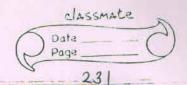
0-127- Class A 128-191- Class B 192-223-Class C



· Same bit 0 Host fant min, Hefensent network Id and Same bit one host fant min referent direct broadcast address.

Jab hamne Network ko further divide nahi Kiya tha tab hamare fass 254 hosts fossible har.

But Jab do farts muin divide Kija loh fahale Subnet muin = 128-2= 126 host Second Subnet muin = 128-2= 126 host

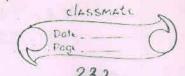
Total = 252 hosts

Now consider this Ecenario again -

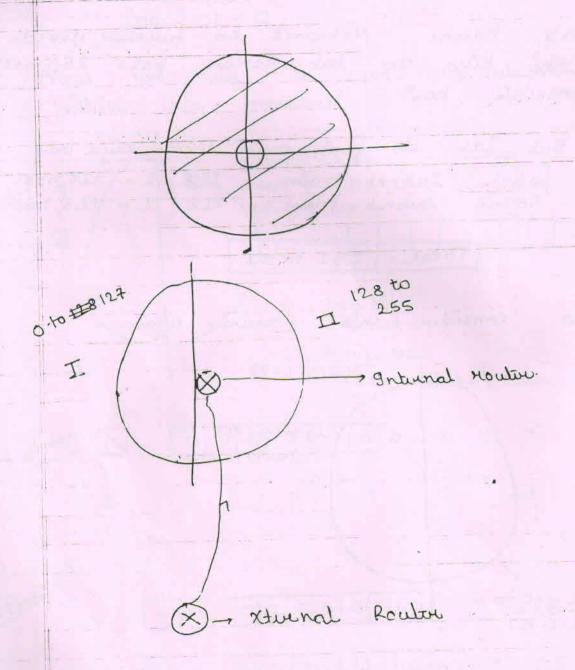
200.1.1.02 200.1.1.128 to 200.1.1.255.

200-1 1-0 to

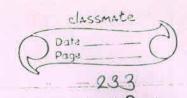
Yaha Kuch froblem dik Hahai hai, ki foure network Ka ID aux fahale Subnek Ka ID Same hai aux foure network Ka broadcast if aux II Subnet ka broadcast ed Same hai. Yaha confusion hoga.



Now is confusion to Kaise an handle Kinga jaye.



Agar bahar & bro yet address acta hat '200.1.1.255 top internal router form volvinga.



Because bahare wate ko yet nahi fata hai ki given network aur bli networks min divide hai.

Aut agart I defantment yon address generate Karda hai 200. I. I. 255 toh woh II defantment min broadcast Kanga ha ki fune network min.

H Now consider following Ecenario.

200.1.2.63 200.1.2.63 200.1.2.128 200.1.2.64 ·

200.1.2.127

200.1.2.192 to

10

200.1.2.255.

200.1.2-191

to

H

exturnal Pouter: -

Subnet mask: -

subjut + net- id all L's

Host-id all o's.

Example: 255-255. 255. 0 > Class C Subrut mask.

Hure Subruk mask is 255. 255. 110000000 255. 255. 255. 192

With	the	help of	sub	red mas	sk u	x cano
find	out	help of	id	from	the	given
IP	addru	bs			V-in	,

Example: -

0.0.0.0

Ours: - biven if address 200.1.2.129 and Subnet mask id 200.1.2.132 then find network id 22 255.255.255.192

Simply as furform bituier anding we got

200. 1. 2. 129 (8) Anding 255. 255.255.192 200. L. 2. .128

(net id) - Neiwork id.

H Rowling Table of previous scenario

NID Subrut mask Interface

200.1.2.0. 255.255.255.192 a

200.1.2.128 255.255.255.192 c

200.1.2.128 255.255.255.192 c

0.0.0.0

Agan Kohi addruss aata hai toh woh.

