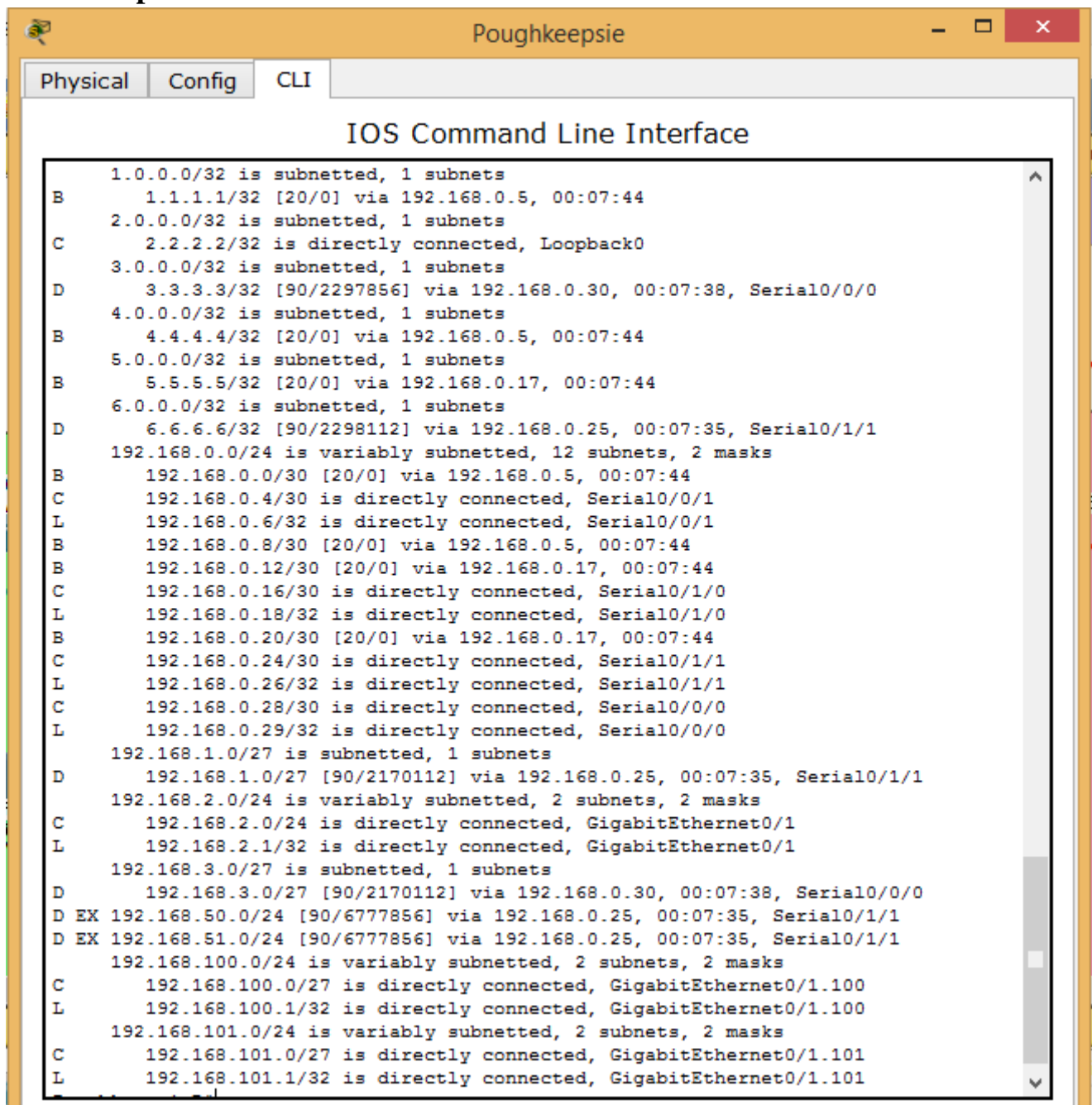


