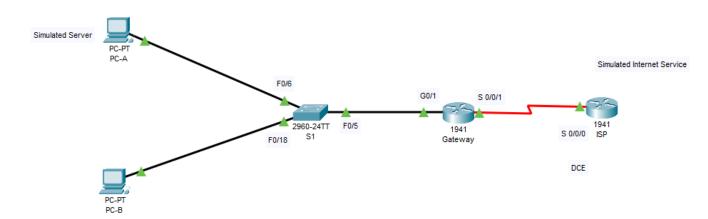
Date: 17/10/2020

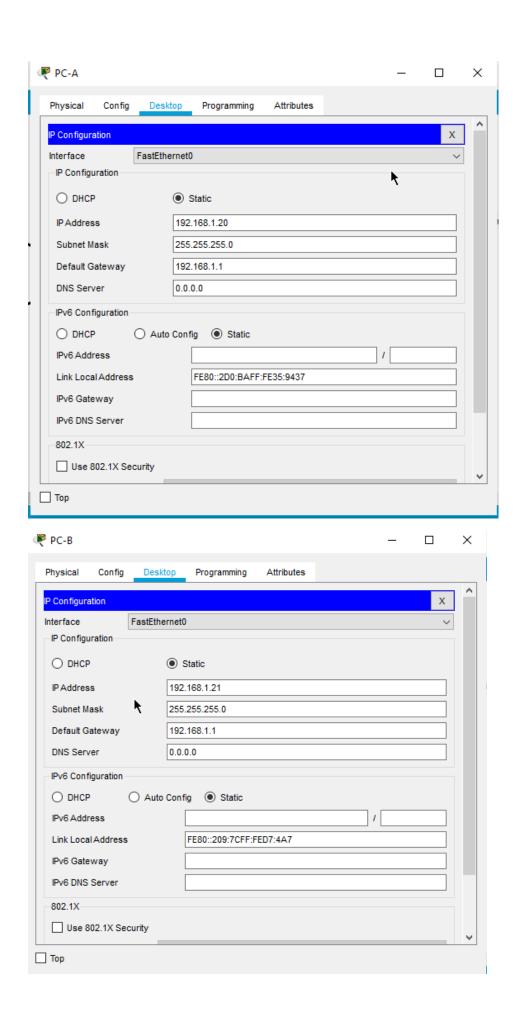
Abhir Singh 2018130008

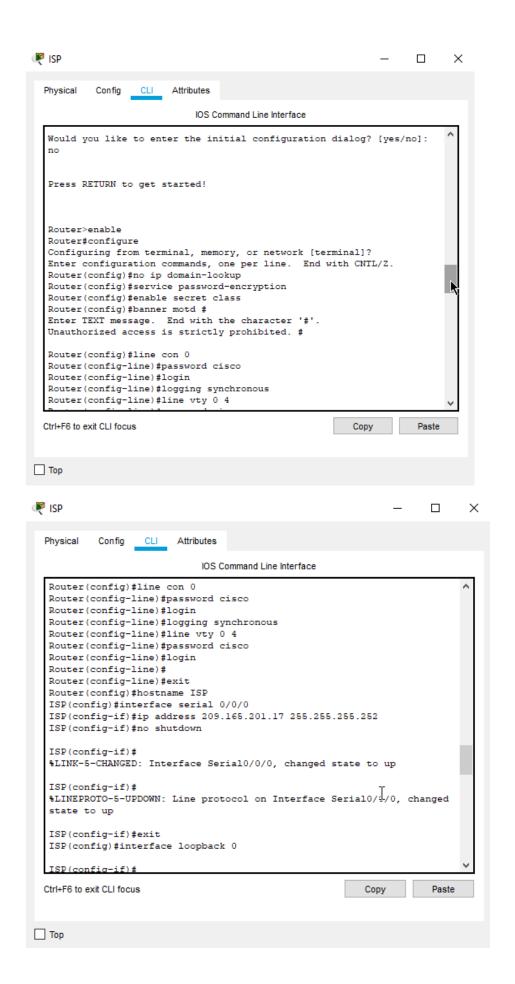
Ebrahim Gabajiwala 2018130010

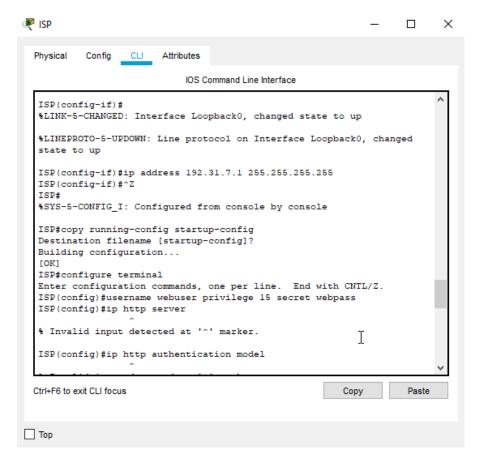
