Name: Md. Faisal Ahmed Ridoy   ID: 2019-1-60-109

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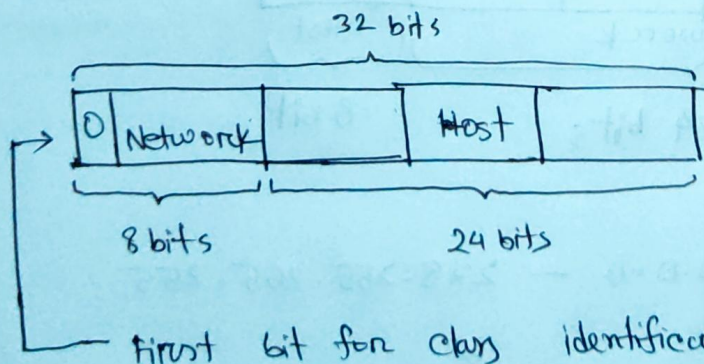
Course code & tittle: CSE405, Computer Network sec: 01

Instructors: Dr. Anisur Rahman

Answering to the question no →01

Structure of class A, B and C type of IP address and number of host for each network:
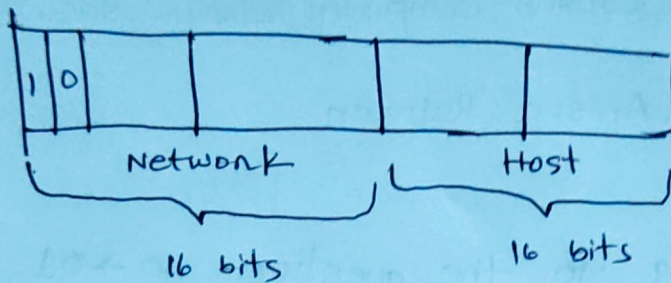
class A

32 bits

| 0 | Network | | Host | |

8 bits   24 bits

— first bit for class identification

Range: 0(fixed) 000 0000 (0) ··· 0 1111111 (127)
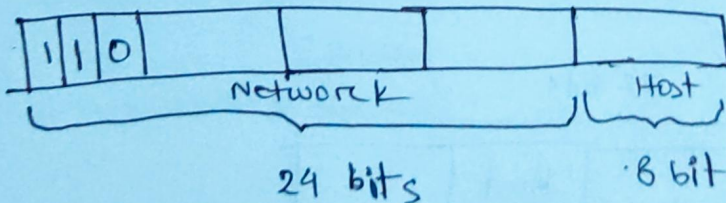
0.0.0.0 — 127.255.255.255

Number of host for each network = 2^{24}

class B

Range :   128.0.0.0 — 191.255.255.255

Host for each network : 2^{16}

Class C

Range : 192.0.0.0 — 223.255.255.255

Host per network : 2^8

We know, to 2 IP address of Network

and Broadcast are fixed for each network.

Considering for class A (127.230.240.70)

127.0.0.0 for Network and

127.255.255.255 for Broadcas IP are fixed,

Host IP are less than theoretical value

which is $2^{24} - 2$.

Answering to the question no +02

Given,

112.155.180.46/13

Network IP: 112.0.0.0

112	Subnet		
	00000	000	00000000	00000000
Network			

First IP of 5th subnet 00101|000 00000000 0000000 1

last IP of 5th subnet 00101|111 1111 1 1111 1111 1110

First IP of 5th subnet: 112.40.0.1

Last IP of 5th " : 112.47.255.254

Answering to the question no → 03

Given ,

$$145.135.0.0 \qquad → Class \quad B$$

Subnet

$$145 . 135 . \overset{\frown}{000000}|00 . 00000 \ 000$$

Subnet IP   11111111. 1111111. 111111ϕ|00 . 00000000

Broadcast IP (3rd Subnet)   000011|$\phi\phi$. 11111111

Subnet IP $\left(decimal\right)$:   255.255.252.0

Broadcast IP (decimal) :   145.135.15.255

(3rd Subnet)