

This is my topology. My number is 21627868 so i use x=6 and y=8

Pinging from PC0 to PC1

```

PC0

Physical  Config  Desktop  Programming  Attributes

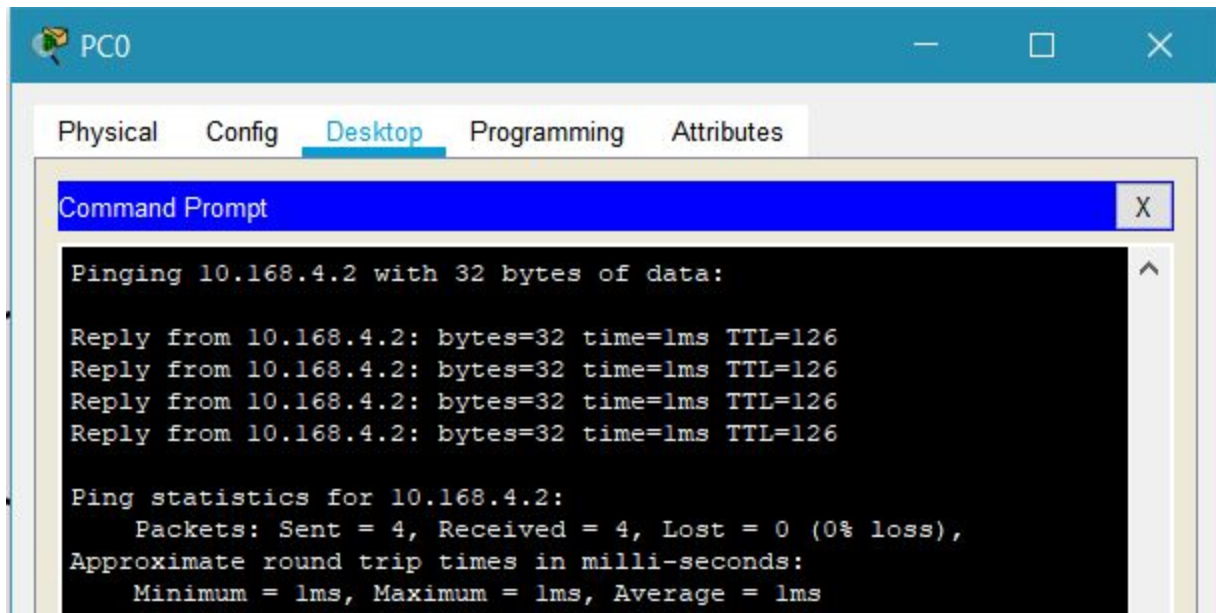
Command Prompt

Pinging 10.168.1.2 with 32 bytes of data:

Reply from 10.168.1.2: bytes=32 time=1ms TTL=126
Reply from 10.168.1.2: bytes=32 time=11ms TTL=126
Reply from 10.168.1.2: bytes=32 time=1ms TTL=126
Reply from 10.168.1.2: bytes=32 time=1ms TTL=126

Ping statistics for 10.168.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 11ms, Average = 3ms
  