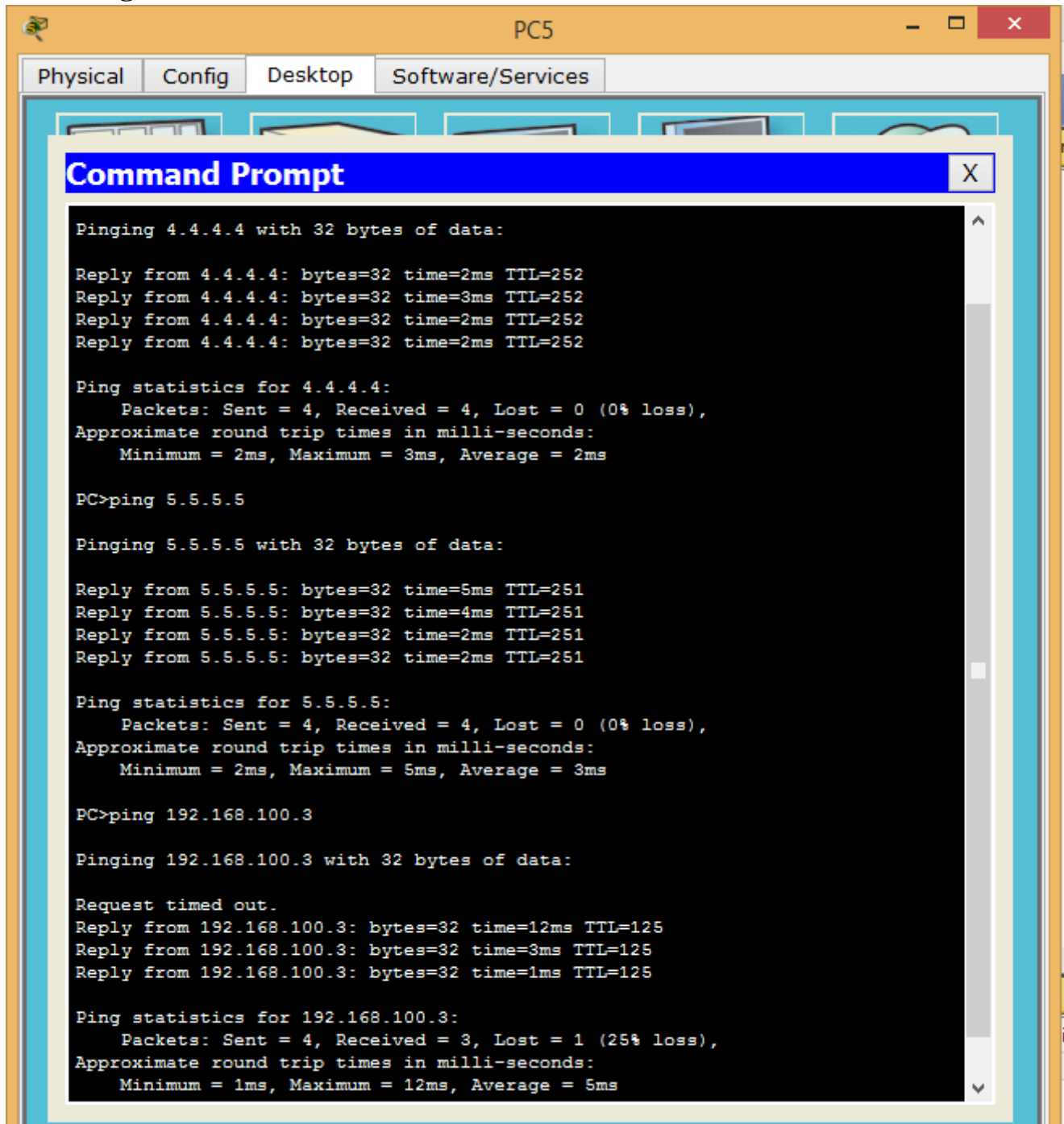
Poukhkeepsie Router :



