Ream

Port
IP
IP
MAC

friendly Addr
DNS

web --
Serve
PC

DHCP

PC

face

High
App   HTTP/s — DNS — FTP — teln
Pres
Session
Transr
Net
Dat
Phy

Dow   Browser   web serv   file serv
strt   80
sgr.
        PC   Port No.   Serv

                                    Message
                                    → Segment

Trans Port   src port   Packet/Datag
                   Dst Port   ram
  ①   H4   ℗
                                    → Frame
→ Process - to - Process
                                    Bits
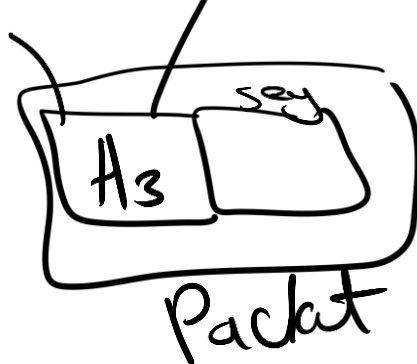
② ~~Communication~~
Connection-oriented
TCP   UDP

③ Segmentation

src Dst seg-ID
src
por
segment
Hdr ___

Message → S1 | S2 | S3

④ Flow Control

⑤ Error Control
Detect / Corr

⑥ Congestion Control

src IP Dst IP
seg
H3

Packet

① Host-to-Host

② Routing

Src
Mac

Dst
Mac

H₃ Pkt I

Frame

A₂ A₁

Pc

src AA

P_f MR₁

R₁   R₂   R₃

B₁ B₂

R₂

BB
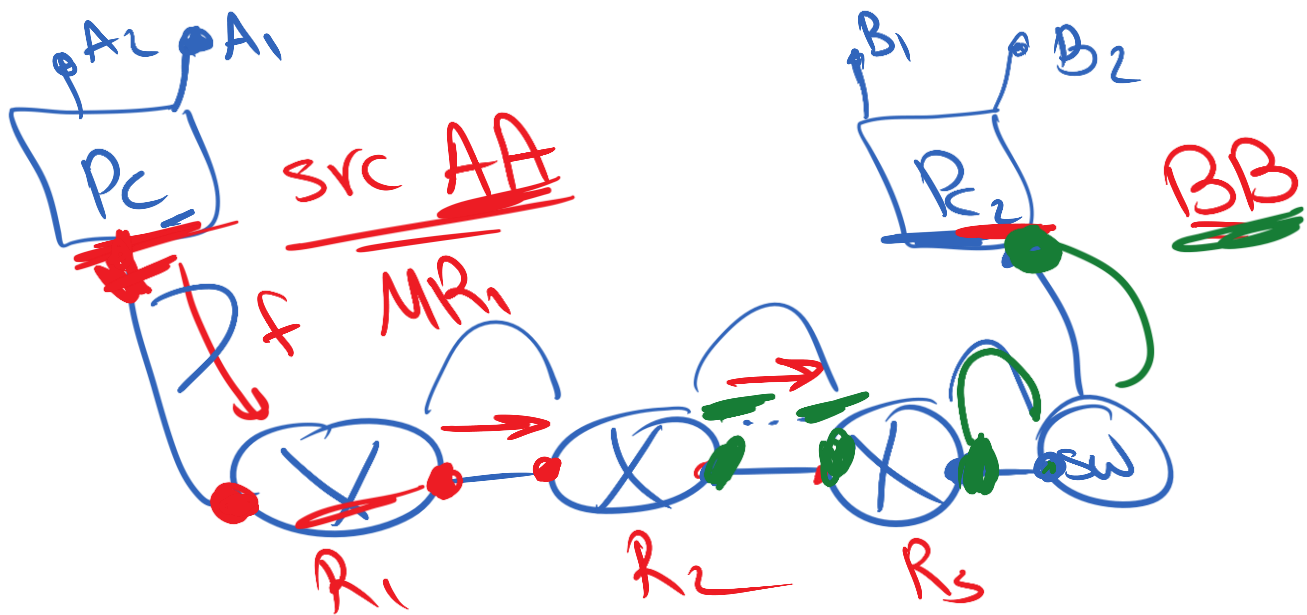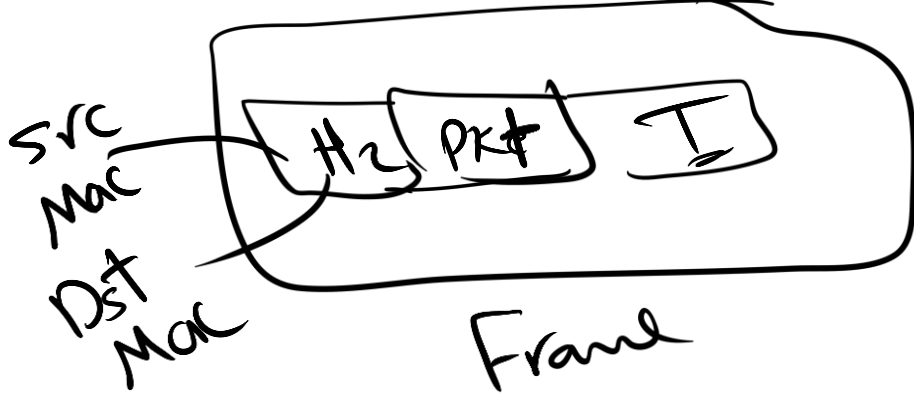
① Hop _to _ Hop

② Error /Contr

③ Flow Contr -