```

Pinging from PC0 to PC6



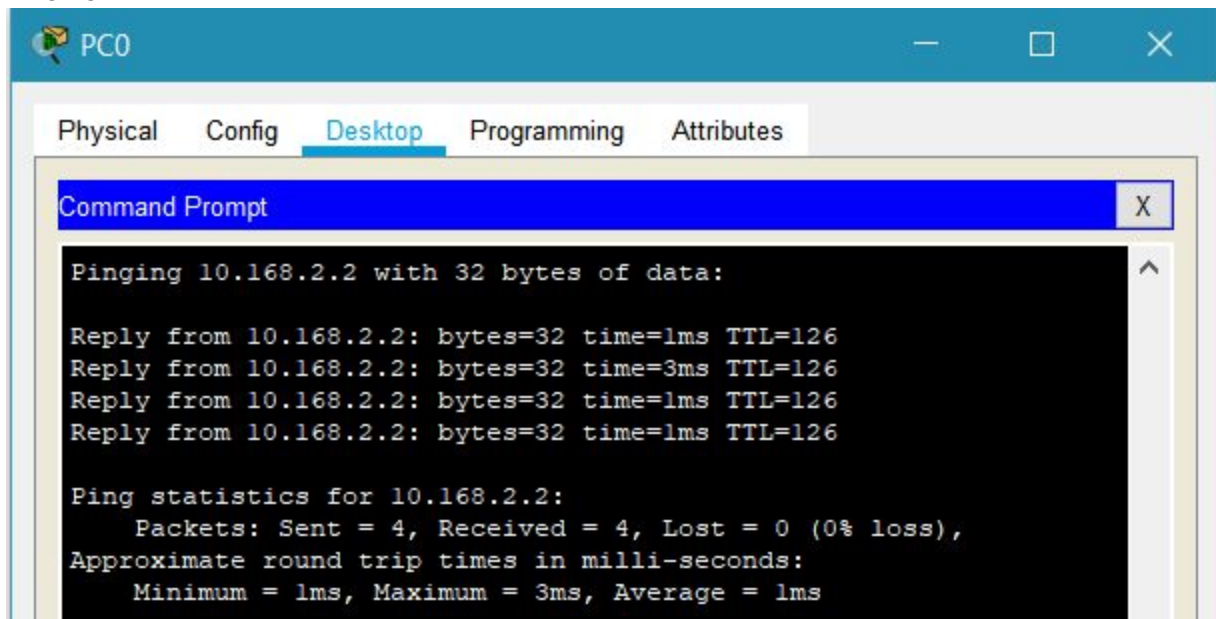
The screenshot shows a window titled "PC0" with a blue header bar. Below the header is a tabbed interface with "Physical", "Config", "Desktop" (selected), "Programming", and "Attributes". The "Desktop" tab contains a "Command Prompt" window. The Command Prompt displays the following text:

```
Pinging 10.168.4.2 with 32 bytes of data:

Reply from 10.168.4.2: bytes=32 time=1ms TTL=126
Reply from 10.168.4.2: bytes=32 time=1ms TTL=126
Reply from 10.168.4.2: bytes=32 time=1ms TTL=126
Reply from 10.168.4.2: bytes=32 time=1ms TTL=126

Ping statistics for 10.168.4.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms
```