Sabsi fahale Houlin table si concern

Kariga usme Subnit mask se Subnit mask

aun given if addruss ki anding kariga

thin nut id match hoga toh us

interfere for forward kariga, aun

agan kisi se bhi hahi hua toh 0.0.0.0

se ho hi jayega toh us fackit ko

Woh waha forward karega

In case agan hærmane hamne bahale wale Subnit mask se endeng kanwaye hamane ilp address aun nit-id match hogaye now swond subnit mask bige own given ilp-address aun usse bhe het—i'd match hogaya toh konse interfau for forward kanega.

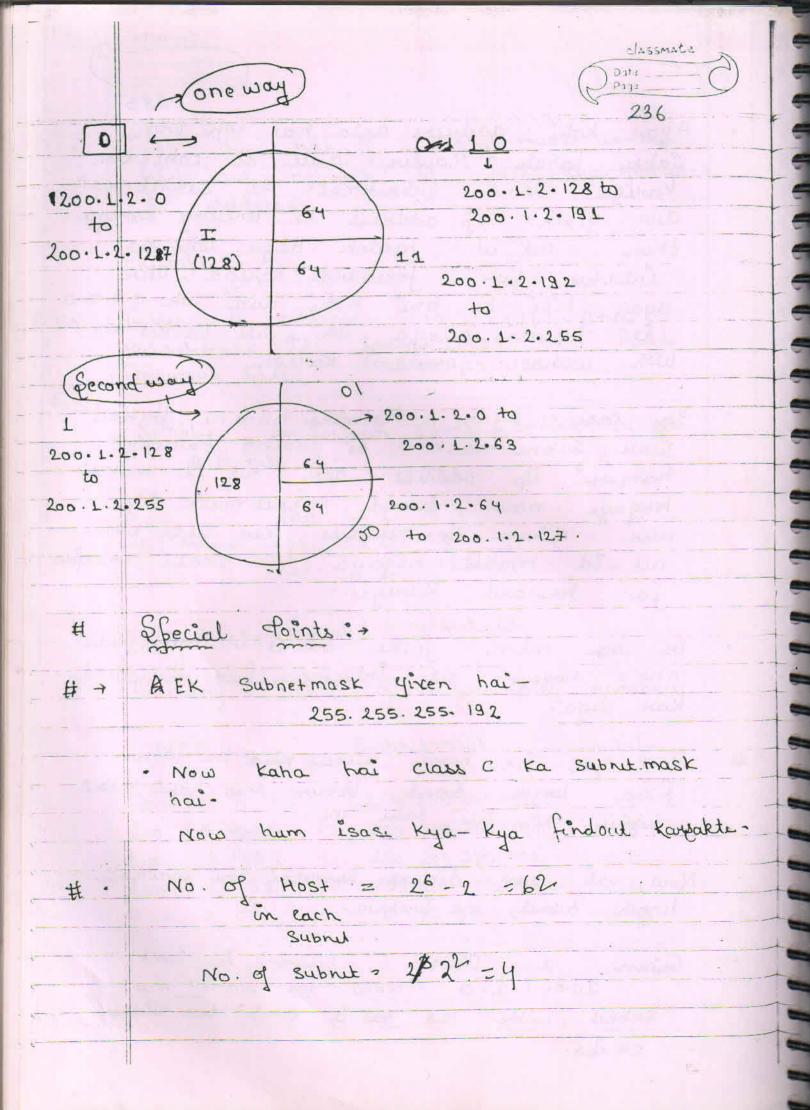
Us case min jiske subrut id min jada one's hogy us interfere far forward kar dega.

