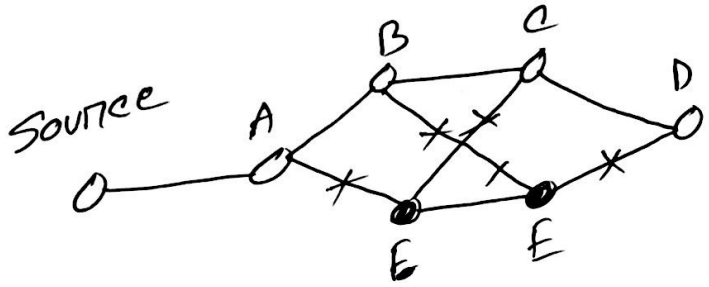
Md Fahimul Islam
2017-1-62-022

1

Linear subnet in not an intelligent and intuitive network to design.
There down below i give a reason why do we still see linear subnet to exist

Sometimes

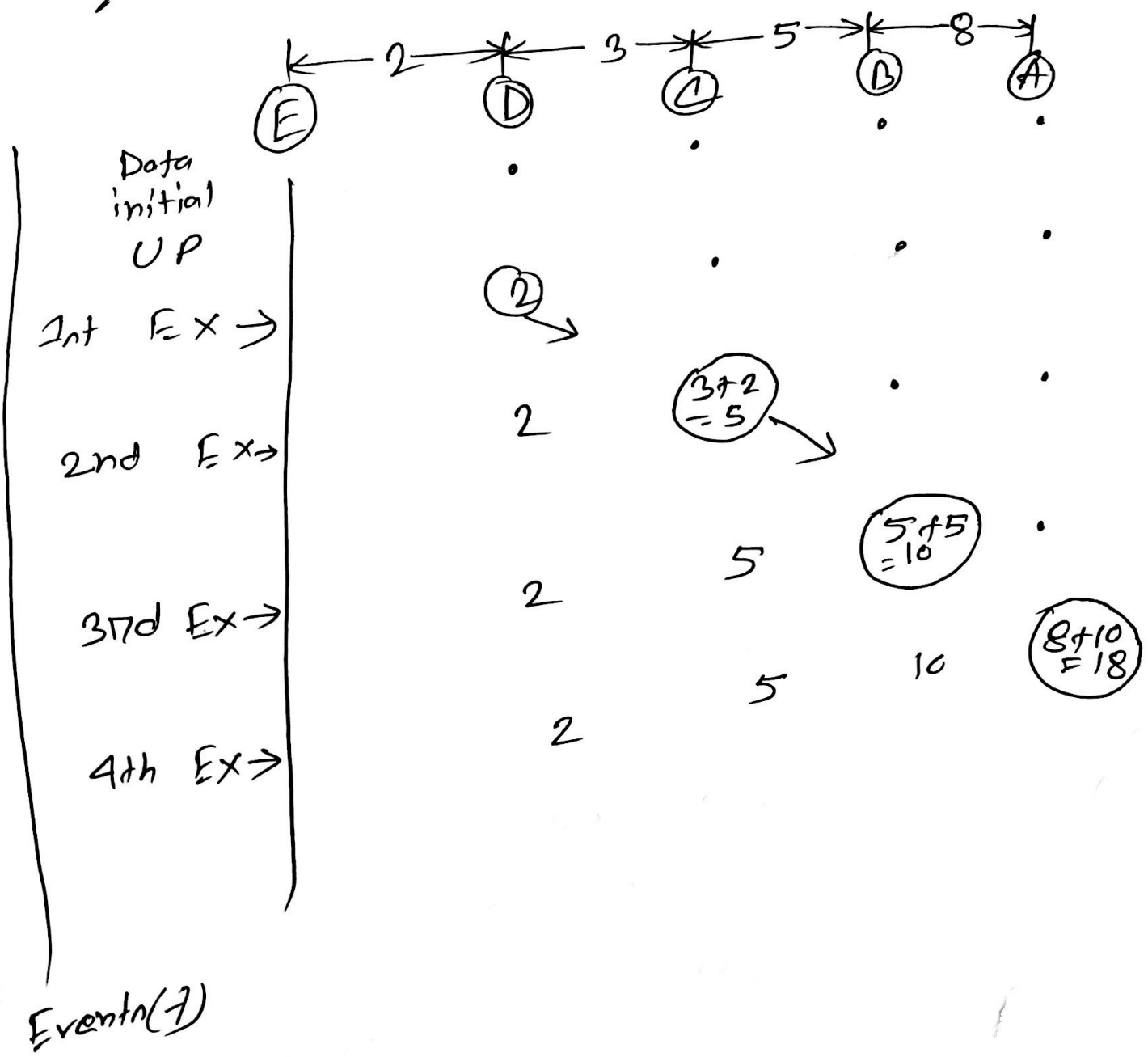


there we see when there connection lost between E, F subnet then there make a linear subnet and that why we still see one linear subnet sometime to avoid this problem

