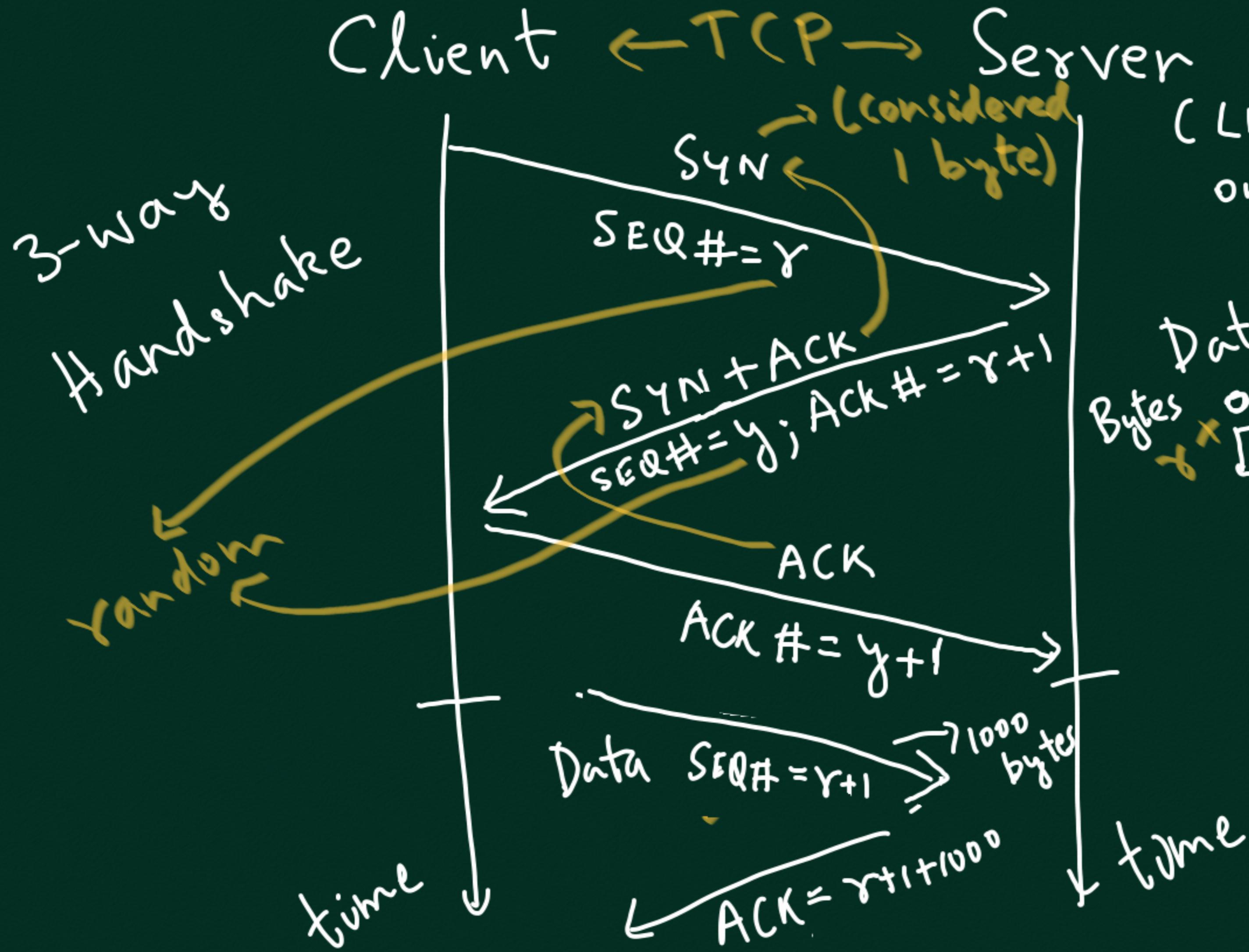


# TCP Connection Establishment

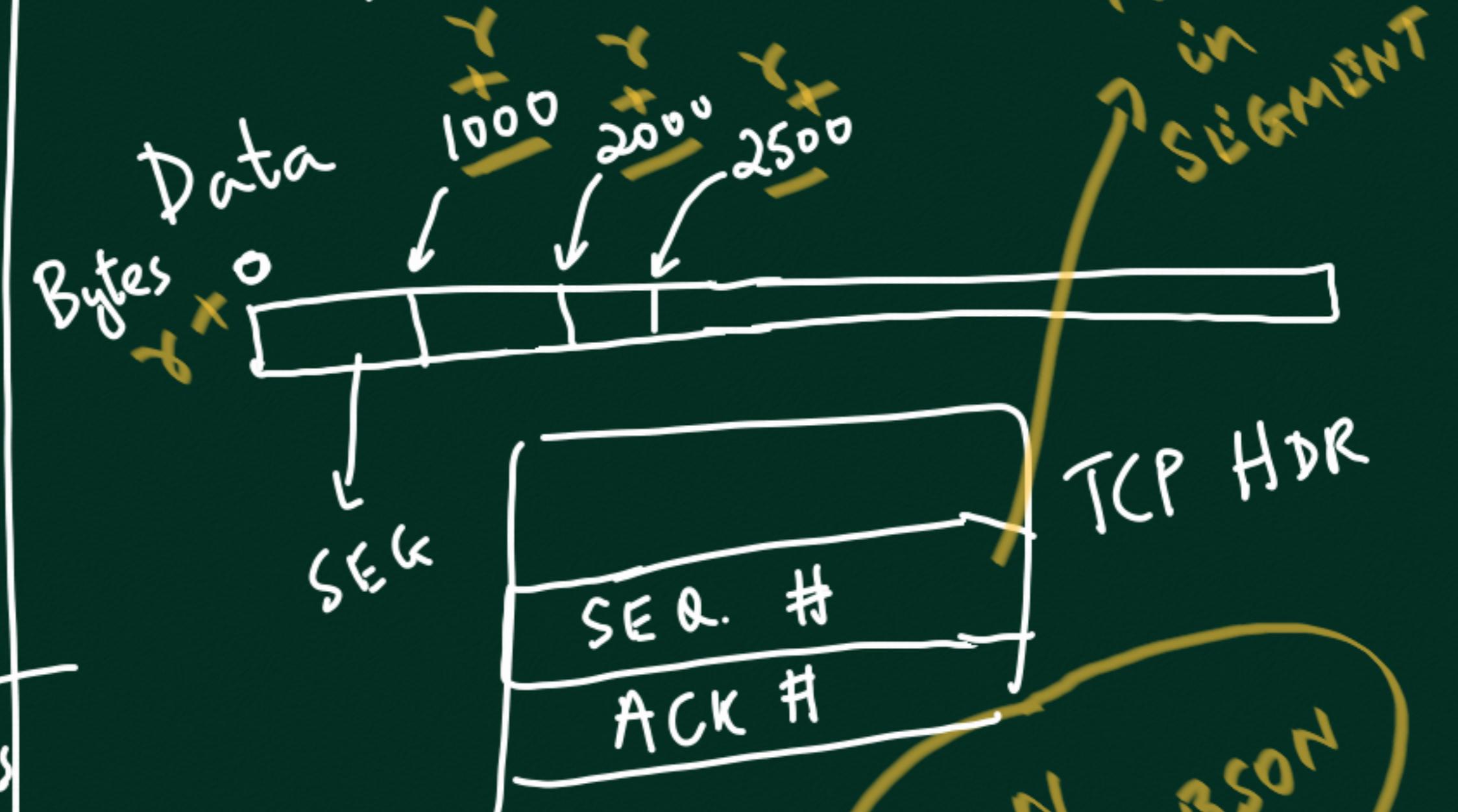


SYN | FIN | ACK |

|

$\Rightarrow \text{SYN} + \text{ACK}$

(LISTEN  
on port (e.g. 80))