Pinging from PC0 to PC5



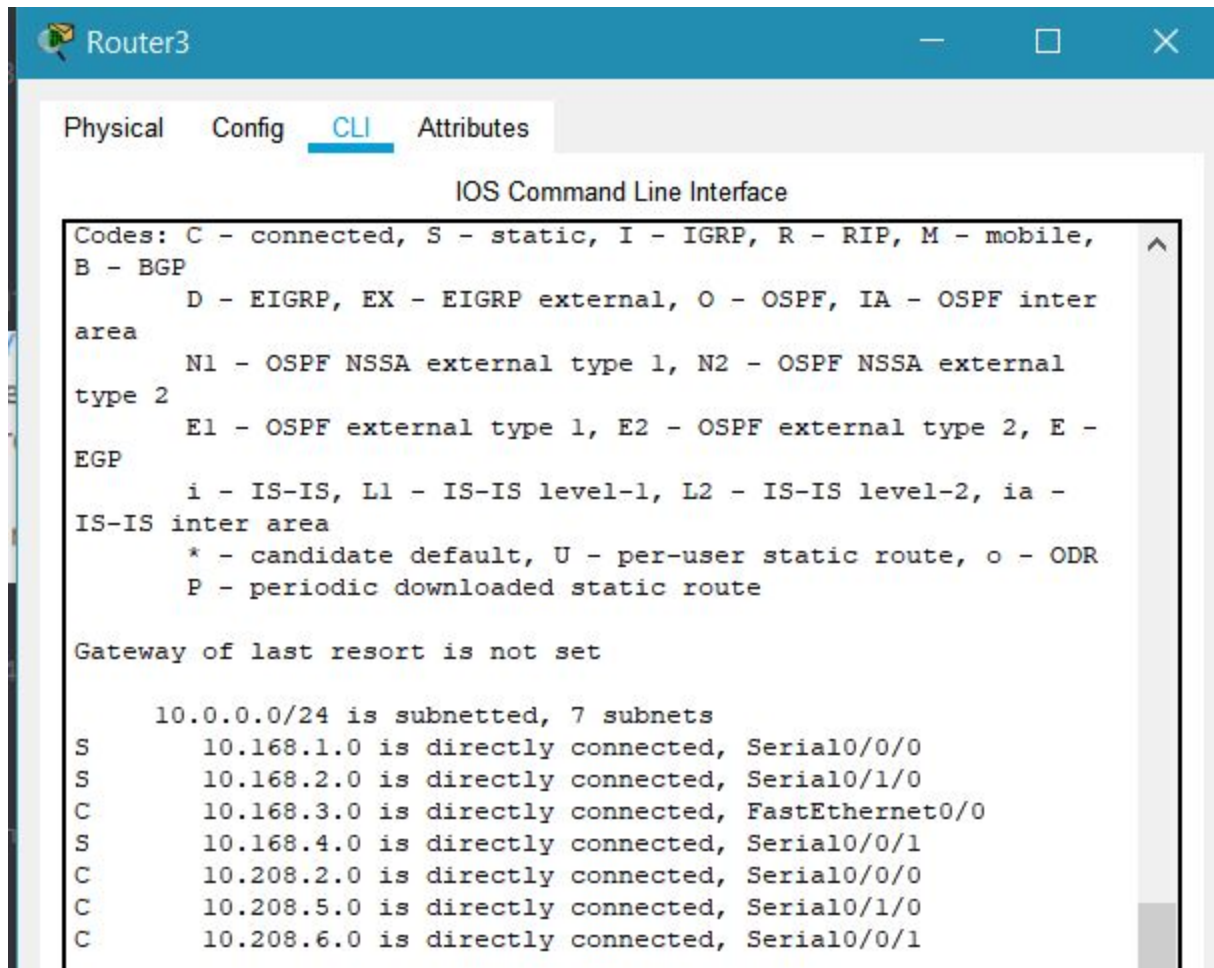
The screenshot shows a window titled "PC0" with a blue header bar. Below the header is a tabbed interface with "Physical", "Config", "Desktop" (selected), "Programming", and "Attributes". The "Desktop" tab contains a "Command Prompt" window. The Command Prompt displays the following text:

```
Pinging 10.168.2.2 with 32 bytes of data:

Reply from 10.168.2.2: bytes=32 time=1ms TTL=126
Reply from 10.168.2.2: bytes=32 time=3ms TTL=126
Reply from 10.168.2.2: bytes=32 time=1ms TTL=126
Reply from 10.168.2.2: bytes=32 time=1ms TTL=126

Ping statistics for 10.168.2.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 3ms, Average = 1ms
```

