Sliding Window Flow Control

Not allowed to transmit

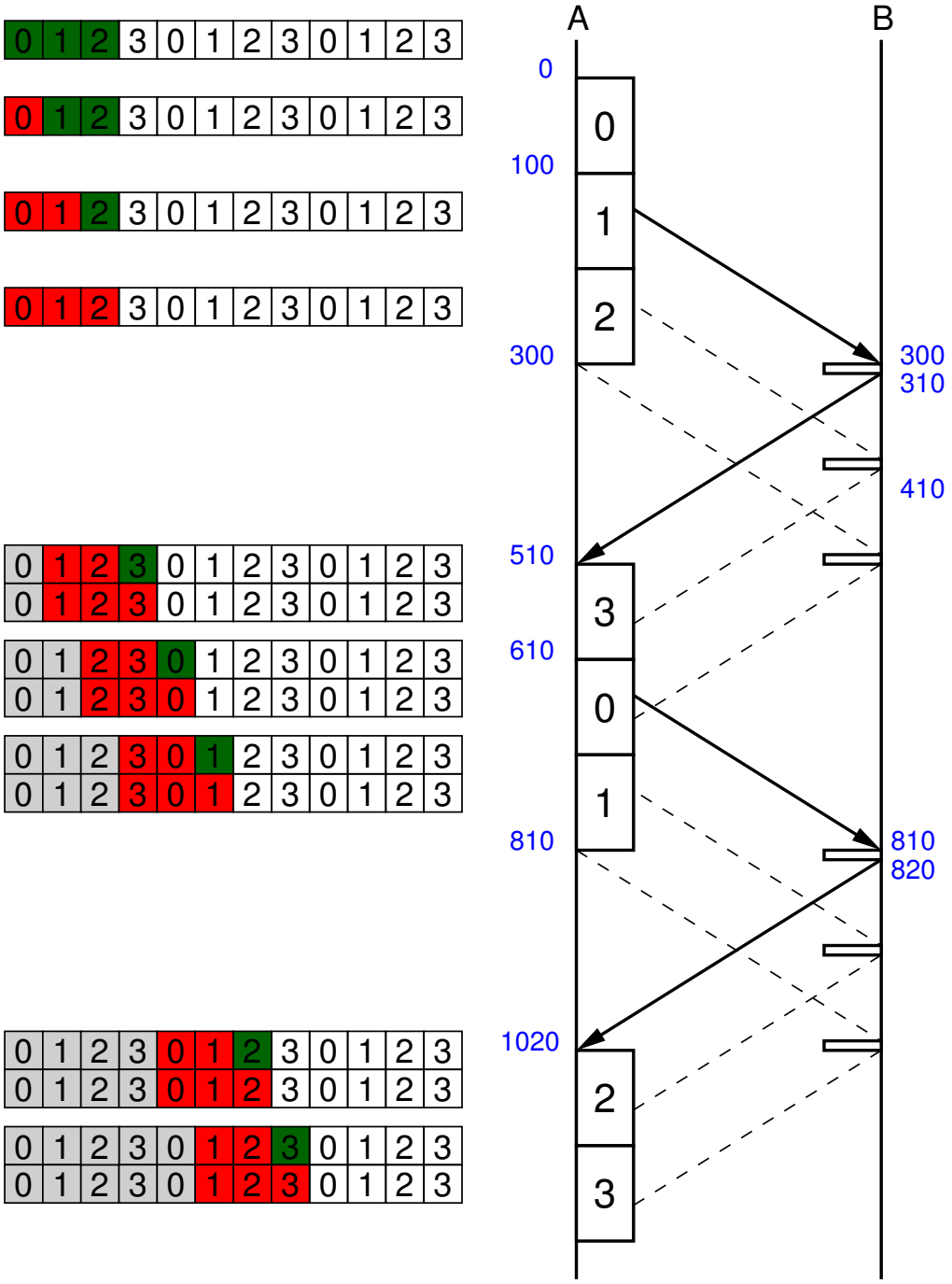
Allowed to transmit

Transmitted; not yet ACKed

ACKed

Propagation = 200
DATA transmission = 100
(90 data, 10 header)
ACK transmission = 10
2−bit sequence number (W=3)

Note: units are not given



Performance:

A sends 3 frames to B then must wait for ACK of 1st frame; then can send another 3 frames.

