64 Hosts TOH Subnet 1 (96 Houts) 1000 0000(N) 7 b96s. 1. 192.168.10.0 192.168.10.0/25 (N) IP for (H2 L3) +0 192.168.10.127/25(H) => 192.168.10.1/25 AP. .10.8/25 . 10.131/25 for Subret 2, (64 HOSTS) .: remaining 7 bits. IP for (H, L3) : IP ranges: -192.168.10.128/25(N) 192.168.10.129/25 let's Assume the IP's of M1 and M2 192.168.10.255/25(H. rue following IPM1: - 192.188.10.131/25 IP M2: - 192.168.10.00/25.

i) let's suppose M1 does not kno routing table is. Subnut Mask Nexthat Interface 10.0 125 .10.129 — 10.128 125 clirect As IP of M2:- 192.168.10.8	SIP:-192.168.10.131/25 DIP:-192.168.10.8/25 * This will remain consistent dum data transfer. Now for ARP request: During broad cast till L3 switch During broad cast till L3 switch (addr1 addr2 addr3) MAC API MAC M1
192.168.10.0 He will match with the subnet 192.168.10.0/25. M1 will try to forward this to 193.168.10.0/25. M1 will try to forward this to 193.168.10.0/25. But it does not have the MAI address of this hop. 80, 14 will address of this hop. 80, 14 will not an ARP request till this in 191 told citle.	MACHI (SMAC DMAC) (SMAC DMAC) (SMAC DMAC) (SMAC FFFF) (SMAC DMAC) (SMAC DMAC) (FFFF) Here L3 Switch will reply Here L3 Switch will reply Here L3 Switch will reply MAC address (wicast) (SMAC DMAC (SMAC MACHIL3 MACMI) V) (SMAC MACHIL3 MACMI) V) (AP1 (From DS=1) (caddr1 caddr2 addr3 (MACM1 MACAP1 MACHIL3)

Now the door Packet will be	
trunsferred to 13 swich.	
vii) M1 — to DS=1 addr3 (addr1 addr2 mALH1L3)	7
(colde) addy2 addy3	>
(MACAPI MACMI MACHILIS)	>
1 27 EMP (MACINE)	
viii) AP1	
PX) L2> L3 J pmA((mAL H1L3)	
ore will be	
Now at 13, the DIP will be	
Routing table of 13 switch.	
Tatoute (0)	
Subret Mark Nextrop 1125	
10 /25 clived 129/25	
1 Mark Nexthop Interface 10 /25 climet .1/25 129/25 129/25	
ILL COL BAY	
IPpert will march be forward. The Packet should be forward.	
The Packet Stortoutals	
in the leaves	
it will run an ARP request	
tirs.	

Broad cast of ARP request: during Now -> L2) SMA(:- (MAX H2L3) -> APZ) DMA(:-(FFFF) x9) La addy 3 addre MACAPZ MACHILLS Now M2 will send a unicast reply to 13 switch: 40 DS=1 Xiii) macm2 MALAP2 L2) SMAL :- MAL M2 XIV) APZ--> L3 DMAL' - MACH213 Now cy 13 switch knows mac address of M2, Pt will forward -> APZ JOMAC:-MACM2 desta packet to M2. XV1) L3 XVII) from DS = 1 adduz adduz MAGAPZ MAGHZ L3