Show ip route for router3



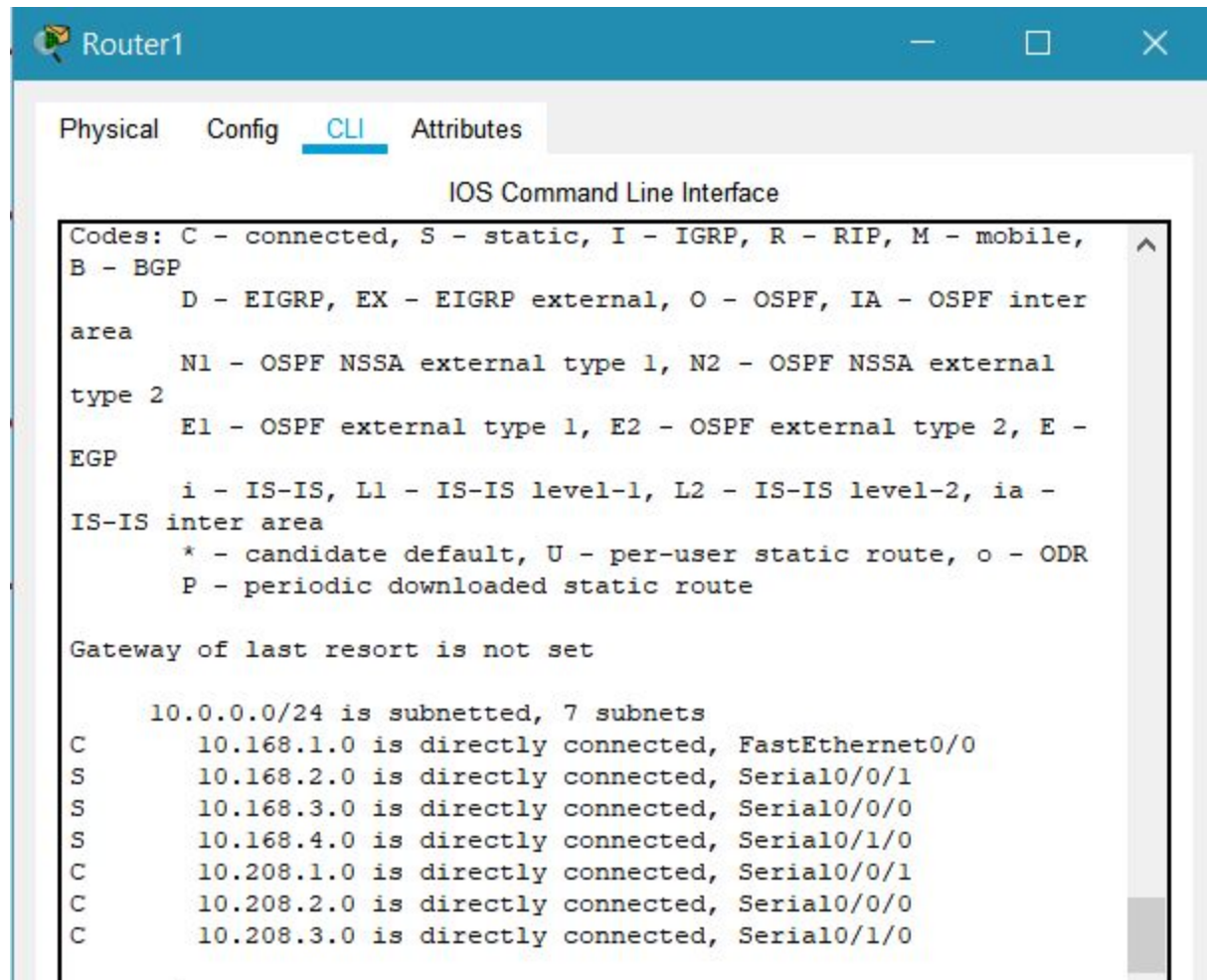
The screenshot shows a window titled "Router3" with a blue header bar. Below the header, there are four tabs: "Physical", "Config", "CLI", and "Attributes". The "CLI" tab is selected and highlighted with a blue underline. The main content area is titled "IOS Command Line Interface" and displays the output of the "show ip route" command. The output includes a legend for route codes, a statement about the gateway of last resort, and a list of connected routes with their respective interfaces.

```
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile,
B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter
area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external
type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E -
EGP
       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

    10.0.0.0/24 is subnetted, 7 subnets
S       10.168.1.0 is directly connected, Serial0/0/0
S       10.168.2.0 is directly connected, Serial0/1/0
C       10.168.3.0 is directly connected, FastEthernet0/0
S       10.168.4.0 is directly connected, Serial0/0/1
C       10.208.2.0 is directly connected, Serial0/0/0
C       10.208.5.0 is directly connected, Serial0/1/0
C       10.208.6.0 is directly connected, Serial0/0/1
```