A delivers 3 frames to B every 510

Each frame is 90 of real data

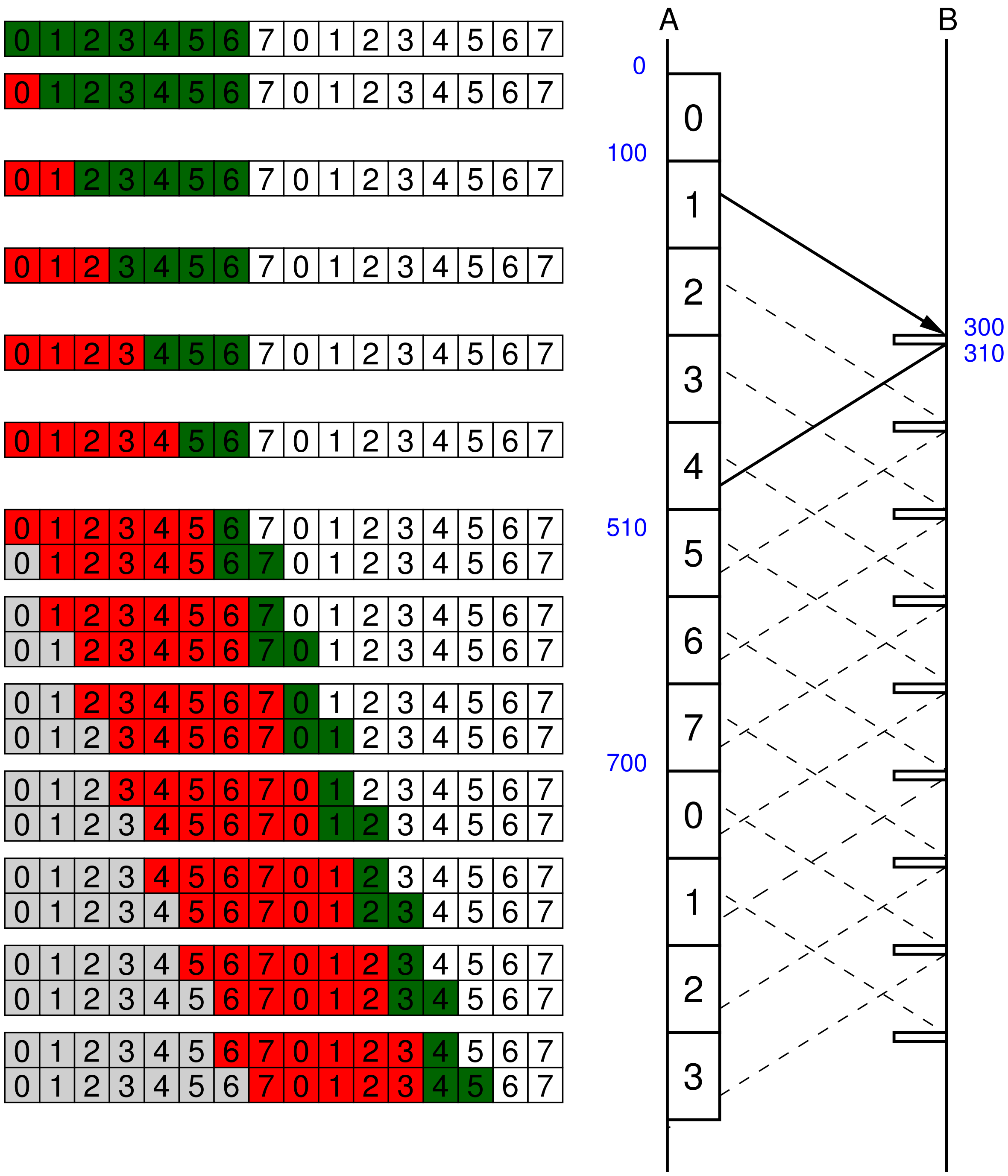
Efficiency: 3x90/510 = 52.94%

Sliding Window Flow Control

- Not allowed to transmit
- Allowed to transmit
- Transmitted; not yet ACKed
- ACKed

Propagation = 200
DATA transmission = 100
(90 data, 10 header)
ACK transmission = 10
3–bit sequence number (W=7)

Note: units are not given



Performance:

A continuously sends frames to B since an ACK of 1st frame is received before all allowed frames are sent allowing another frame to be sent.
The only overhead is the header.
Efficiency: 90%