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Possible workflow of the receiver

Start

Any space available in buffer (circular queue) ?

No

Yes

Build next expected in sequence datagram into buffer with tag 'missing' (not yet received)

Try to receive datagram from sender

Send **cumulative ACK** for any recv'd datagram to sender (update buffer to reflect, remove 'missing')

Is the lowest seq # (next to go to application) datagram in buffer received and ACK'd? (not missing)

No

Yes

Remove lowest seq # datagram from buffer and deliver to application sequentially

Slide the window

No more data is being received from sender (timeout)

No

Yes

End