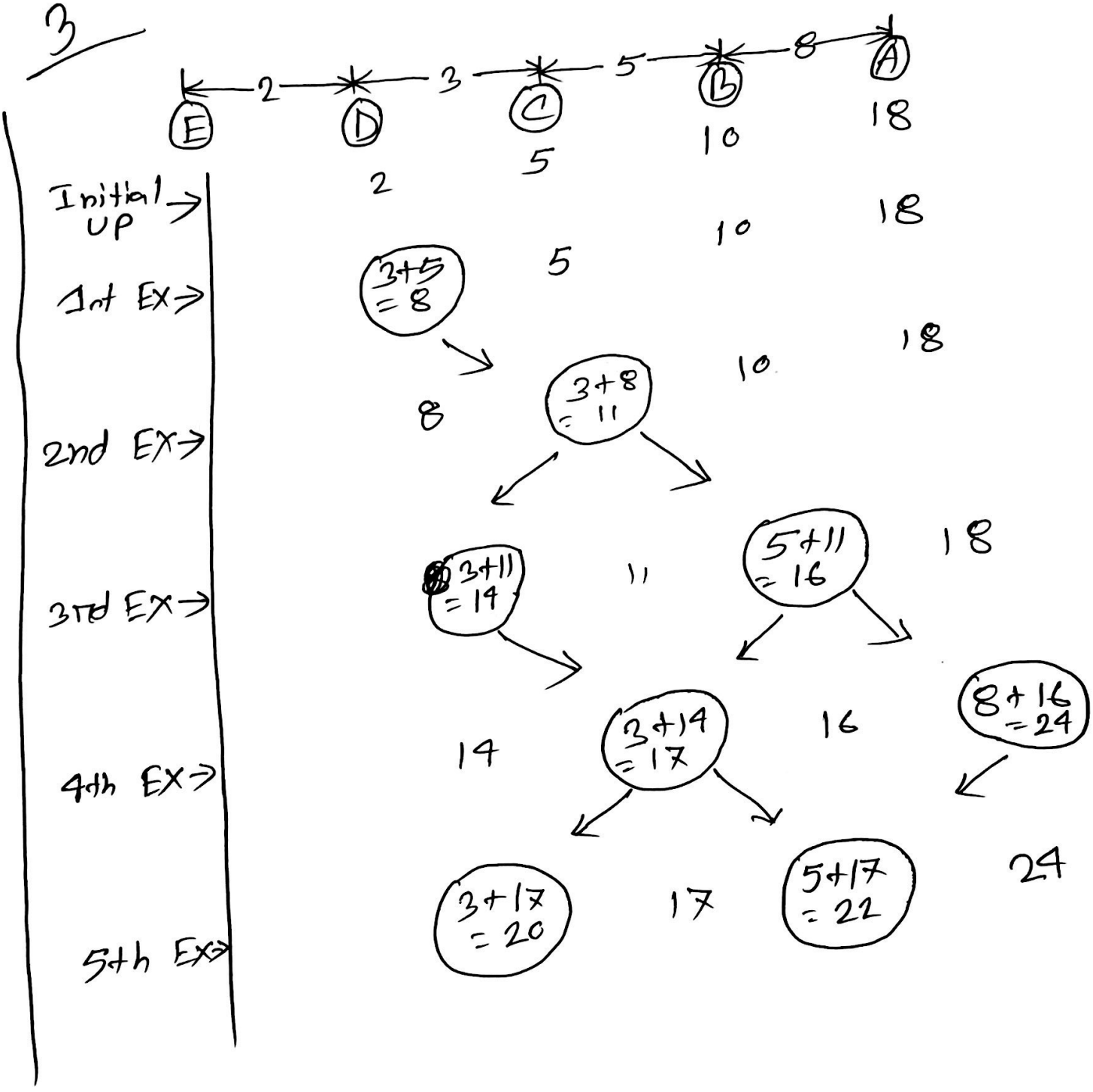
linear subnet that trouble in routed efficiently improving speed and network performance.

linear subnet reduce major congetion and load impact on the network.