The screenshot shows the Poughkeepsie router's CLI interface. The window title is "Poughkeepsie". The tabs are "Physical", "Config", and "CLI". The main content area is titled "IOS Command Line Interface". It displays a list of IP addresses and their connections, organized by interface type (B, C, D, L, EX).

```
1.0.0.0/32 is subnetted, 1 subnets
B    1.1.1.1/32 [20/0] via 192.168.0.5, 00:07:44
2.0.0.0/32 is subnetted, 1 subnets
C    2.2.2.2/32 is directly connected, Loopback0
3.0.0.0/32 is subnetted, 1 subnets
D    3.3.3.3/32 [90/2297856] via 192.168.0.30, 00:07:38, Serial0/0/0
4.0.0.0/32 is subnetted, 1 subnets
B    4.4.4.4/32 [20/0] via 192.168.0.5, 00:07:44
5.0.0.0/32 is subnetted, 1 subnets
B    5.5.5.5/32 [20/0] via 192.168.0.17, 00:07:44
6.0.0.0/32 is subnetted, 1 subnets
D    6.6.6.6/32 [90/2298112] via 192.168.0.25, 00:07:35, Serial0/1/1
192.168.0.0/24 is variably subnetted, 12 subnets, 2 masks
B    192.168.0.0/30 [20/0] via 192.168.0.5, 00:07:44
C    192.168.0.4/30 is directly connected, Serial0/0/1
L    192.168.0.6/32 is directly connected, Serial0/0/1
B    192.168.0.8/30 [20/0] via 192.168.0.5, 00:07:44
B    192.168.0.12/30 [20/0] via 192.168.0.17, 00:07:44
C    192.168.0.16/30 is directly connected, Serial0/1/0
L    192.168.0.18/32 is directly connected, Serial0/1/0
B    192.168.0.20/30 [20/0] via 192.168.0.17, 00:07:44
C    192.168.0.24/30 is directly connected, Serial0/1/1
L    192.168.0.26/32 is directly connected, Serial0/1/1
C    192.168.0.28/30 is directly connected, Serial0/0/0
L    192.168.0.29/32 is directly connected, Serial0/0/0
192.168.1.0/27 is subnetted, 1 subnets
D    192.168.1.0/27 [90/2170112] via 192.168.0.25, 00:07:35, Serial0/1/1
192.168.2.0/24 is variably subnetted, 2 subnets, 2 masks
C    192.168.2.0/24 is directly connected, GigabitEthernet0/1
L    192.168.2.1/32 is directly connected, GigabitEthernet0/1
192.168.3.0/27 is subnetted, 1 subnets
D    192.168.3.0/27 [90/2170112] via 192.168.0.30, 00:07:38, Serial0/0/0
D EX 192.168.50.0/24 [90/6777856] via 192.168.0.25, 00:07:35, Serial0/1/1
D EX 192.168.51.0/24 [90/6777856] via 192.168.0.25, 00:07:35, Serial0/1/1
192.168.100.0/24 is variably subnetted, 2 subnets, 2 masks
C    192.168.100.0/27 is directly connected, GigabitEthernet0/1.100
L    192.168.100.1/32 is directly connected, GigabitEthernet0/1.100
192.168.101.0/24 is variably subnetted, 2 subnets, 2 masks
C    192.168.101.0/27 is directly connected, GigabitEthernet0/1.101
L    192.168.101.1/32 is directly connected, GigabitEthernet0/1.101
```

PC 5 Ping results :



The screenshot shows a PC window titled 'PC5' with tabs for 'Physical', 'Config', 'Desktop', and 'Software/Services'. The 'Desktop' tab is active, displaying a 'Command Prompt' window. The Command Prompt shows the results of three ping commands: ping 4.4.4.4, ping 5.5.5.5, and ping 192.168.100.3. The first two pings are successful with 0% loss, while the third ping to 192.168.100.3 shows a 25% loss (1 packet lost).

```
PC5
Physical Config Desktop Software/Services

Command Prompt

Pinging 4.4.4.4 with 32 bytes of data:

Reply from 4.4.4.4: bytes=32 time=2ms TTL=252
Reply from 4.4.4.4: bytes=32 time=3ms TTL=252
Reply from 4.4.4.4: bytes=32 time=2ms TTL=252
Reply from 4.4.4.4: bytes=32 time=2ms TTL=252

Ping statistics for 4.4.4.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 3ms, Average = 2ms

PC>ping 5.5.5.5

Pinging 5.5.5.5 with 32 bytes of data:

Reply from 5.5.5.5: bytes=32 time=5ms TTL=251
Reply from 5.5.5.5: bytes=32 time=4ms TTL=251
Reply from 5.5.5.5: bytes=32 time=2ms TTL=251
Reply from 5.5.5.5: bytes=32 time=2ms TTL=251

Ping statistics for 5.5.5.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 5ms, Average = 3ms

PC>ping 192.168.100.3

Pinging 192.168.100.3 with 32 bytes of data:

Request timed out.
Reply from 192.168.100.3: bytes=32 time=12ms TTL=125
Reply from 192.168.100.3: bytes=32 time=3ms TTL=125
Reply from 192.168.100.3: bytes=32 time=1ms TTL=125

Ping statistics for 192.168.100.3:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 12ms, Average = 5ms
```

