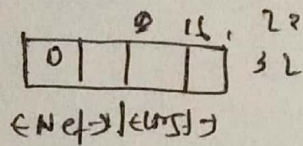


Mredul Chakraborty

2017-2-60-069

Ans to tw Q-01

Class A : N.H.H.H.

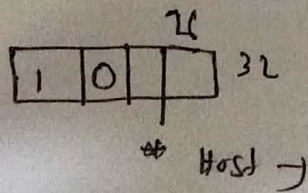


(0.0.0.0 - 127.255.255.255)

Network IP =  $2^8 - 2 = 126$

Host IP =  $2^{24} - 2 = 16777214$

Class B : N.H.H.H.

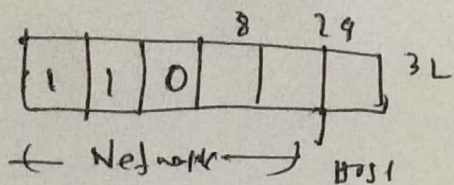


(128.0.0.0 - 191.255.255.255)

Network IP =  $2^{16} - 2 = 65534$

Host IP =  $2^{16} - 2 = 65534$

class C : N.N.N.W



(192.0.0.0 - 223.255.255.255)

Network IP:  $2^{21} = 2097152$

Host IP:  $2^9 - 2 = 254$

Ans to the Q-02

IP Address = 121.555.180.40/9 → class A

Network IP: 121.0.0.0

121	0000	0000	00000000	00000000
← Net →		← Host →		
1st subnet	0001	0000	00000000	00000000
4th subnet	0100	0000	00000000	00000000
1st host	0100	0000	00000000	00000000
Broadcast	0100	1111	11111111	11111111
last host	0100	1111	11111111	11111110
last subnet	1110	0000	00000000	00000000



9th subnet : 121.69.0.0

1st subnet : 121.224.0.0

Ans to the Q-03

		subnet		Host
<u>156</u>	<u>150</u>	<u>000000</u>	00	00000000
← Net →		<u>111111</u>	00	00000000 → subnet mask IP
<u>156</u>	<u>150</u>	<u>000011</u>	00	00000000 → 3rd subnet.
<u>156</u>	<u>150</u>	<u>000011</u>	11	11111110 → last host of 3rd subnet.

subnet mask IP: 255.255.63.0 (decimal notation)

last host of 3rd subnet: 156.150.15.254.