2

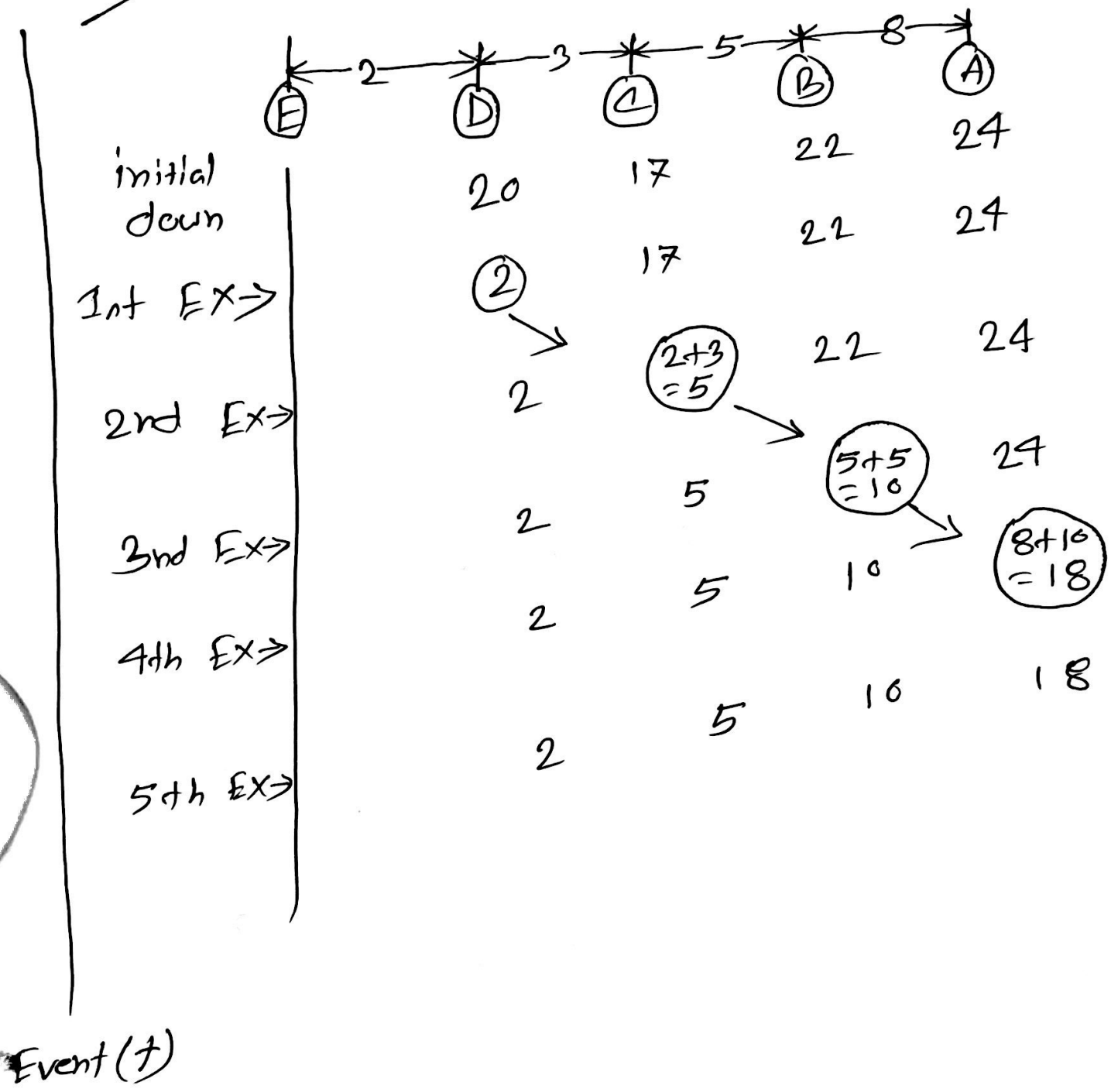


3



Event(+)

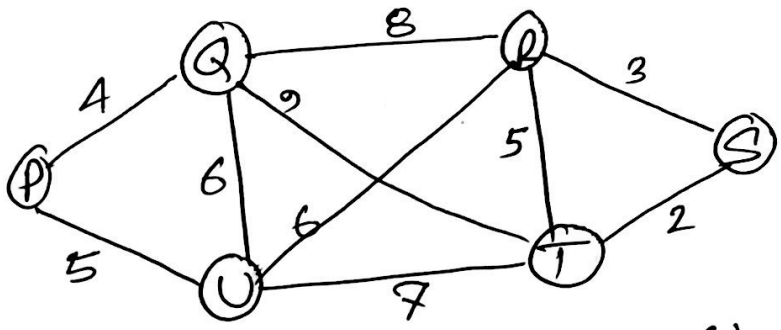
4



Event (↓)

5/

Ans to the Qu no: 02



There link-state for router U in the following subnet.