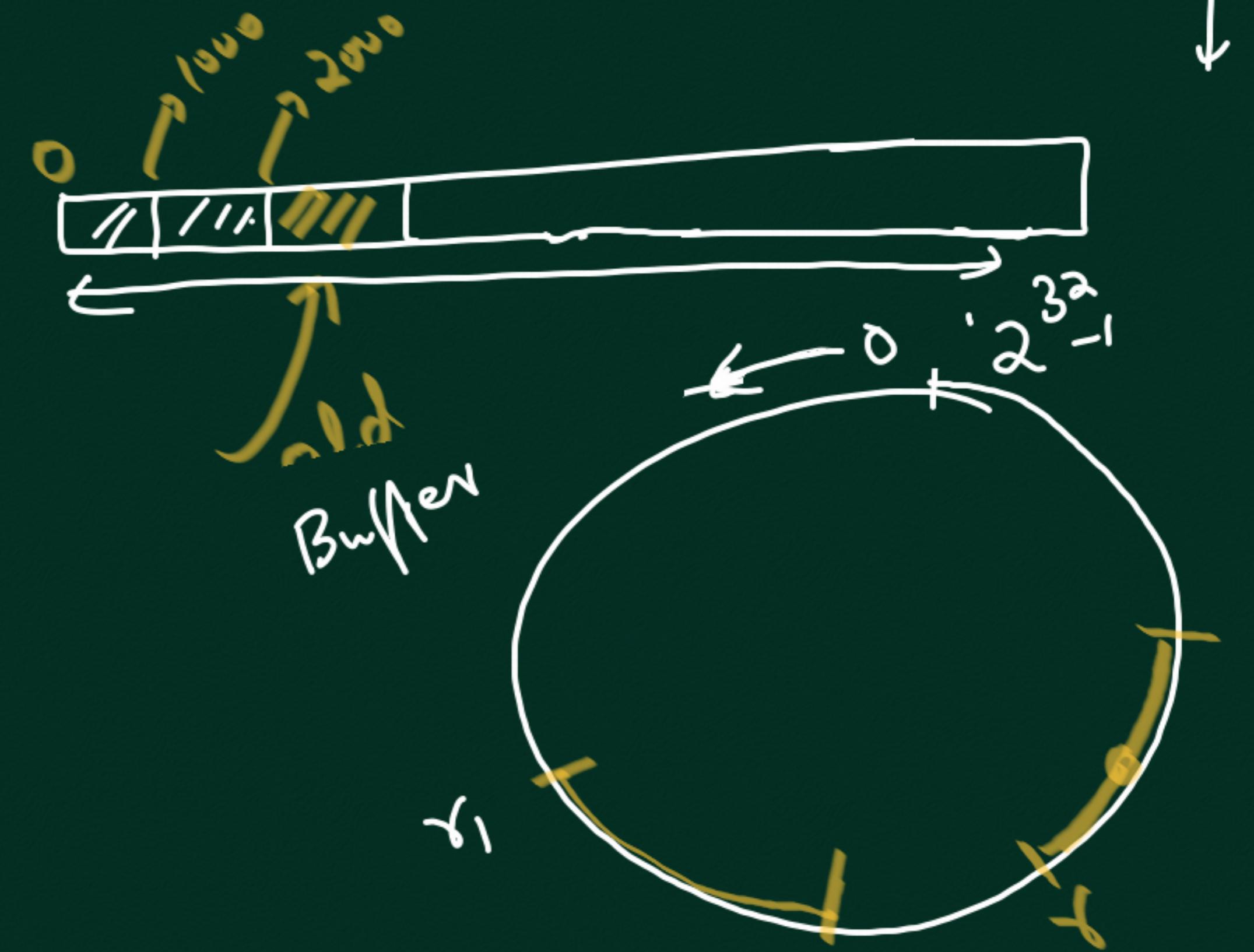
