# Exercises

## R3 How is UDP socket fully identified? What about TCP socket? What is the difference between the full identification of both sockets?

UDP: Destination IP, destination port.

TCP: Destination IP, destination port, source IP and source port.

TCP can have two different sockets from the same client machine on two different ports from the client.

## R7

Yes these messages will be sent to the same socket.

## R12

1. Packet 1 received out of order. And no ack is returned. Then client should timeout and send everything again.
2. The client timesout and sends packet 1-4 again.
3. You can not. Window size = 5.

## R13

1. Packet 1-4 is acknowledged, and the client timeout packet 0 and sends it again. The server is buffering the other answers expecting the first to be sent again.
2. The same thing happens except, the server is not expecting more packets 0-4, and recognizes it as duplicate and just sends a ack on packet 0 again.
3. You can not. Window size = 5.

## P9

A white board with writing on it

Description automatically generated with low confidence

## P19

A white board with writing on it

Description automatically generated with medium confidence

Timeout is important, as s4 could arrive later.

## P19 (Selective repeat)

A white board with writing on it

Description automatically generated with medium confidence