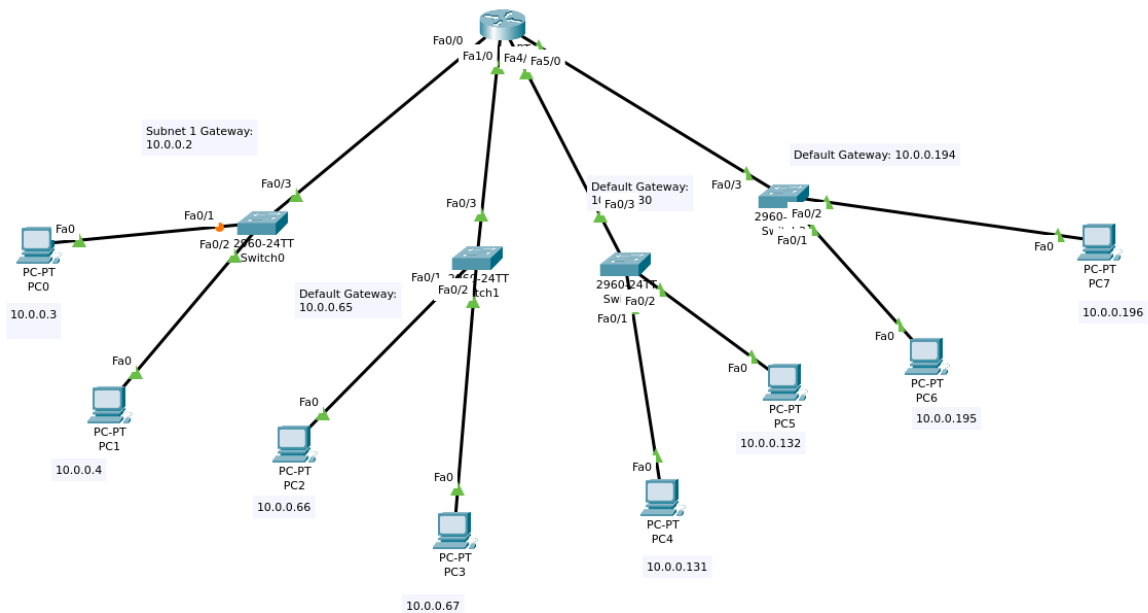


Q3)

SUBNET MASK = 255.255.255.192

Network Topology:



SUBNET 1:

Default Gateway: 10.0.0.2

PC0: 10.0.0.3

PC1: 10.0.0.4

SUBNET 2:

Default Gateway: 10.0.0.65

PC2: 10.0.0.66

PC3: 10.0.0.67

SUBNET 3:

Default Gateway: 10.0.0.130

PC4: 10.0.0.131

PC5: 10.0.0.132

SUBNET 4:

Default Gateway: 10.0.0.194

PC6: 10.0.0.195

PC7: 10.0.0.196

PING:

i) Pinging from PC0 to PC1 (SUBNET 1 to SUBNET 1)

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 10.0.0.4

Pinging 10.0.0.4 with 32 bytes of data:

Reply from 10.0.0.4: bytes=32 time=12ms TTL=128
Reply from 10.0.0.4: bytes=32 time<1ms TTL=128
Reply from 10.0.0.4: bytes=32 time<1ms TTL=128
Reply from 10.0.0.4: bytes=32 time<1ms TTL=128

Ping statistics for 10.0.0.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 12ms, Average = 3ms

C:\>
```

ii) PC0 to PC2 (SUBNET 1 to SUBNET 2):

```
Pinging 10.0.0.66 with 32 bytes of data:

Reply from 10.0.0.66: bytes=32 time<1ms TTL=127
Reply from 10.0.0.66: bytes=32 time=11ms TTL=127
Reply from 10.0.0.66: bytes=32 time=1ms TTL=127
Reply from 10.0.0.66: bytes=32 time<1ms TTL=127

Ping statistics for 10.0.0.66:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 11ms, Average = 3ms

C:\>
```

iii) PC0 to PC4 (SUBNET 1 to SUBNET 3):

```
C:\>ping 10.0.0.131

Pinging 10.0.0.131 with 32 bytes of data:

Request timed out.
Reply from 10.0.0.131: bytes=32 time<1ms TTL=127
Reply from 10.0.0.131: bytes=32 time<1ms TTL=127
Reply from 10.0.0.131: bytes=32 time<1ms TTL=127

Ping statistics for 10.0.0.131:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

iv) PC0 to PC6

```
C:\>
C:\>ping 10.0.0.195

Pinging 10.0.0.195 with 32 bytes of data:

Reply from 10.0.0.195: bytes=32 time<1ms TTL=127
Reply from 10.0.0.195: bytes=32 time<1ms TTL=127
Reply from 10.0.0.195: bytes=32 time<1ms TTL=127
Reply from 10.0.0.195: bytes=32 time<1ms TTL=127

Ping statistics for 10.0.0.195:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```