

Question1: (a)

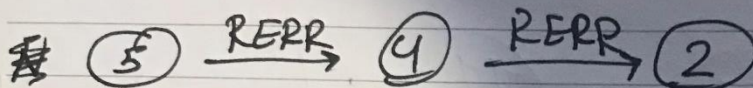
Subject:

Mohammadali Rahnama

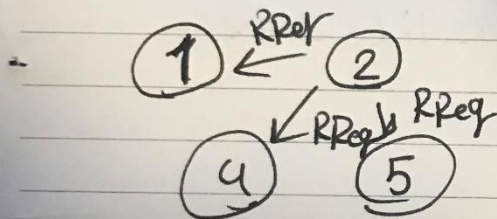
19061006

Q1:

a) when the links brake node 5 will know and send a Rout error back to the sender N2

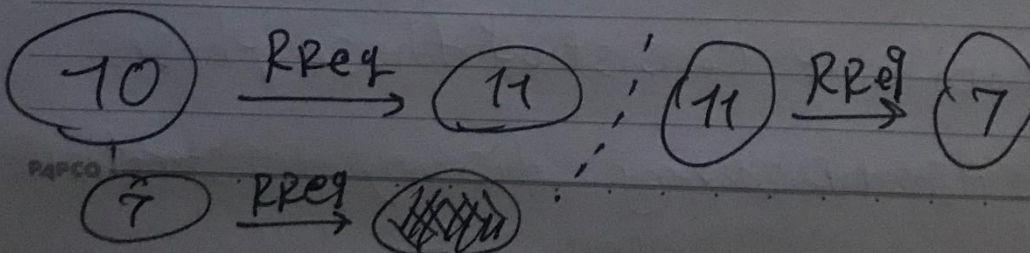
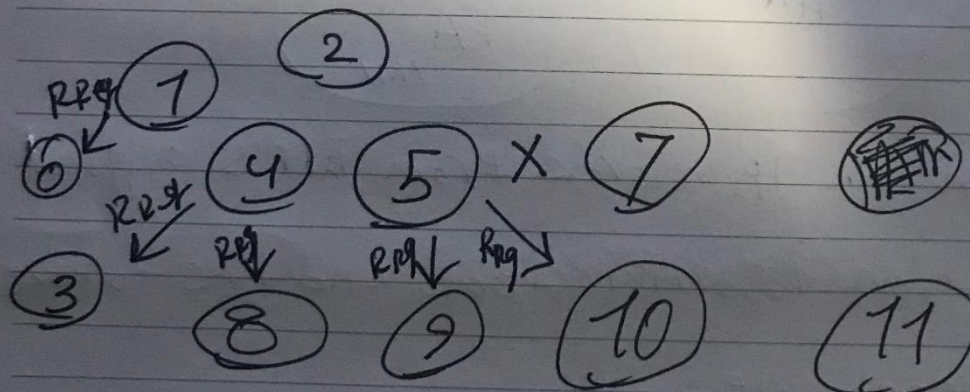


then the sender floods another RouteRequest



after that each node that recieves the

RReq will again flood the request



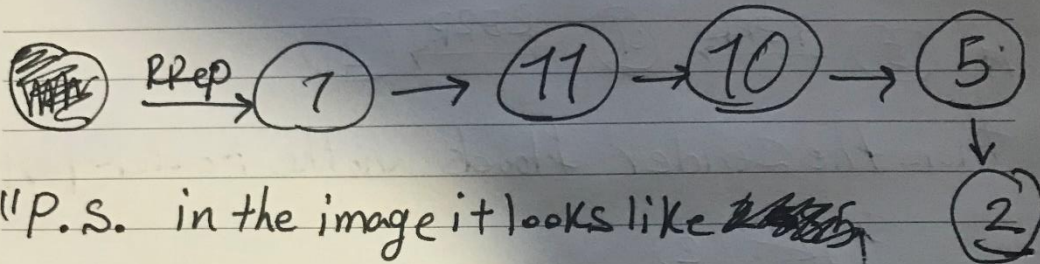
Question1: (a cont. + b)

Subject:

Date:

Sa Su Mo Tu We Th Fr

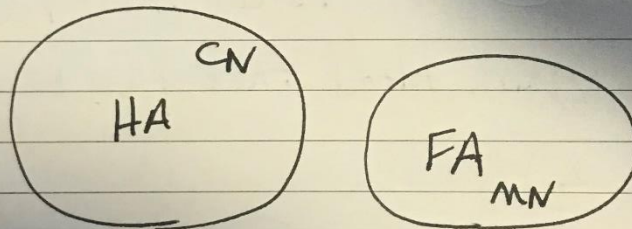
after that the receiver node receives the request it will send back a router reply on the route that was established



"P.S. in the image it looks like ~~2~~

N2 & N5 are in range "

b)



when an IP moves from its original location ~~it is not reachable~~ and has to ~~be~~ be reachable

Mobile IP consist of these Phases:

Agent ~~Discovery~~ discovery, registration advertisement

Question1: (b cont.)

Subject: Q1(b) Continued:

Sa Su Mo Tu We Th Fr

Agent advertisement: All the agent in the network periodically multicast a message called agent advertisement: "I am an agent you can register with me"

Discovery: when a MN receives an advert. it checks if the agent is HA and if it's not it will try to register and obtain the care of address after that it has to let HA know that it has moved out

Registration: MN sends a registration request back to its HA, HA receives and checks the message and ~~binds~~ binds the COA of the MN

after that HA will return a reply message back to MN and MN will know

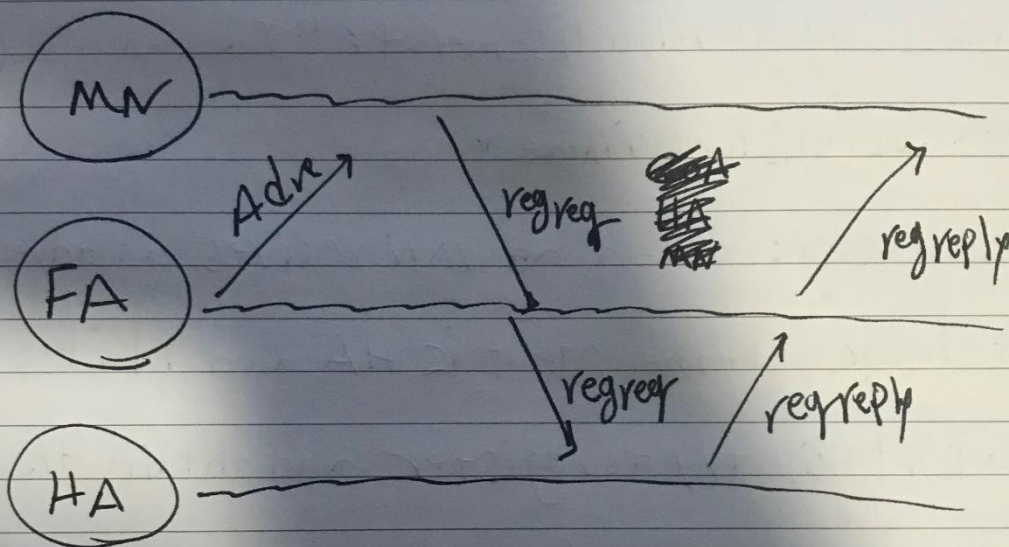
Question1: (b cont.)

Subject:

Date:

Sa Su Mo Tu We Th Fr

after reciving the reply MN Knows that
it has been connected to HA.



the registration message consist of the
new CoA + home address + address of HA
and FA will transfer ~~with~~^{all} the
messages between MN and HA
from now on.

Question 1: (c + d)

Subject:

Date:

Sa Su Mo Tu We Th Fr

Q1(c): this is called a reply attack
915 ID was already used and when
HA ~~receives~~ receives another message with the same ID
it will not register and Issue "registration
error" and a new ~~registration~~ registration reply with
a new ID (327) / this happened because
an ~~attacker~~ attacker tried to register with HA
by sending an old reply message.

d) ~~Ad hoc has a fixed infrastructure~~

~~Ad hoc: In Infrastructureless~~

In Infrastructure: Ad hoc in infrastructure
less but cellular is infrastructure
Dependant

Question 1: (d cont.)

routing: Ad hoc has a multi-hop distributed administration but cellular use a centralized single-hop administration

media: Ad hoc uses a shared radio channel but in cellular networks a bandwidth is guaranteed