ISP B Router :

ISP B

Physical Config CLI

IOS Command Line Interface

i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route

Gateway of last resort is not set

1.0.0.0/32 is subnetted, 1 subnets
B 1.1.1.1/32 [20/0] via 192.168.0.14, 00:05:46

2.0.0.0/32 is subnetted, 1 subnets
B 2.2.2.2/32 [20/2169856] via 192.168.0.18, 00:05:46

3.0.0.0/32 is subnetted, 1 subnets
B 3.3.3.3/32 [20/128256] via 192.168.0.22, 00:05:46

4.0.0.0/32 is subnetted, 1 subnets
B 4.4.4.4/32 [20/0] via 192.168.0.22, 00:05:46

5.0.0.0/32 is subnetted, 1 subnets
C 5.5.5.5/32 is directly connected, Loopback0

6.0.0.0/32 is subnetted, 1 subnets
B 6.6.6.6/32 [20/7289856] via 192.168.0.22, 00:05:46

192.168.0.0/24 is variably subnetted, 11 subnets, 2 masks
B 192.168.0.0/30 [20/0] via 192.168.0.22, 00:05:46
B 192.168.0.4/30 [20/0] via 192.168.0.22, 00:05:46
B 192.168.0.8/30 [20/0] via 192.168.0.18, 00:05:46
C 192.168.0.12/30 is directly connected, Serial0/0/1
L 192.168.0.13/32 is directly connected, Serial0/0/1
C 192.168.0.16/30 is directly connected, Serial0/1/0
L 192.168.0.17/32 is directly connected, Serial0/1/0
C 192.168.0.20/30 is directly connected, Serial0/1/1
L 192.168.0.21/32 is directly connected, Serial0/1/1
B 192.168.0.24/30 [20/7289856] via 192.168.0.22, 00:05:46
B 192.168.0.28/30 [20/2169856] via 192.168.0.22, 00:05:46

192.168.1.0/27 is subnetted, 1 subnets
B 192.168.1.0/27 [20/2816] via 192.168.0.14, 00:05:46

192.168.2.0/24 [20/7289856] via 192.168.0.22, 00:05:46

192.168.3.0/27 is subnetted, 1 subnets
B 192.168.3.0/27 [20/2816] via 192.168.0.22, 00:05:46

