Vinstonia) Pliadin	Type of Arnville (8)	Total Length 116	48)
	1/2 (16)	OPF Fragment Offset	(13)- 4B
TTL (8)	Protoral (8)	Heady (hecksom (16)	- 4B \ 1201
Dounce IP(32)			-4B
Dratination IP (32)			-4B J
Options (0 to 40 Bytes)			
Data.			

Min. Headen = 20B, Man. Headen = 60B

Headen - Actual Headen Length Length 4

Headen Lingth - (208-608) -> HL Fred - (5B-15B)

If size is 30B (not divisible by 4), so we put padding 2B (in options) to make it multiple of 4.

Diff. the Diff. tha

V5X

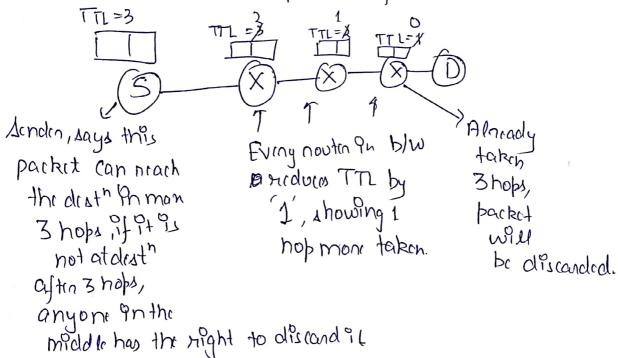
Identificath No. > To number, every datagram out of network layer

DE-> Do not fragment
Entine Datagnam has to be sent, no pieces
MF-> More fragments

Fragment Offset -> No. of data bytes ahead of this particular fragment in this particular datagram.

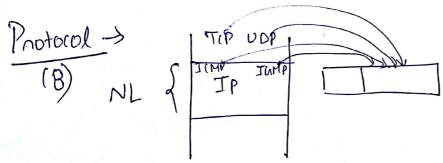
TTL (Time to Live) -> Restall the number of hops.

Done to prevent Papinite looping.



Desth will accept if TTL >O

Any device, having network layer will reduce TTL by 1'.



Photocol will indicate what is the photocol of the datagram, either it is TCP, UDP, I (MP on IGMP.

Every protocol will have a number associated withit.

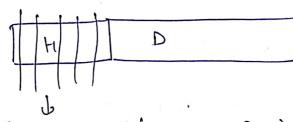
At nouter, If there is congist (say buffer is full), then according to privarily of the parkets In the buffer & the Incoming packet, protocols of the

nouter will decide whether to discand the Incoming packet on to discand the a packet in buffer to make space for Incoming packet.

Pronity )

ILMP & IGMP & UDP & TCP.

Headen (hecksom (16) -> (hecksom only for Headen



Into 16 parts (for rative at Pon)

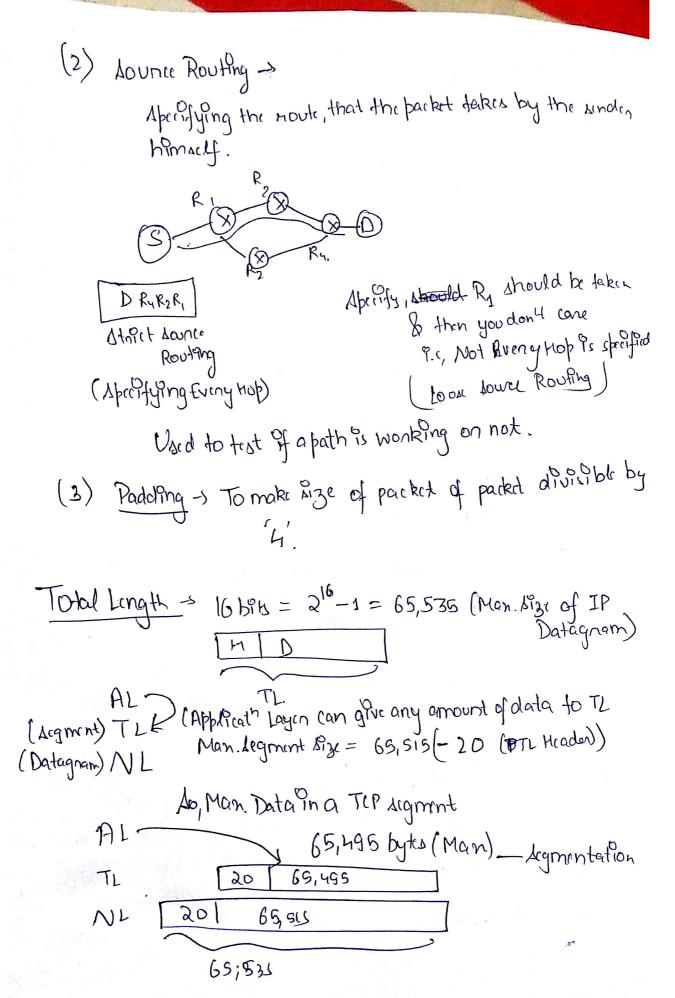
Initially, for chicksom calculate, the field it xx is zero.