IP 'U'	
Seqvence no X	
Age	
P	5
Q	6
R	6
T	X

6/

There the duration of age in is long

Sequene there Rest length of

32 bit length

and age = 50s

So, seq#1
seq#2
seq#3
seq#4
seq#5
seq#6
seq#7777777 ok error read wrong
seq#8
seq#9
seq#10
seq#11
seq#12
seq#13
seq#14 ✓

occure
10
10
10
10
10

3

There the seqvence will update after finishing age time

If Age in short Routing table will long Let = 10s at the point If will miss any next packet then the bubbering packet their all information will be long.

If age in very long like at age in = 500s

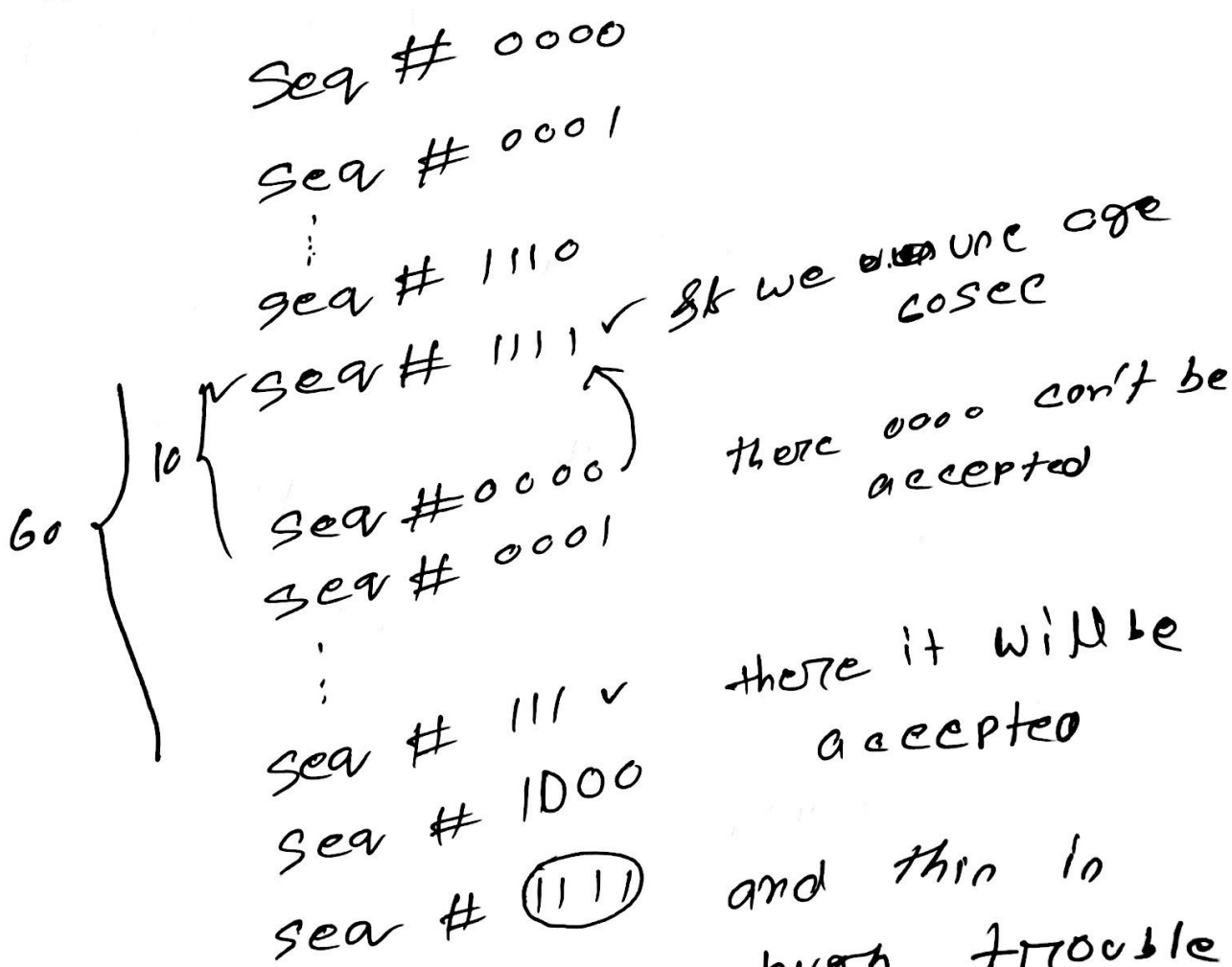
There subbing will last about 500s, this in also a big problem.

That's why age play a vital role at the time of seqvence number error.

8/

So medium number age will better there suffering.

And Also there age can't help to solve the sequence number when Short of length 4 bit in taken



9/

So age can't help here the sequence number wrap up problem.