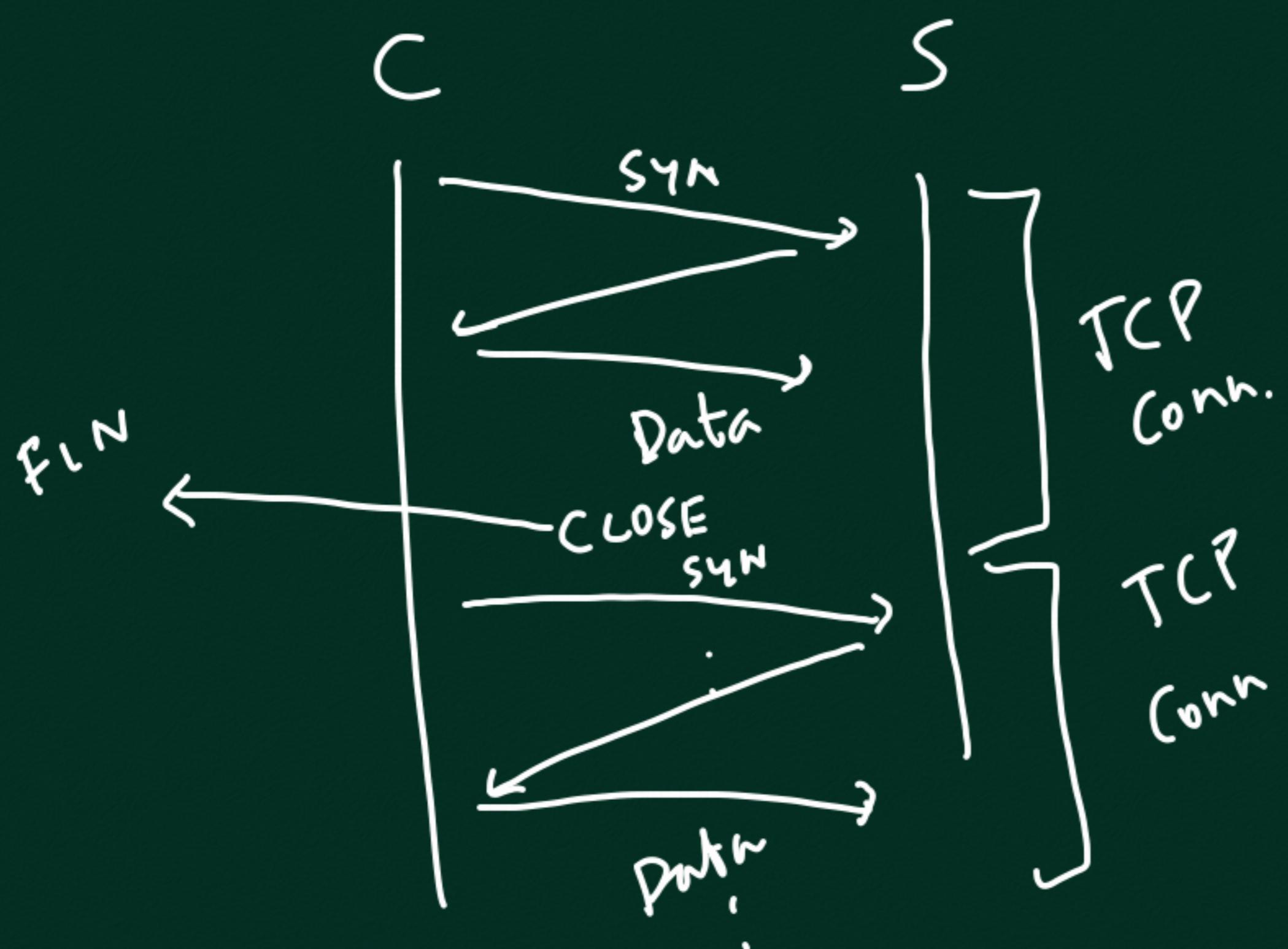


