Networking Finale

Two parts:

* Short questions (protcols, different parts of layers)
* Longer questions, calculations…
* Check homeworks

Which protocol to which layer

* For exampel chapter 2
  + Typical protcols in…
  + Mailing protcols
* Chapter 3
  + UDP TCP
* Network layer (chapter 4)
  + 4-31
* Networking layer
  + 6-70

Chapter 4-5

* Data plane
* Control Plane
* What is the difference between them
* Why is the network plane separated, motivation behding it

Chapter 5

* Two ways to implement control plane
  + Why do we need both approaches
  + Why is the control plane intergarted logicaly

Chapter 6

* What is the most important thing in link layer
* Mac address
* Switches
* Ip address routers
* Store and forward
* Understand the different between router and switch
* Difference between network and link layer
* Difference between Ip and Mac address
* Mac protocols
  + 6.40 !important
  + Which kind of protocol is valuable
  + 3 parts
    - Channel partitioning
    - Random access
    - Taking turns

Next part long questions

* TCP/network layer/link layer
* Chapter 4
  + 4.33,34,
    - Ipv4 fragmentation
    - How to resemable them at the destination
  + Ipv6
* Chapter 5
  + Link state, distance vector
    - Dijikstra algorithm 5.14
* Chapter 6
  + Link layer
    - Error detection
    - Error correction
    - 6.13,14,15
      * Cyclicic redundancy check

TCP problem

* 3.43,43,45,46…
* The sender utilization is slow
  + Pipileining to improve it
  + Go back N
  + Selective repeat
* 3.50
* 3.54
* Fast tcp 3.68, 71, 72