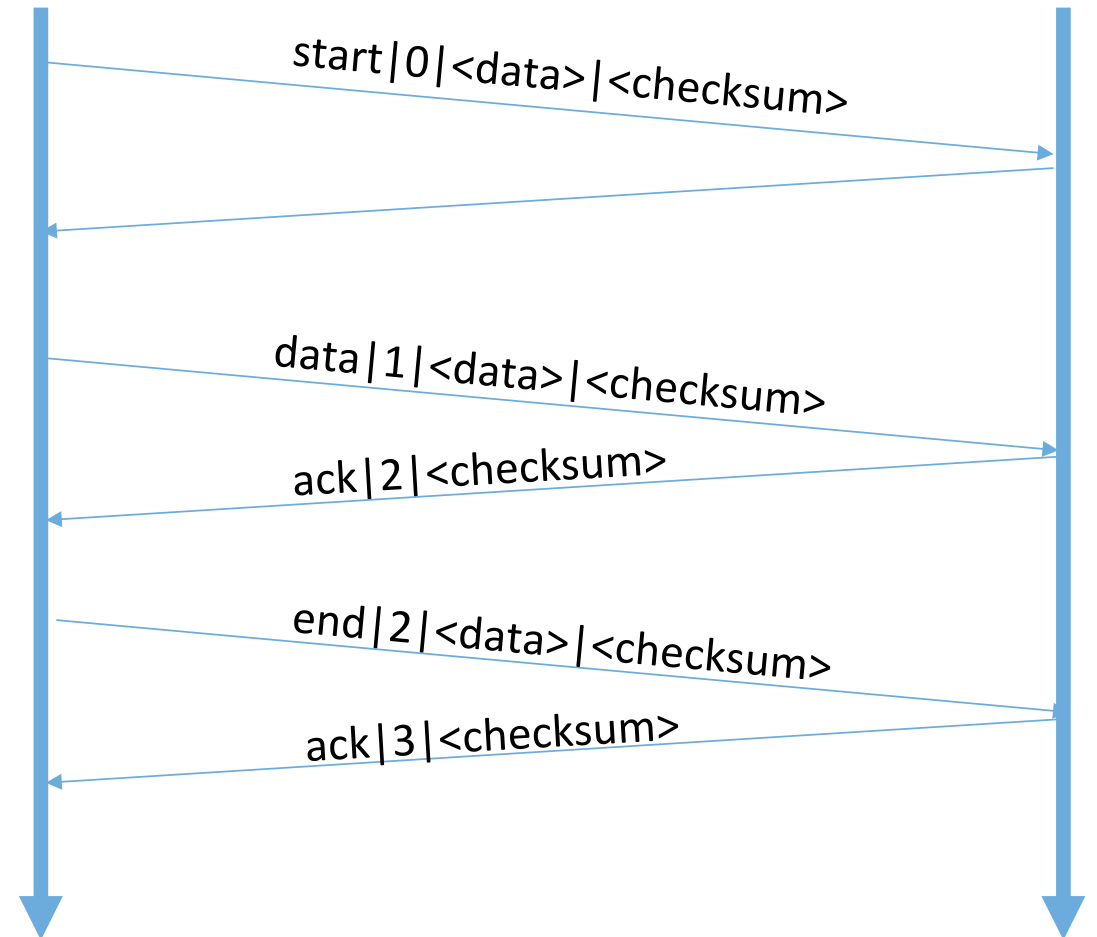


Project 2 – Implement Reliable Transport

- Bears – TP: A simple reliable transport protocol based on GBN
 - Receiver code is provided
 - Only implement sender
- Basic requirements (85%) , deal with:
 - Loss, corruption and reordering
 - Duplication and delay
- Performance requirements (15%):
 - Fast retransmit
 - Selective acknowledgement

Protocol

- Packet types:
 - Start, data, ack, end, and sack
- Sliding window size: 5 packets
- Receiver returns cumulative acknowledgement



Sender

- The sender should be able to send a file to the receiver
`python Sender.py -f <input file>`
- Implement a Go Back N based sender
- It should have a 500ms retransmission timeout
- It **must not** produce any console output

Test and Grading

We provide TestHarness.py for testing

- and a similar version of TestHarness.py is used for grading

Tips:

- Start your project early
- You may start with “Stop-and-Wait”
- Write your own test cases

Logistics

- GSIs: Peter, Radhika and Akshay
- Additional OH for help with the project – will be announced on Piazza
- These slides, Spec and code online midnight, today
- Due Nov 2, at noon.