Assignment-3A IP Address

- Q1. Class B network having IP Address 128.12.0.0 is divided into 8 subnets, Answer the followings
 - (a) Find the Subnet mask of Network after subnetting.
 - (b) How many maximum number of of hosts are possible in a subnet
 - (c) Find the Network ID and Broadcast address of third, Fourth , Seventh Subnetwork .
 - (d) Find the First IP Address of third Subnetwork.
 - (e) Find the 350^{th} , Last and First IP Address of sixth Subnetwork
 - (f) Find the 760th, Last and First IP Address of fifth Subnetwork
 - (g) A subnetwork have IP address 128.12.85.89, Find the First and last IP address of this Subnetwork
 - (h) A subnetwork have IP address 128.12.85.89, Find the First and last IP address of this Subnetwork
- Q2. Class B network having IP Address 173.20.0.0 is divided into 18 subnets, Answer the followings
 - (a) Find the Subnet mask of Network after subnetting.
 - (b) How many maximum number of of hosts are possible in a subnet
 - (c) Find the Network ID and Broadcast address of third, Fourth , Seventh Subnetwork .
 - (d) Find the First IP Address of third Subnetwork
 - (e) Find the 350^{th} , Last and First IP Address of tenth Subnetwork
 - (f) Find the 760th, Last and First IP Address of ninth Subnetwork
 - (g) A subnetwork have IP address 173.20.185.189, Find the First and last IP address of this network
 - (h) A subnetwork have IP address 173.20.75.23, Find the First and last IP address of this network
- Q3. Subnet ID of last subnet of a class B network is 190.13.224.0, Answer the followings
 - (a) Find the Subnet mask of Network after subnetting.
 - (b) How many maximum number of of hosts are possible in this subnet
 - (c) Find the Network ID and Broadcast address of third, Fourth , Seventh network
 - (d) Find the First IP Address of third Subnetwork
 - (e) Find the 412^{th} , Last and First IP Address of sixth Subnetwork
 - (f) Find the 345th, Last and First IP Address of fifth Subnetwork
 - (g) A subnetwork have IP address 190.13.220.45, Find the First and last IP address of this Subnetwork

- (h) A subnetwork have IP address 190.13.175.123, Find the First and last IP address of this Subnetwork
- Q4. Subnet ID of last subnet of a class C network is 192.13.224.192, Answer the followings
 - (a) Find the Subnet mask of Network after subnetting .
 - (b) How many maximum number of of hosts are possible in this subnet
 - (c) Find the Network ID and Broadcast address of first, second , third Subnetwork
 - (d) Find the First IP Address of third Subnetwork
 - (e) Find the 12th, Last and First IP Address of second Subnetwork
 - (f) Find the 45th, Last and First IP Address of third Subnetwork
 - (g) A subnetwork have IP address 192.13.224.75, Find the First and last IP address of this Subnetwork.
 - (h) A subnetwork have IP address 192.13.224.198, Find the First and last IP address of this Subnetwork
- Q5. Find the possible Subnet mask (at least 3) of subnets which have following pairs of IP address. Every Pair belongs to same network
 - (a) 170.12.98.245 & 170.12.116.232
 - (b) 178.156.49.234 & 178.156.56.123
 - (c) 189.13.40.123 & 189.13.50.245
 - (d) 120.15.234.234 & 120.145.123.234
- Q6. Find the possible Subnet mask (at least 3) of subnets which have following pairs of IP address. Every Pair belongs to same network
 - (a) 175.120.95.245 & 175.120.112.232
 - (b) 177.156.125.234 & 177.156.56.123
 - (c) 198.13.40.123 & 189.13.50.110
 - (d) 900.15.156.234 & 90.15.129.234
- Q7. The routing table of a router is shown below

Destination	Subnet Mask	Interface
128.75.96.0	255.255.255.0	Eth0
128.75.96.0	255.255.224.0	Eth1
128.75.160.0	255.255.240.0	Eth5
192.12.17.128	255.255.255.192	Eth3
192.12.17.128	255.255.255.240	Eth4
Default	-	Eth2

Suppose router receive 10 packet with destination IP address as given below , find the destination Interface for each data packet .

- (a) 128.75.112.126
- (b) 128.75.125.234
- (c) 128.75.190.24
- (d) 128.75.178.173
- (e) 128.75.241.153
- (f) 128.75.135.124
- (g) 128.75.169.217
- (h) 192.12.17.231
- (i) 192.12.17.43
- (j) 192.12.17.142
- (k) 192.12.17.68
- Q8. An IP router implementing Classless Inter-domain Routing (CIDR) . The routers routing table has the following entries:

Prefix	Output Interface Identifier
129.16.64.0/14	3
129.28.14.0/ 13	5
129.19.13.0/ 17	2
129.22.45.0/ 18	1
default	4

Suppose router receive 10 packet with destination IP address as given below , find the destination Interface for each data packet .

- (a) 129.53.112.126
- (b) 129.175.125.234
- (c) 129.125.190.24
- (d) 129.245.178.173
- (e) 129.85.241.153
- (f) 129.35.135.124
- (g) 129.195.169.217
- (h) 129.215.190.24
- (i) 129.45.178.173
- (j) 129.23.241.153
- (k) 129.135.135.124

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 Deadline of SUBMISSION : 25^{th} Nov.2016