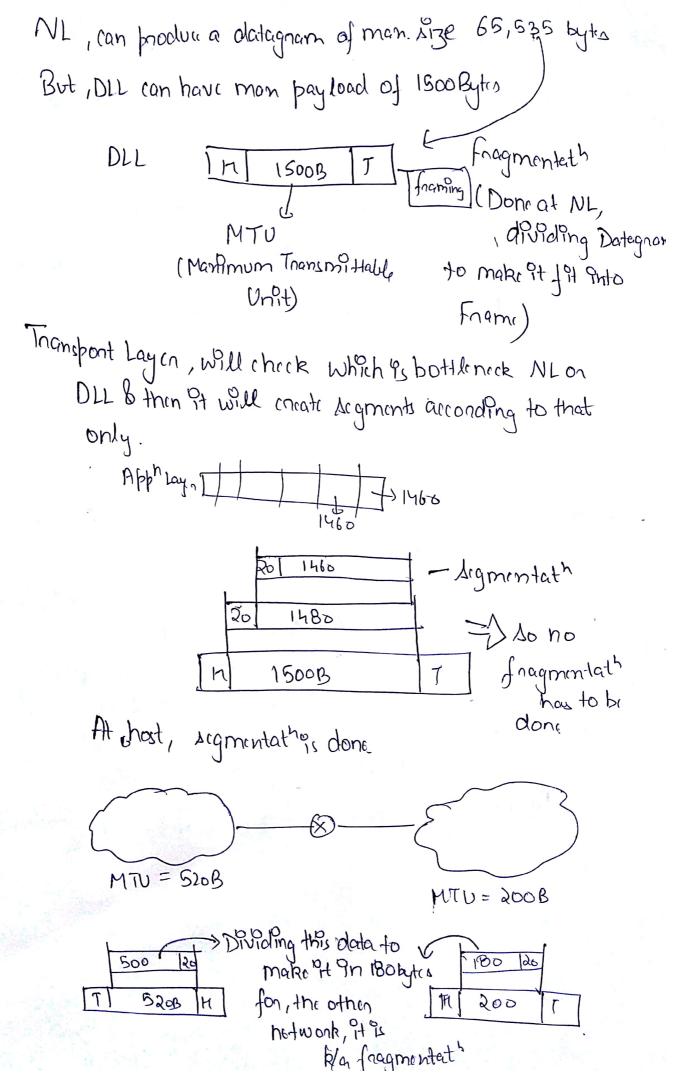
We calculate It only for headen booz, at nouter TTL changes, change thought, TL, Al, So at every mouter Headen checksom is also calculated, so to neduce calculate at nouter we do not include data in It.

Ofthony > 1) Piccond noute > R.BR2 will be written on the Backet, so the necessary Rnows the path, that the packet took,