Show ip route for router1



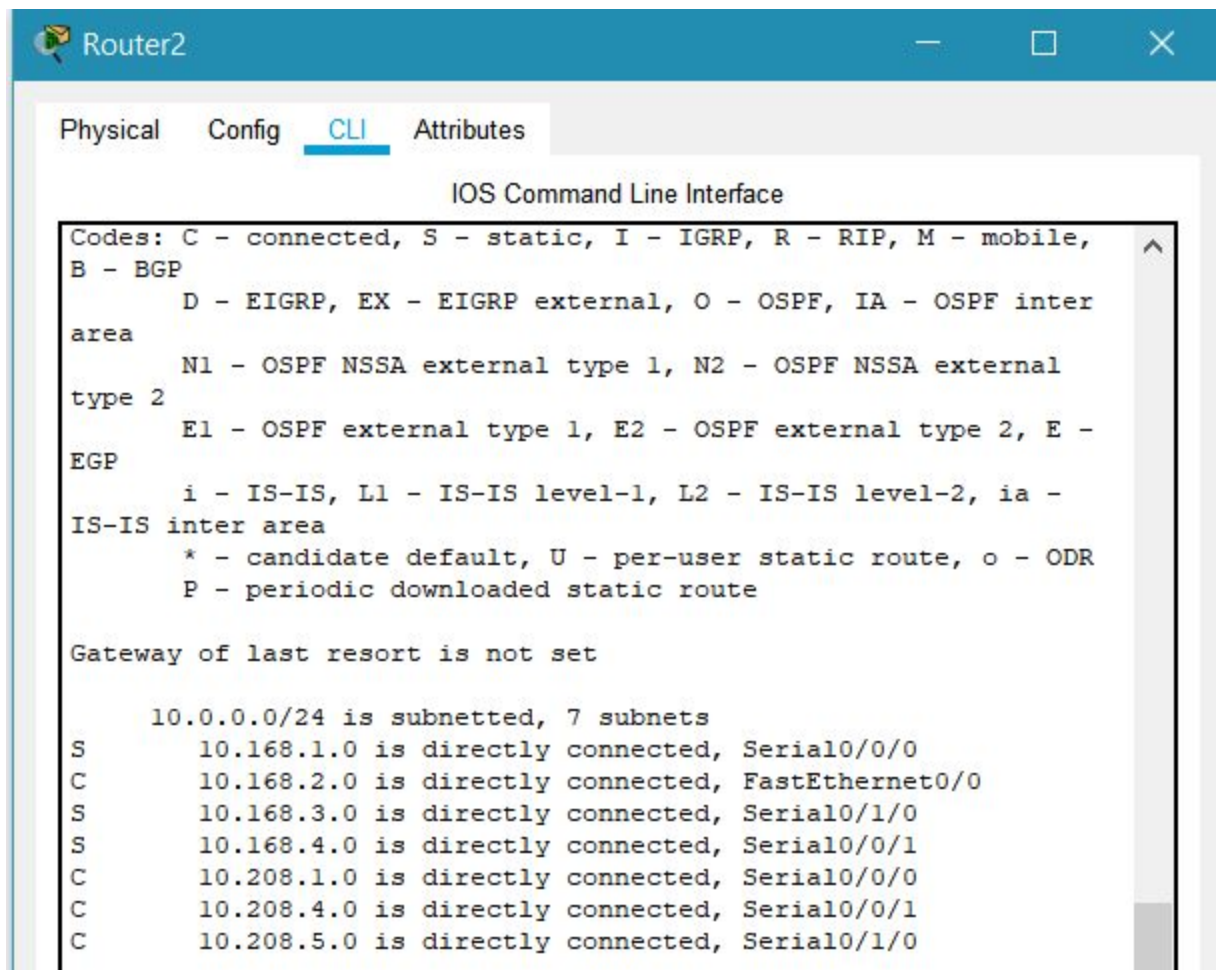
The screenshot shows a window titled "Router1" with a blue header bar. Below the header, there are four tabs: "Physical", "Config", "CLI" (which is selected and highlighted with a blue underline), and "Attributes". The main content area is titled "IOS Command Line Interface" and displays the output of the "show ip route" command. The output includes a legend for route codes, a note about the gateway of last resort, and a list of connected routes with their respective interfaces.

```
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile,
B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter
area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external
type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E -
EGP
       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

    10.0.0.0/24 is subnetted, 7 subnets
C      10.168.1.0 is directly connected, FastEthernet0/0
S      10.168.2.0 is directly connected, Serial0/0/1
S      10.168.3.0 is directly connected, Serial0/0/0
S      10.168.4.0 is directly connected, Serial0/1/0
C      10.208.1.0 is directly connected, Serial0/0/1
C      10.208.2.0 is directly connected, Serial0/0/0
C      10.208.3.0 is directly connected, Serial0/1/0
```

Show ip route for router2



The screenshot shows a window titled "Router2" with a blue header bar. Below the header, there are four tabs: "Physical", "Config", "CLI" (which is selected and highlighted with a blue underline), and "Attributes". The main content area is titled "IOS Command Line Interface" and displays the output of the "show ip route" command. The output includes a legend for route codes, a statement about the gateway of last resort, and a list of connected routes with their respective interfaces.