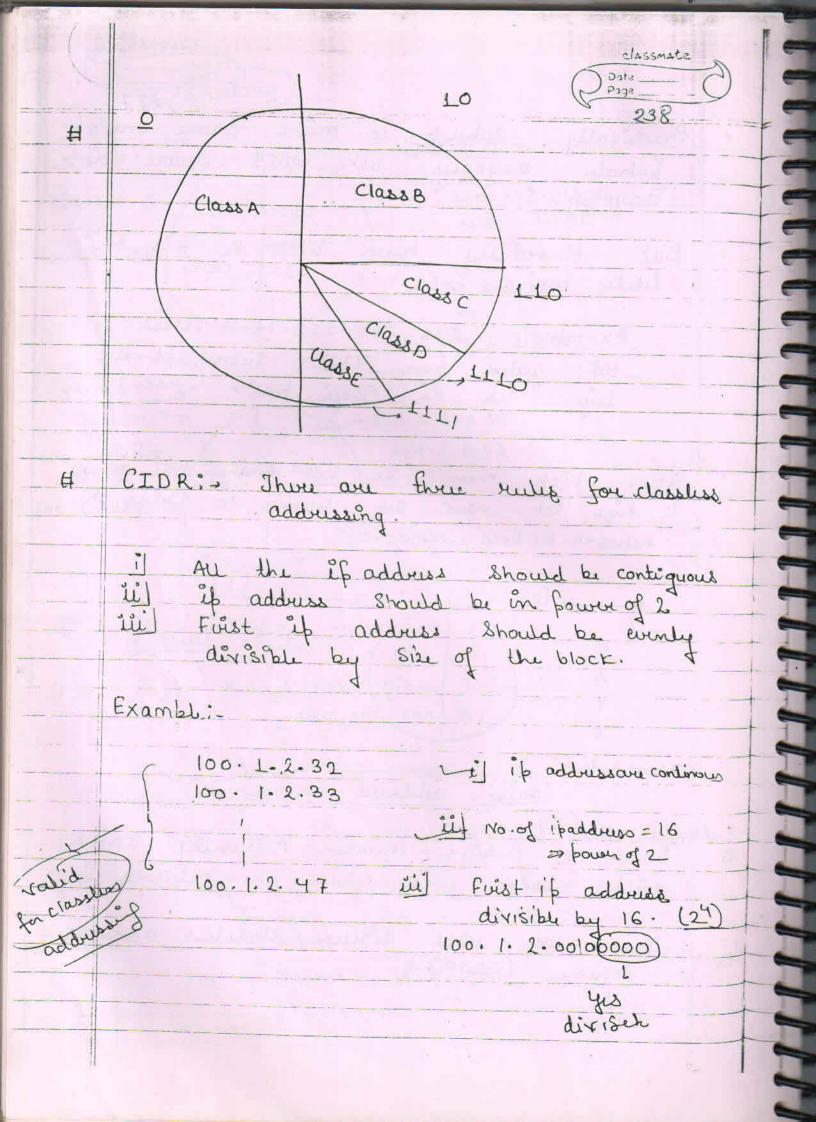
Now yen joh hamne discuss kiya tha woh fixed lingth Subnet froblem the, your sabhi Subnet Ki Size same the.

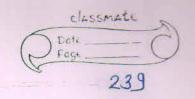
Now aab hum discuss Karvahai hai variable length subnet one problem.

buin a class C relivour led 200 1 200 · 1 · 2 · 0 · Now we want one Subnet with 128 set if and two with 64 ibs.

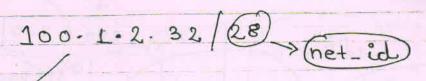
1.1







Representation: >



Block size = No. of if address = 2 = 24 fossible

a.b.c.d) (m) = nuk-id

Yoha fare konsa bhe address lipakte ho joh us set mien bilong karta har jaruri nahi Ki

Subnetting im CIDR:

-> truen following network id , 200.1.2.3 254 now we want to create four subject of Equal Size.

Hure net id Kitani bit Ki hai 25 bits. and host id= 32-25= 7 bite.

aux hamne Kêtane Subnet banane hai four los host min se sixueting Kê two bits

Subniting K hije Chate Chali gayi.

200.1.2. 84 267 1200.1.2.0 /25 200.1.2. 127 26 200.1.2.63 267 A B

192. D 200.1.2.01 26 200.1.2.255 26

200. L. 2-181 2# 7

