//PC1 commands

C:\>ping 172.31.0.254

C:\>ping 172.31.1.190

C:\>ping 172.31.0.254

C:\>ping 172.31.1.190

//PC2 commands

C:\>ping 172.31.1.126

C:\>ping 172.31.1.190

//PC3 commands

C:\>ping 172.31.1.126

C:\>ping 172.31.0.254

//R1 commands

R1>enable

R1#configure terminal

R1(config)#ip route 172.31.0.0 255.255.255.0 172.31.1.193

R1(config)#ip route 172.31.1.196 255.255.255.252 172.31.1.193

R1(config)#ip route 172.31.1.128 255.255.255.192 172.31.1.193

//R2 commands

R2>enable

R2#configure terminal

R2(config)#ip route 172.31.1.0 255.255.255.128 Se0/0/0

R2(config)#ip route 172.31.1.128 255.255.255.192 Se0/0/1

R2(config)#exit

R2#show ip route connected

R2#show ip route static

R2#show ip route

//R3 commands

R3>enable

R3#configure terminal

R3(config)#ip route 0.0.0.0 0.0.0.0 Se0/0/1

R3(config)#exit

R3#show ip route