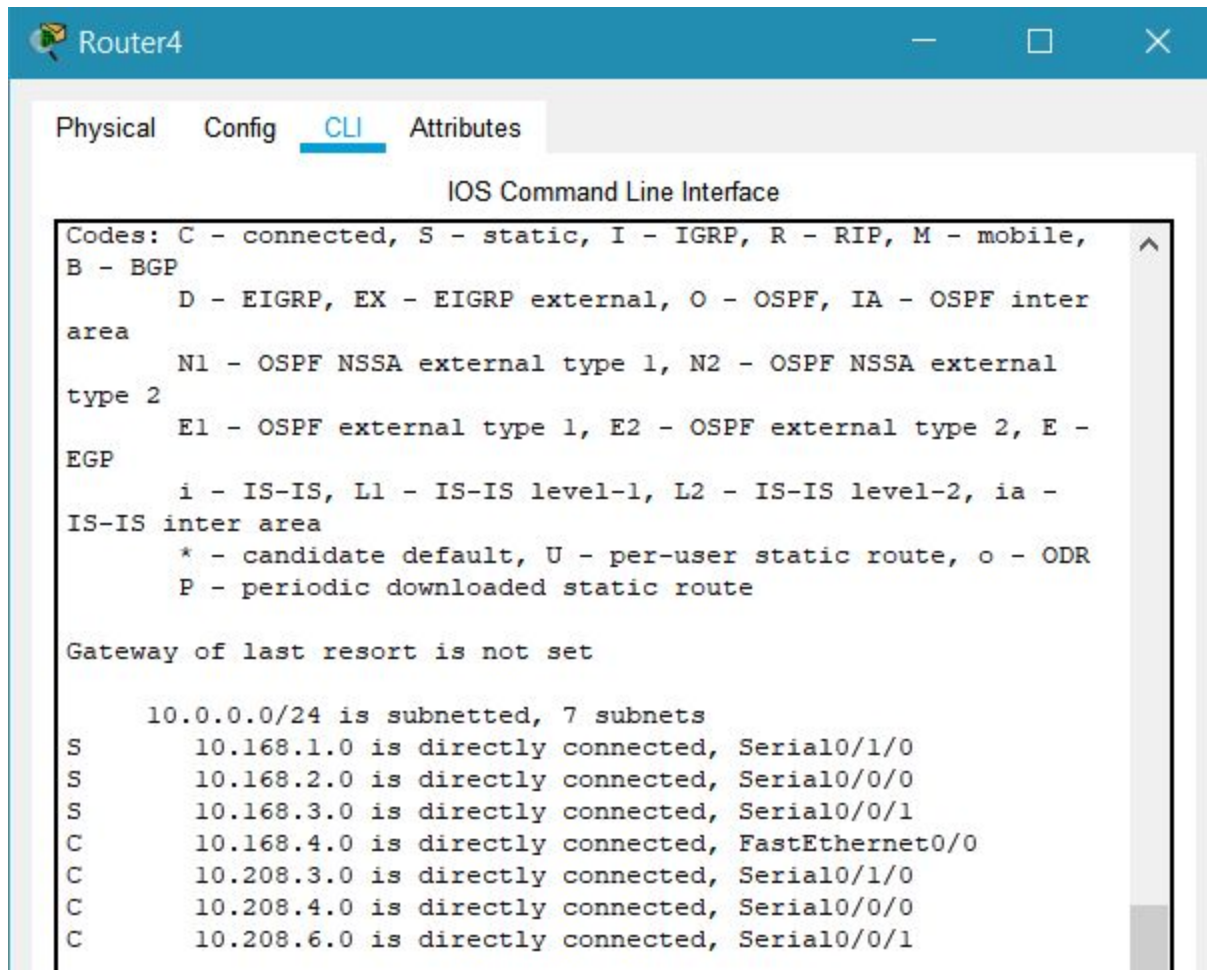
```
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile,
B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter
area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external
type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E -
EGP
       i - IS-IS, 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

10.0.0.0/24 is subnetted, 7 subnets
S      10.168.1.0 is directly connected, Serial0/0/0
C      10.168.2.0 is directly connected, FastEthernet0/0
S      10.168.3.0 is directly connected, Serial0/1/0
S      10.168.4.0 is directly connected, Serial0/0/1
C      10.208.1.0 is directly connected, Serial0/0/0
C      10.208.4.0 is directly connected, Serial0/0/1
C      10.208.5.0 is directly connected, Serial0/1/0
```