ACK No = A  $\Rightarrow$  GOT Everything from

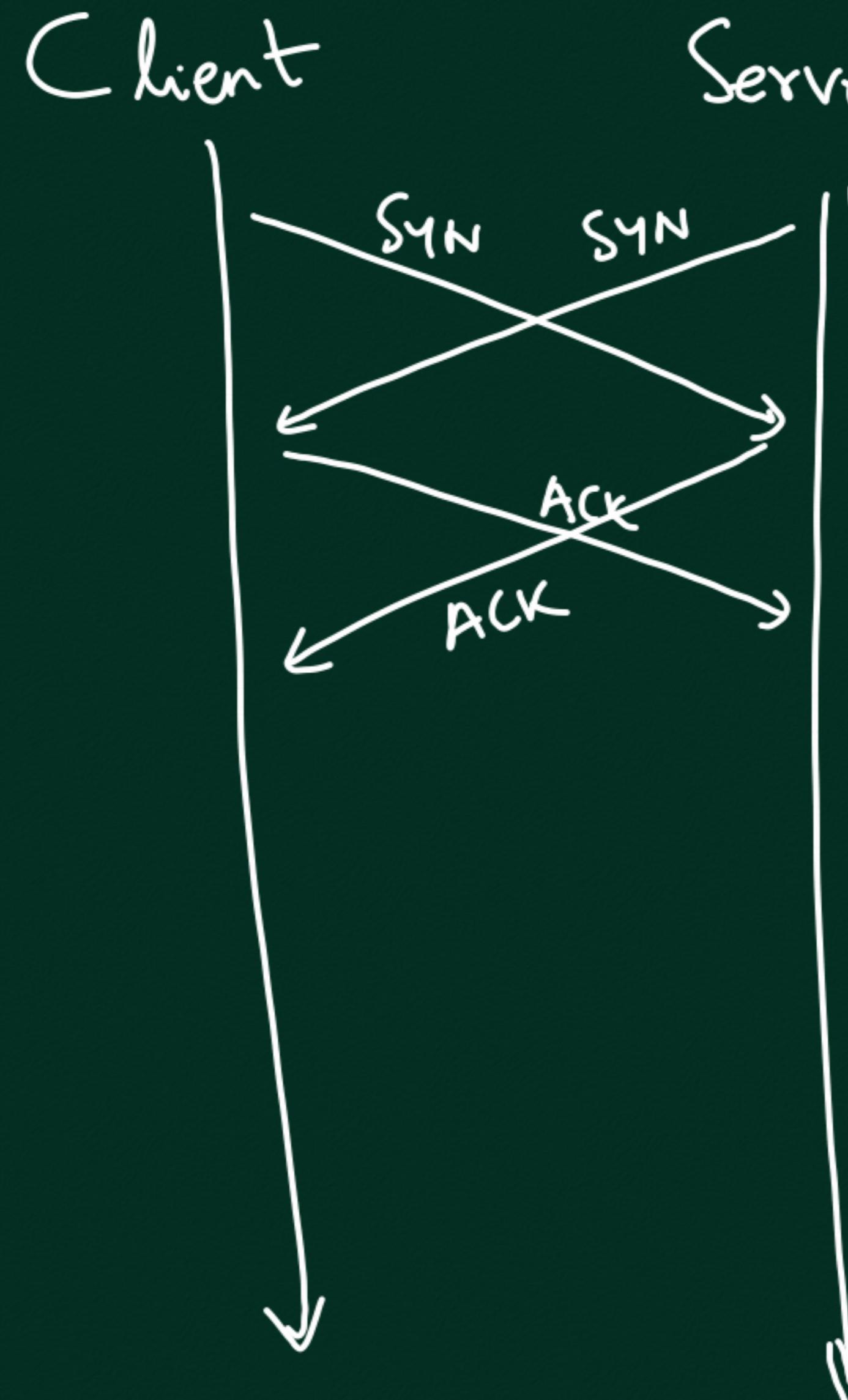
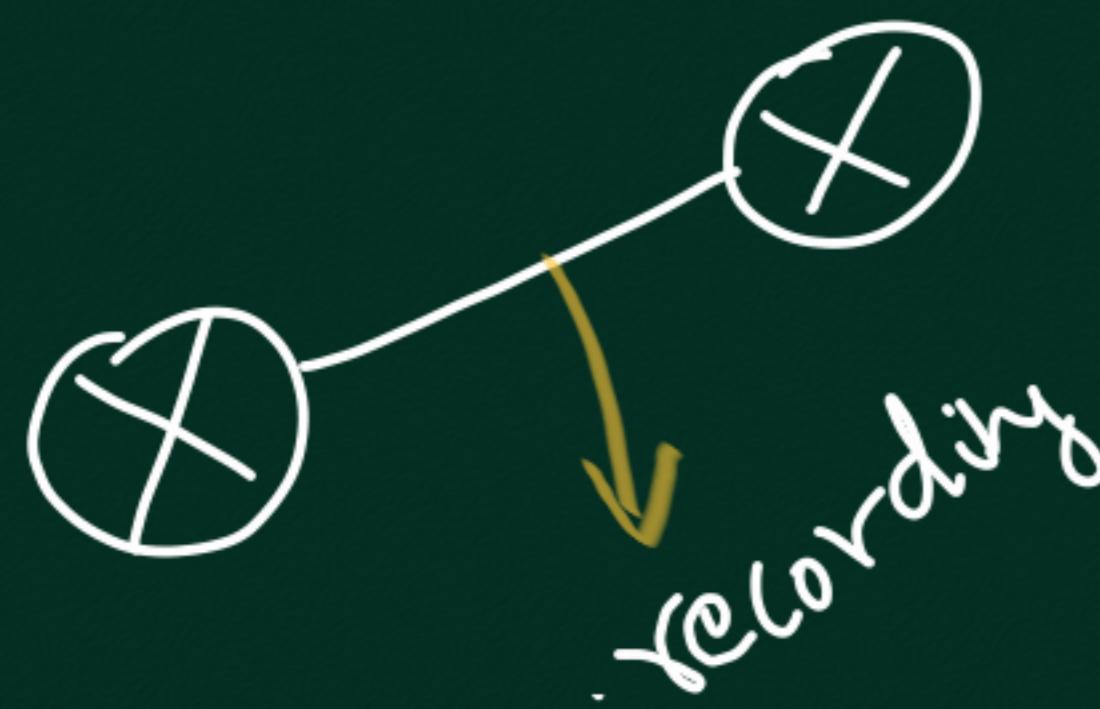
start (SYN SEQ#) TILL Byte A-1,

SEQ#: 32 bits

Expecting Byte A next.