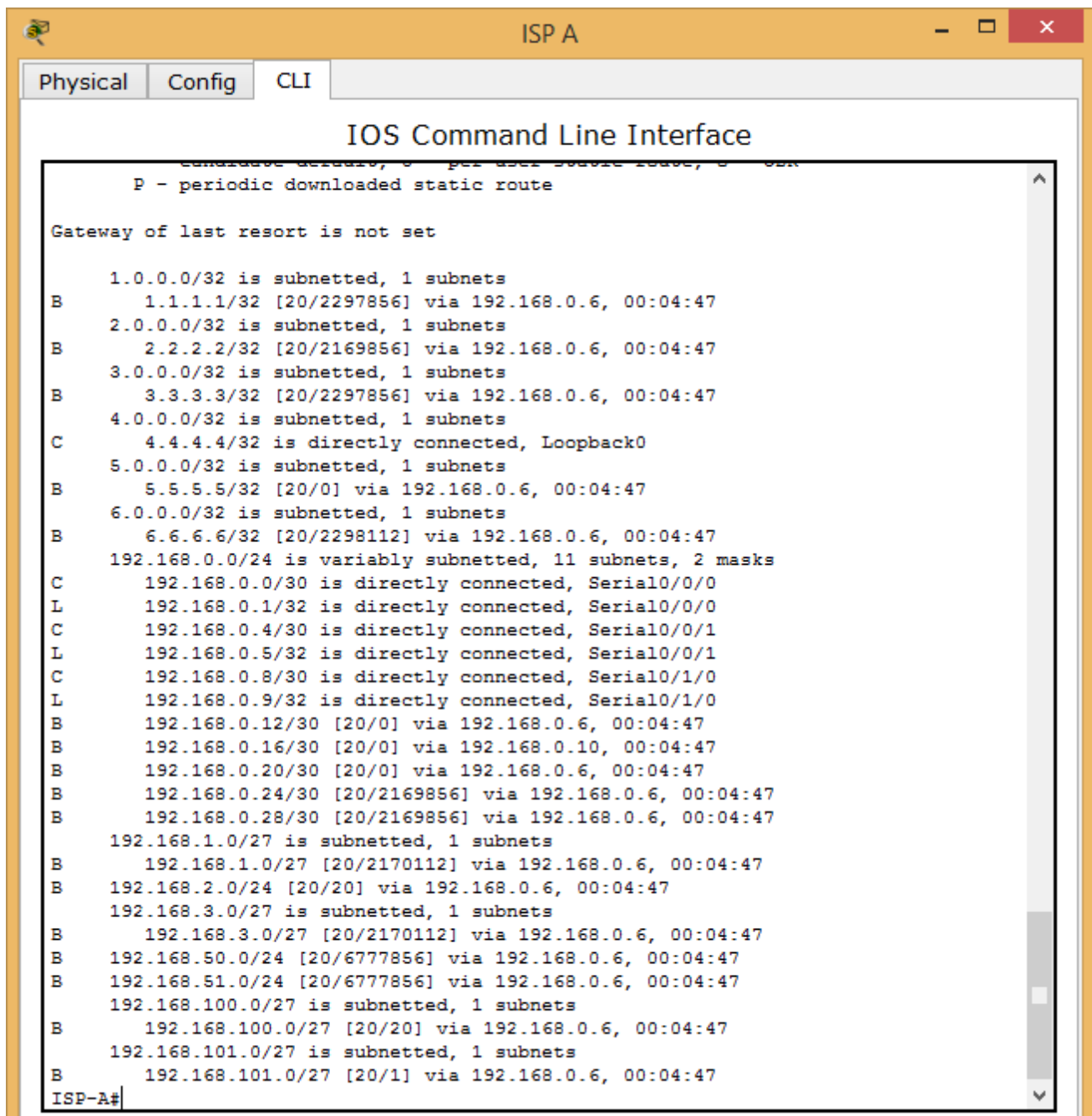
192.168.50.0/24 [20/7289856] via 192.168.0.22, 00:05:46

192.168.51.0/24 [20/7289856] via 192.168.0.22, 00:05:46

192.168.100.0/27 is subnetted, 1 subnets
B 192.168.100.0/27 [20/7289856] via 192.168.0.22, 00:05:46

192.168.101.0/27 is subnetted, 1 subnets

ISP A router:



The screenshot shows the IOS Command Line Interface for a router named 'ISP A'. The interface has three tabs: 'Physical', 'Config', and 'CLI'. The 'CLI' tab is active, displaying the following text:

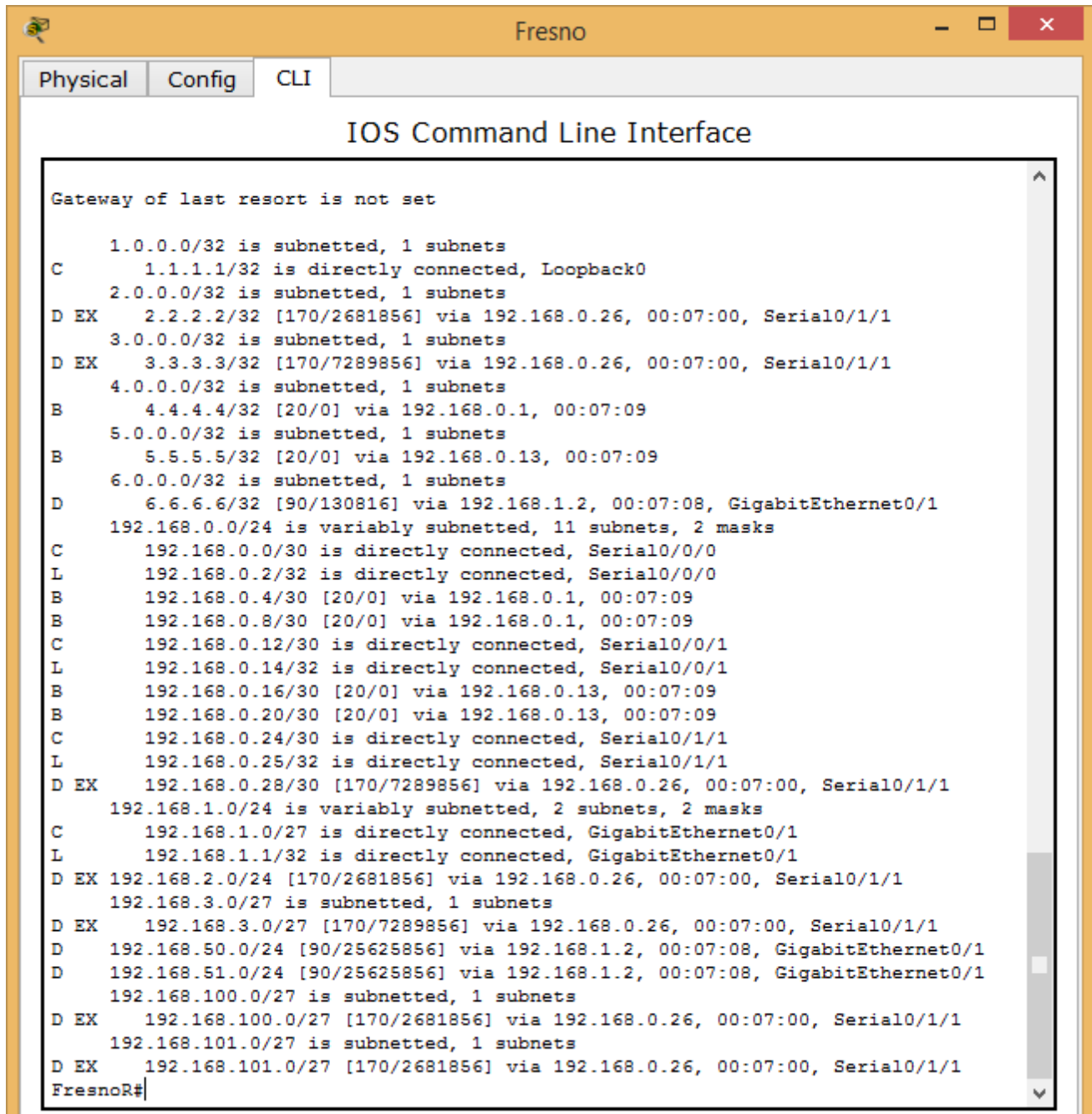
```
IOS Command Line Interface

P - periodic downloaded static route

Gateway of last resort is not set

  1.0.0.0/32 is subnetted, 1 subnets
B    1.1.1.1/32 [20/2297856] via 192.168.0.6, 00:04:47
  2.0.0.0/32 is subnetted, 1 subnets
B    2.2.2.2/32 [20/2169856] via 192.168.0.6, 00:04:47
  3.0.0.0/32 is subnetted, 1 subnets
B    3.3.3.3/32 [20/2297856] via 192.168.0.6, 00:04:47
  4.0.0.0/32 is subnetted, 1 subnets
C    4.4.4.4/32 is directly connected, Loopback0
  5.0.0.0/32 is subnetted, 1 subnets
B    5.5.5.5/32 [20/0] via 192.168.0.6, 00:04:47
  6.0.0.0/32 is subnetted, 1 subnets
B    6.6.6.6/32 [20/2298112] via 192.168.0.6, 00:04:47
192.168.0.0/24 is variably subnetted, 11 subnets, 2 masks
C    192.168.0.0/30 is directly connected, Serial0/0/0
L    192.168.0.1/32 is directly connected, Serial0/0/0
C    192.168.0.4/30 is directly connected, Serial0/0/1
L    192.168.0.5/32 is directly connected, Serial0/0/1
C    192.168.0.8/30 is directly connected, Serial0/1/0
L    192.168.0.9/32 is directly connected, Serial0/1/0
B    192.168.0.12/30 [20/0] via 192.168.0.6, 00:04:47
B    192.168.0.16/30 [20/0] via 192.168.0.10, 00:04:47
B    192.168.0.20/30 [20/0] via 192.168.0.6, 00:04:47
B    192.168.0.24/30 [20/2169856] via 192.168.0.6, 00:04:47
B    192.168.0.28/30 [20/2169856] via 192.168.0.6, 00:04:47
192.168.1.0/27 is subnetted, 1 subnets
B    192.168.1.0/27 [20/2170112] via 192.168.0.6, 00:04:47
B    192.168.2.0/24 [20/20] via 192.168.0.6, 00:04:47
192.168.3.0/27 is subnetted, 1 subnets
B    192.168.3.0/27 [20/2170112] via 192.168.0.6, 00:04:47
B    192.168.50.0/24 [20/6777856] via 192.168.0.6, 00:04:47
B    192.168.51.0/24 [20/6777856] via 192.168.0.6, 00:04:47
192.168.100.0/27 is subnetted, 1 subnets
B    192.168.100.0/27 [20/20] via 192.168.0.6, 00:04:47
192.168.101.0/27 is subnetted, 1 subnets
B    192.168.101.0/27 [20/1] via 192.168.0.6, 00:04:47
ISP-A#
```