Show ip route for router4



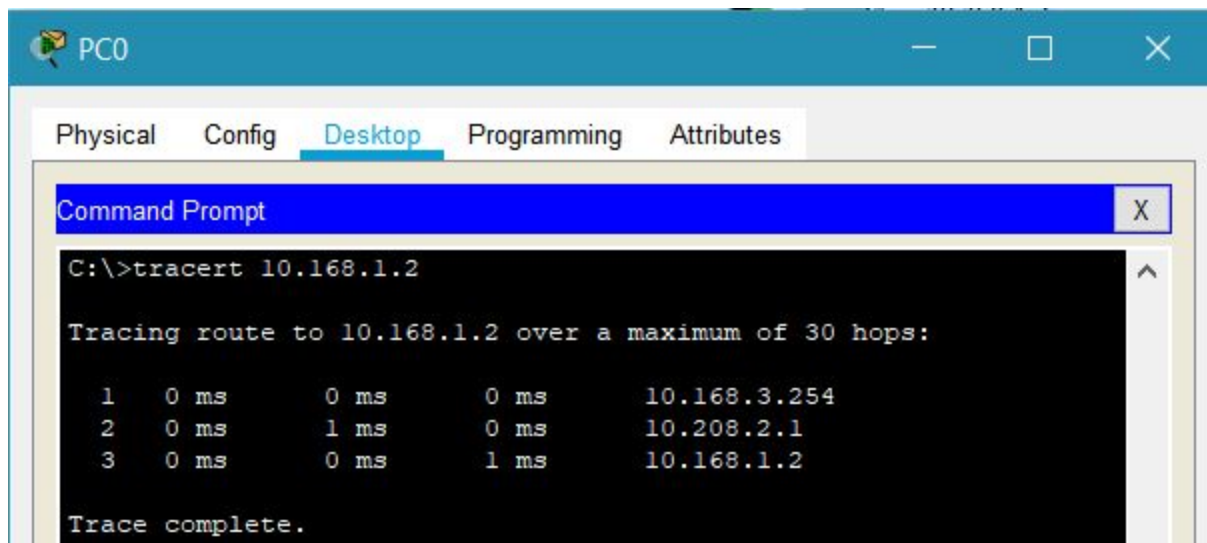
The image shows a window titled "Router4" with tabs for Physical, Config, CLI, and Attributes. The CLI tab is active, displaying the "IOS Command Line Interface". It lists various routing codes (C, S, I, R, M, B, D, N1, N2, E1, E2, E, i, L1, L2, ia, \*, U, o, P) and their meanings. Below this, it states "Gateway of last resort is not set". Finally, it displays the IP routing table for 10.0.0.0/24, showing 7 subnets and their respective interfaces.

```
Router4
Physical Config CLI Attributes
IOS Command Line Interface
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter
       area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external
       type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E -
       EGP
       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

10.0.0.0/24 is subnetted, 7 subnets
S      10.168.1.0 is directly connected, Serial0/1/0
S      10.168.2.0 is directly connected, Serial0/0/0
S      10.168.3.0 is directly connected, Serial0/0/1
C      10.168.4.0 is directly connected, FastEthernet0/0
C      10.208.3.0 is directly connected, Serial0/1/0
C      10.208.4.0 is directly connected, Serial0/0/0
C      10.208.6.0 is directly connected, Serial0/0/1
```

Traceroute from pc0 to pc4



The image shows a window titled "PC0" with tabs for Physical, Config, Desktop, Programming, and Attributes. The Desktop tab is active, displaying a "Command Prompt" window. The command prompt shows the execution of the "tracert 10.168.1.2" command, which traces the route from the PC to the destination IP address. The output shows three hops: Hop 1 to 10.168.3.254, Hop 2 to 10.208.2.1, and Hop 3 to 10.168.1.2. The trace is complete.

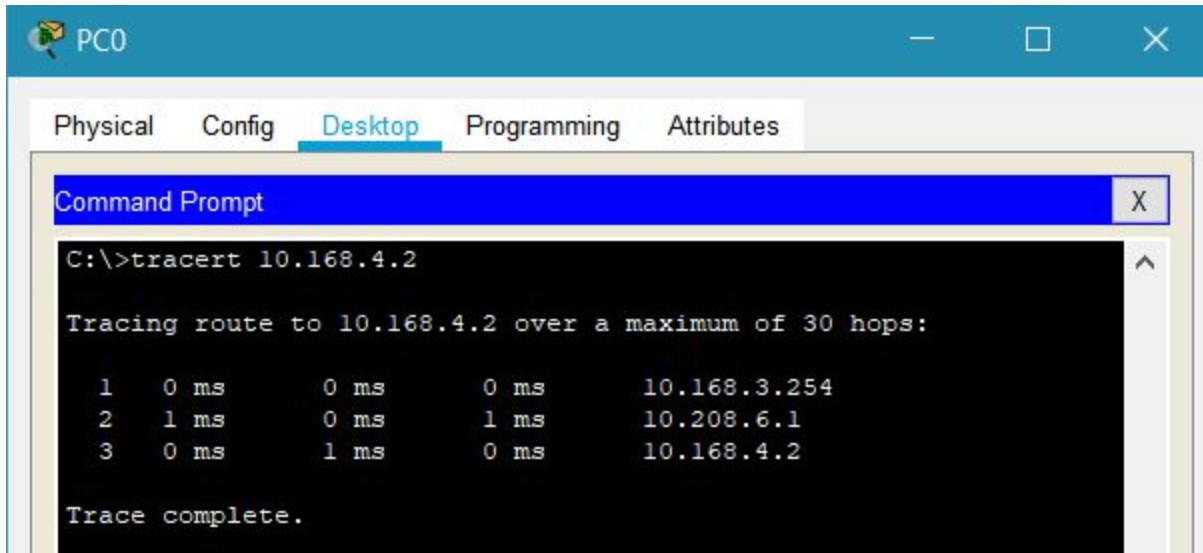
```
PC0
Physical Config Desktop Programming Attributes
Command Prompt
C:\>tracert 10.168.1.2

Tracing route to 10.168.1.2 over a maximum of 30 hops:

  1  0 ms    0 ms    0 ms    10.168.3.254
  2  0 ms    1 ms    0 ms    10.208.2.1
  3  0 ms    0 ms    1 ms    10.168.1.2

Trace complete.
```