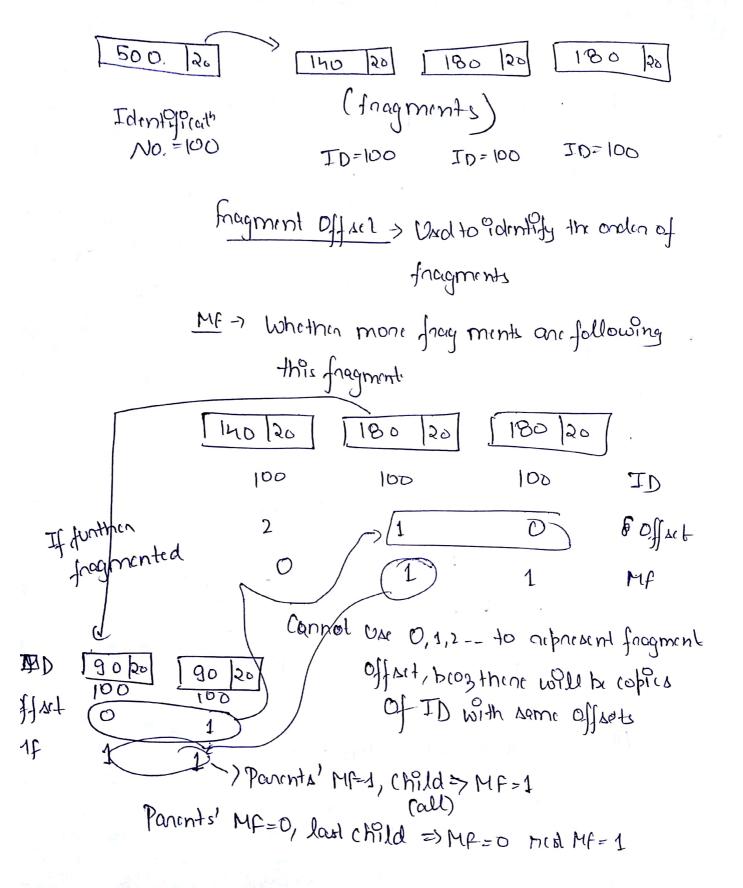
Man. No. of IP add. = 9

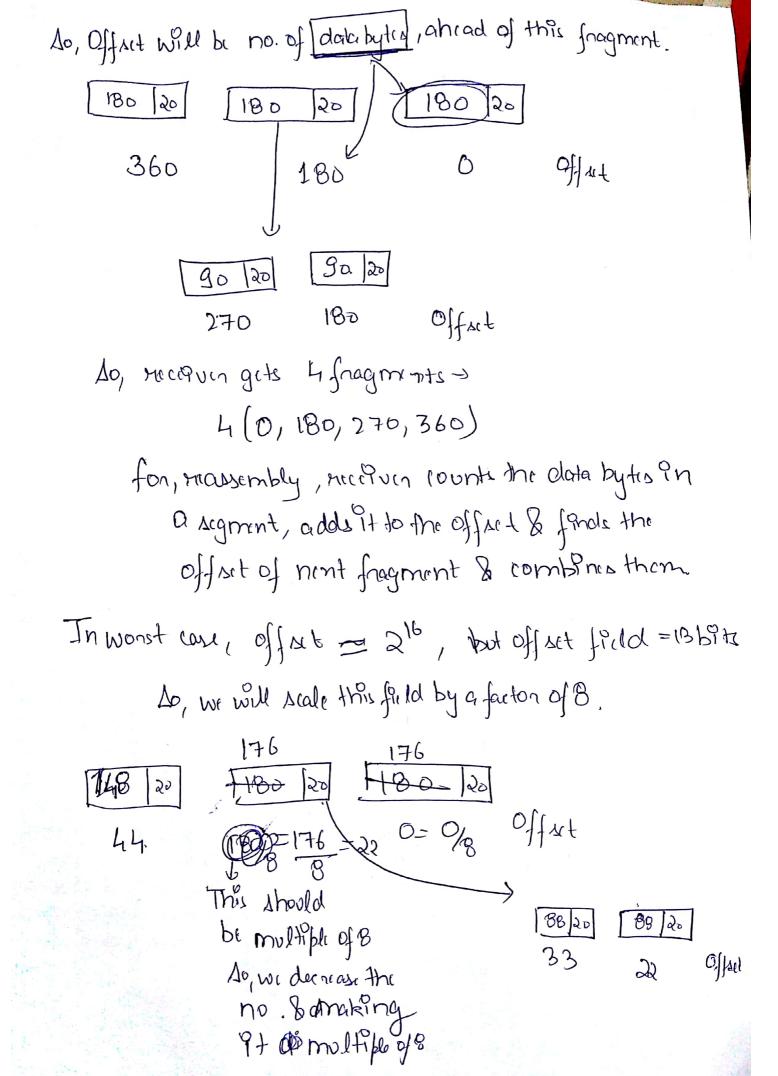
(necorded)





Scanned by CamScanner





$$\frac{7}{7} = \frac{108 - 500}{500 + 400} = \frac{509}{589}$$

i) Applicath needs I neg/1 nep.

BOOTP DHCP

3) NTP

4) NNP

5) quote of day

2) Broadcasting Multicasting

3) Fastness > Reliability ( (onitant Data Rate)

DMultPmedia

>> Online yames.

() DP Headen >

UDI	Souna Pont (1)	Death Pontio
	Length (16)	(HCKbow
T UDP	Meaden+ 1	)ata)

Usen Datagram Protocol.

No Ack In UDP

No flow Control In

VDP

No flags (No Connecth Establishment,

No Connect