4-way  
handshake



How to identify a

Particular TCP Connection?

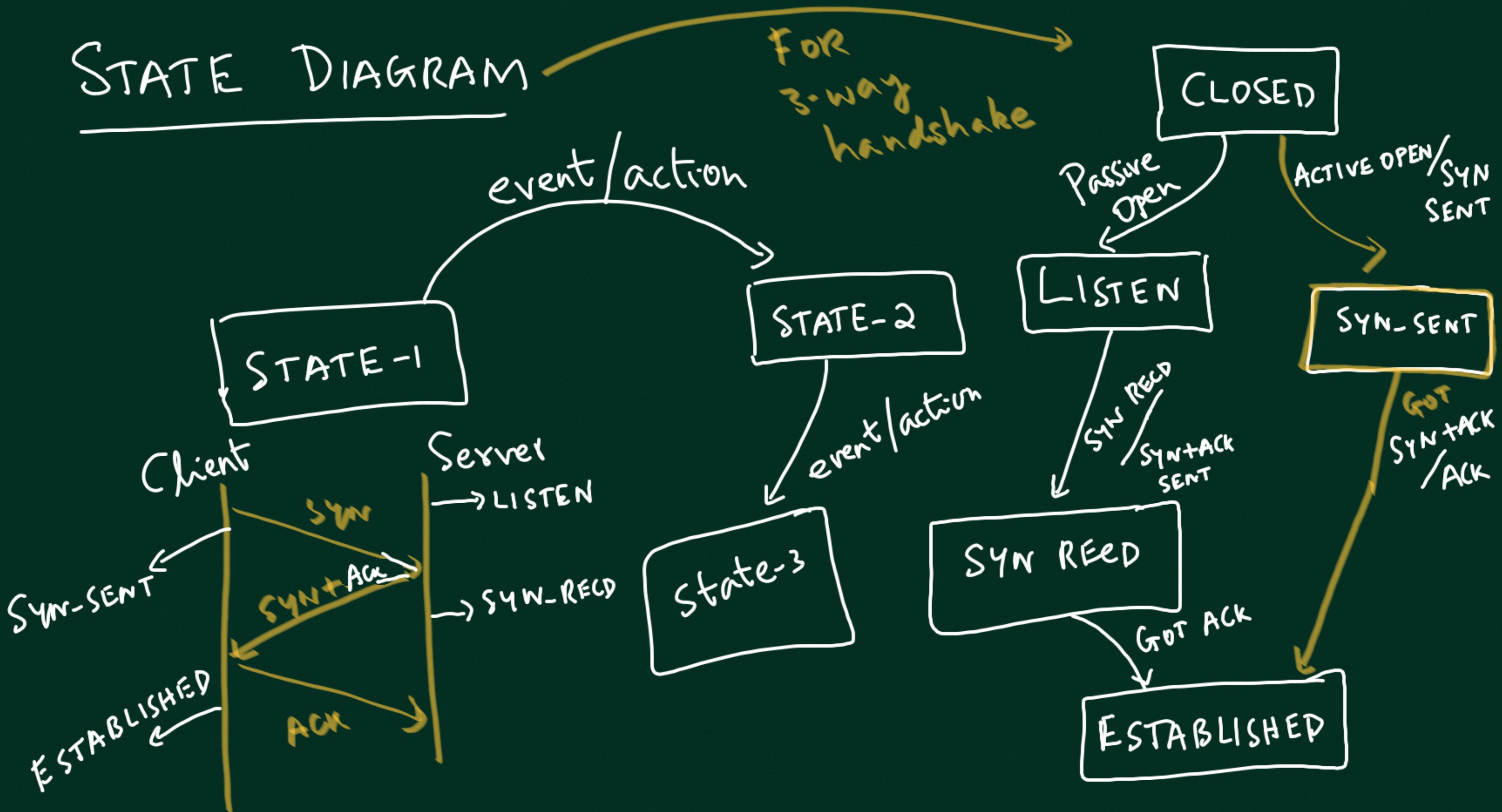
IP : SRC IP, DST IP

Ports : SRC PORT, DST PORT

PROTOCOL  
(IP HDR) : (INDICATES  
TCP)