Fresno Router :



The screenshot shows the Fresno Router's IOS Command Line Interface (CLI) with the 'CLI' tab selected. The interface displays a list of network configurations, including subnets and their connections to various interfaces. The text is as follows:

```
Gateway of last resort is not set

  1.0.0.0/32 is subnetted, 1 subnets
C       1.1.1.1/32 is directly connected, Loopback0
  2.0.0.0/32 is subnetted, 1 subnets
D EX    2.2.2.2/32 [170/2681856] via 192.168.0.26, 00:07:00, Serial0/1/1
  3.0.0.0/32 is subnetted, 1 subnets
D EX    3.3.3.3/32 [170/7289856] via 192.168.0.26, 00:07:00, Serial0/1/1
  4.0.0.0/32 is subnetted, 1 subnets
B       4.4.4.4/32 [20/0] via 192.168.0.1, 00:07:09
  5.0.0.0/32 is subnetted, 1 subnets
B       5.5.5.5/32 [20/0] via 192.168.0.13, 00:07:09
  6.0.0.0/32 is subnetted, 1 subnets
D       6.6.6.6/32 [90/130816] via 192.168.1.2, 00:07:08, GigabitEthernet0/1
192.168.0.0/24 is variably subnetted, 11 subnets, 2 masks
C       192.168.0.0/30 is directly connected, Serial0/0/0
L       192.168.0.2/32 is directly connected, Serial0/0/0
B       192.168.0.4/30 [20/0] via 192.168.0.1, 00:07:09
B       192.168.0.8/30 [20/0] via 192.168.0.1, 00:07:09
C       192.168.0.12/30 is directly connected, Serial0/0/1
L       192.168.0.14/32 is directly connected, Serial0/0/1
B       192.168.0.16/30 [20/0] via 192.168.0.13, 00:07:09
B       192.168.0.20/30 [20/0] via 192.168.0.13, 00:07:09
C       192.168.0.24/30 is directly connected, Serial0/1/1
L       192.168.0.25/32 is directly connected, Serial0/1/1
D EX    192.168.0.28/30 [170/7289856] via 192.168.0.26, 00:07:00, Serial0/1/1
192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.1.0/27 is directly connected, GigabitEthernet0/1
L       192.168.1.1/32 is directly connected, GigabitEthernet0/1
D EX    192.168.2.0/24 [170/2681856] via 192.168.0.26, 00:07:00, Serial0/1/1
192.168.3.0/27 is subnetted, 1 subnets
D EX    192.168.3.0/27 [170/7289856] via 192.168.0.26, 00:07:00, Serial0/1/1
D       192.168.50.0/24 [90/25625856] via 192.168.1.2, 00:07:08, GigabitEthernet0/1
D       192.168.51.0/24 [90/25625856] via 192.168.1.2, 00:07:08, GigabitEthernet0/1
192.168.100.0/27 is subnetted, 1 subnets
D EX    192.168.100.0/27 [170/2681856] via 192.168.0.26, 00:07:00, Serial0/1/1
192.168.101.0/27 is subnetted, 1 subnets
D EX    192.168.101.0/27 [170/2681856] via 192.168.0.26, 00:07:00, Serial0/1/1
FresnoR#
```