Traceroute from pc0 to pc6



The screenshot shows a window titled "PC0" with a blue header bar. Below the header is a tabbed interface with four tabs: "Physical", "Config", "Desktop" (which is selected and highlighted in blue), "Programming", and "Attributes". Inside the "Desktop" tab is a "Command Prompt" window. The Command Prompt has a title bar with "X" and a scroll bar on the right. The text in the Command Prompt is as follows:

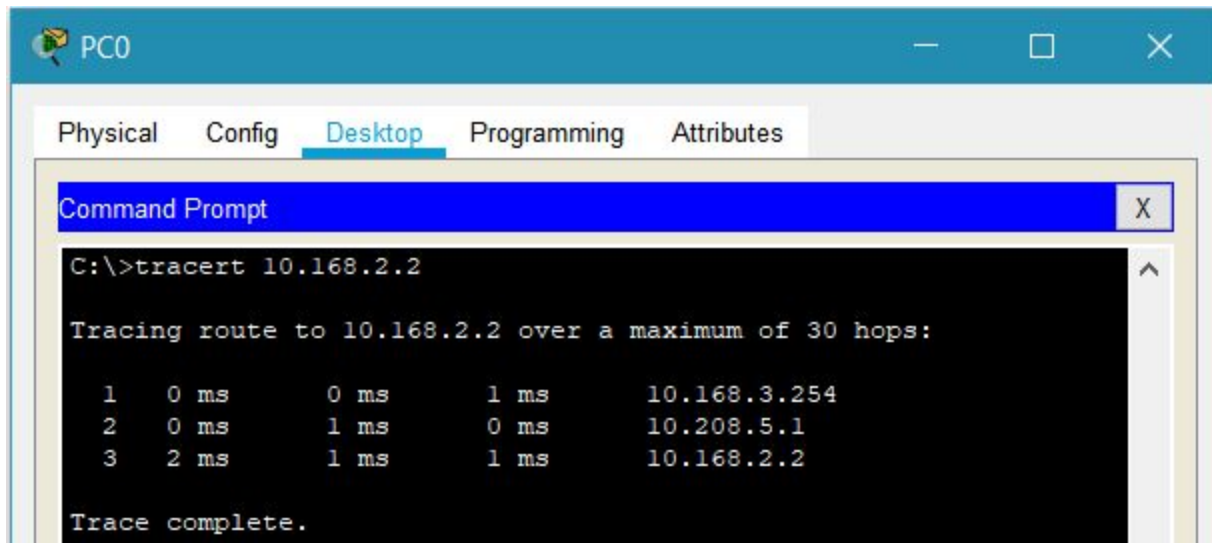
```
C:\>tracert 10.168.4.2

Tracing route to 10.168.4.2 over a maximum of 30 hops:

  1  0 ms    0 ms    0 ms    10.168.3.254
  2  1 ms    0 ms    1 ms    10.208.6.1
  3  0 ms    1 ms    0 ms    10.168.4.2

Trace complete.
```

Traceroute from pc0 to pc5



The screenshot shows a window titled "PC0" with a blue header bar. Below the header is a tabbed interface with four tabs: "Physical", "Config", "Desktop" (which is selected and highlighted in blue), "Programming", and "Attributes". Inside the "Desktop" tab is a "Command Prompt" window. The Command Prompt has a title bar with "X" and a scroll bar on the right. The text in the Command Prompt is as follows:

```
C:\>tracert 10.168.2.2

Tracing route to 10.168.2.2 over a maximum of 30 hops:

  1  0 ms    0 ms    1 ms    10.168.3.254
  2  0 ms    1 ms    0 ms    10.208.5.1
  3  2 ms    1 ms    1 ms    10.168.2.2

Trace complete.
```