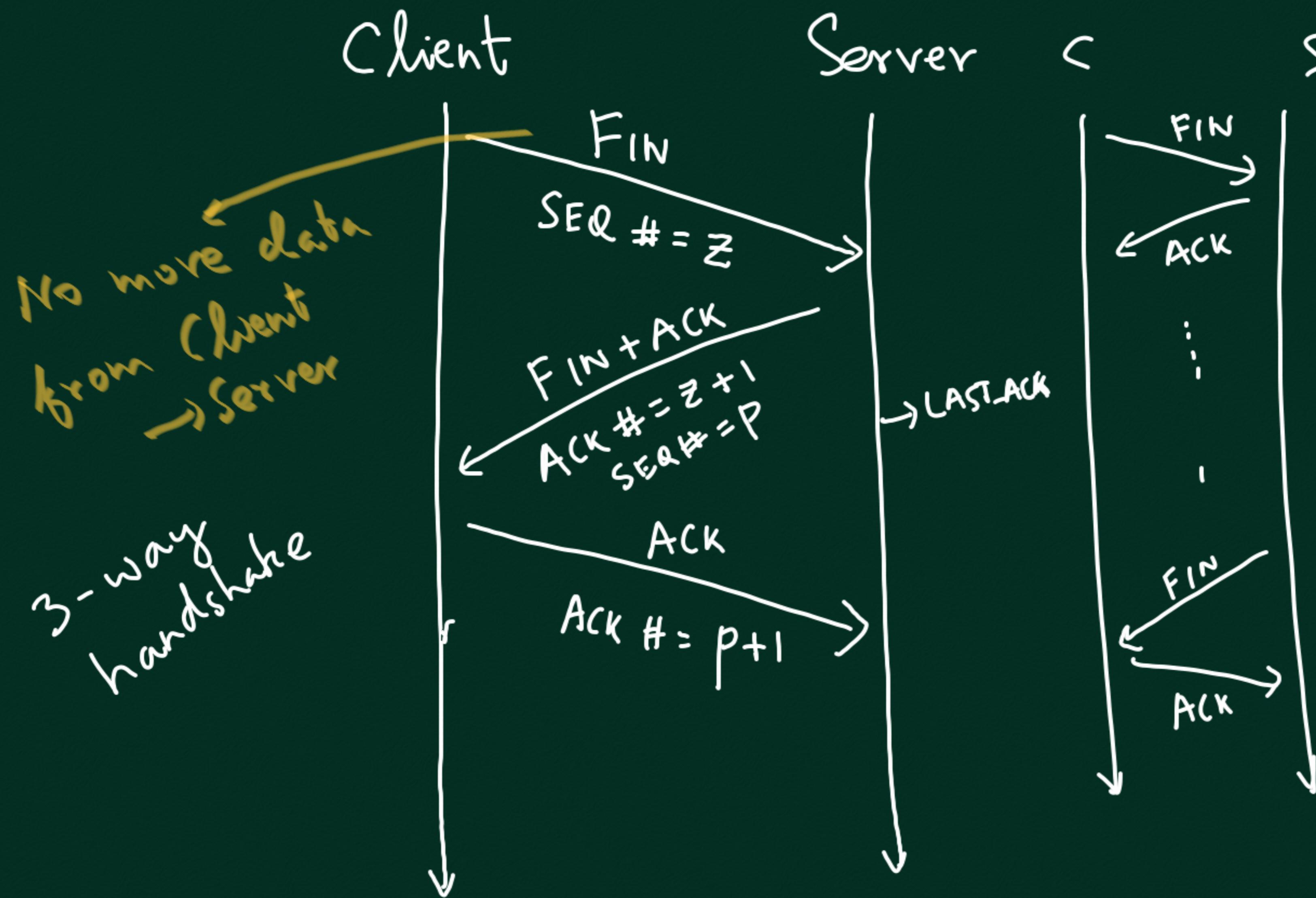
5-tuple

# STATE DIAGRAM



## CONNECTION

## TERMINATION



# STATE DIAGRAM