Fresno L3 Switch :

Fresno L3 Switch

Physical Config CLI

IOS Command Line Interface

i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route

Gateway of last resort is not set

1.0.0.0/32 is subnetted, 1 subnets
D 1.1.1.1 [90/130816] via 192.168.1.1, 00:09:20, GigabitEthernet0/1
2.0.0.0/32 is subnetted, 1 subnets
D EX 2.2.2.2 [170/2682112] via 192.168.1.1, 00:09:11, GigabitEthernet0/1
3.0.0.0/32 is subnetted, 1 subnets
D EX 3.3.3.3 [170/7290112] via 192.168.1.1, 00:09:11, GigabitEthernet0/1
4.0.0.0/32 is subnetted, 1 subnets
D EX 4.4.4.4 [170/6778112] via 192.168.1.1, 00:08:19, GigabitEthernet0/1
5.0.0.0/32 is subnetted, 1 subnets
D EX 5.5.5.5 [170/6778112] via 192.168.1.1, 00:08:20, GigabitEthernet0/1
6.0.0.0/32 is subnetted, 1 subnets
C 6.6.6.6 is directly connected, Loopback0
192.168.0.0/30 is subnetted, 8 subnets
D EX 192.168.0.0 [170/6778112] via 192.168.1.1, 00:09:20, GigabitEthernet0/1
D EX 192.168.0.4 [170/6778112] via 192.168.1.1, 00:08:19, GigabitEthernet0/1
D EX 192.168.0.8 [170/6778112] via 192.168.1.1, 00:08:19, GigabitEthernet0/1
D EX 192.168.0.12 [170/6778112] via 192.168.1.1, 00:09:20, GigabitEthernet0/1
D EX 192.168.0.16 [170/6778112] via 192.168.1.1, 00:08:20, GigabitEthernet0/1
D EX 192.168.0.20 [170/6778112] via 192.168.1.1, 00:08:20, GigabitEthernet0/1
D 192.168.0.24 [90/2170112] via 192.168.1.1, 00:09:20, GigabitEthernet0/1
D EX 192.168.0.28 [170/7290112] via 192.168.1.1, 00:09:11, GigabitEthernet0/1
192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks
C 192.168.1.0/27 is directly connected, GigabitEthernet0/1
C 192.168.1.32/30 is directly connected, Vlan1
D EX 192.168.2.0/24 [170/2682112] via 192.168.1.1, 00:09:11, GigabitEthernet0/1
192.168.3.0/27 is subnetted, 1 subnets
D EX 192.168.3.0 [170/7290112] via 192.168.1.1, 00:09:11, GigabitEthernet0/1
C 192.168.50.0/24 is directly connected, Vlan50
C 192.168.51.0/24 is directly connected, Vlan51
192.168.100.0/27 is subnetted, 1 subnets
D EX 192.168.100.0 [170/2682112] via 192.168.1.1, 00:09:11, GigabitEthernet0/1
192.168.101.0/27 is subnetted, 1 subnets
D EX 192.168.101.0 [170/2682112] via 192.168.1.1, 00:09:11, GigabitEthernet0/1
FresnoS3#

Chicago Router :