Tanay Bagayatkar 2019230065

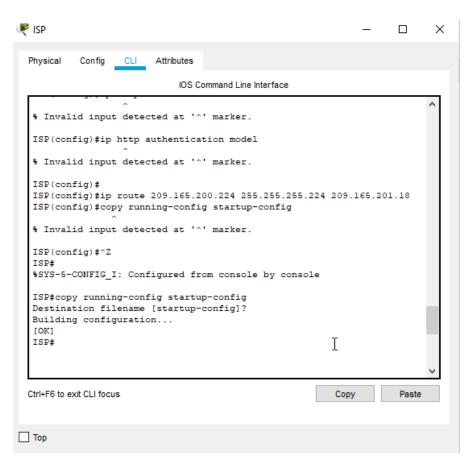
Task 1: Build the Network and Verify Connectivity

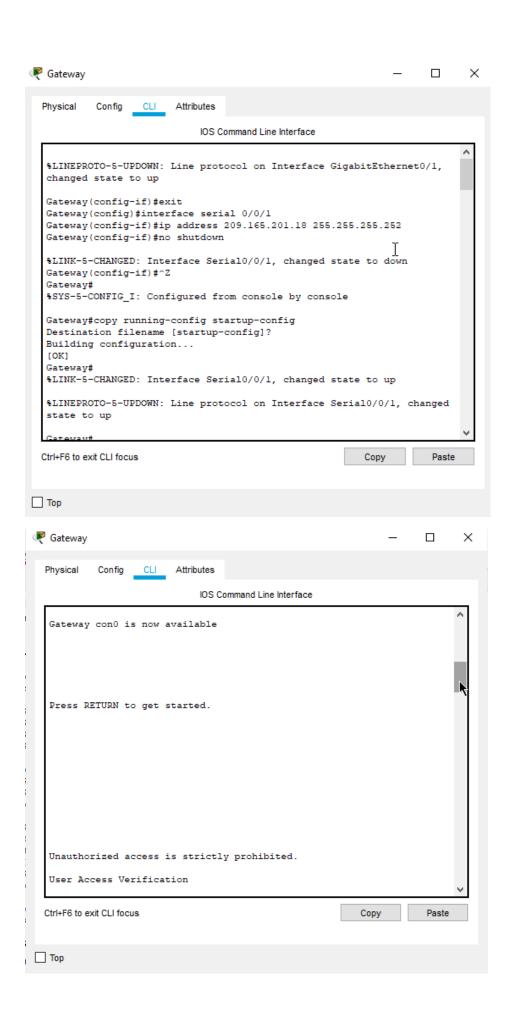


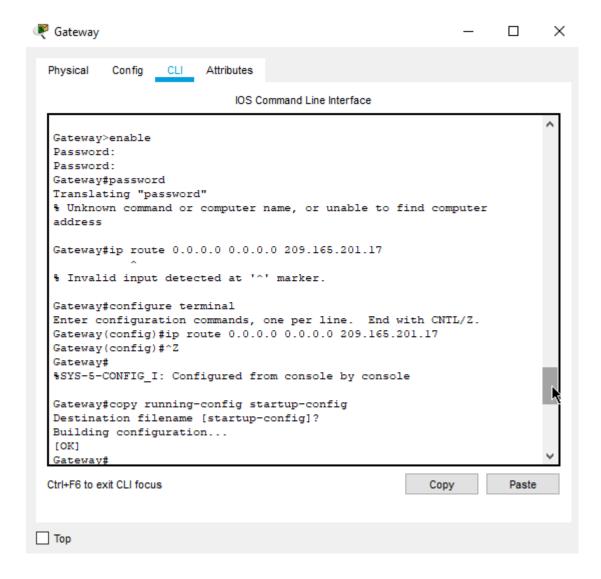


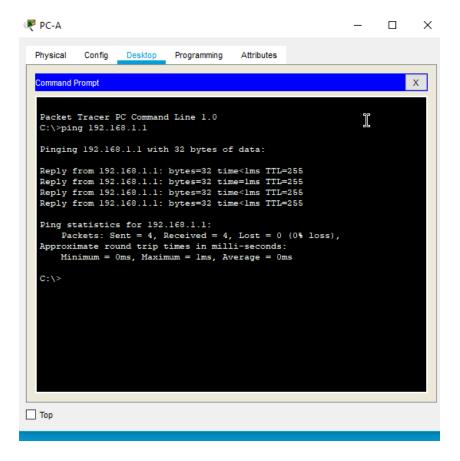


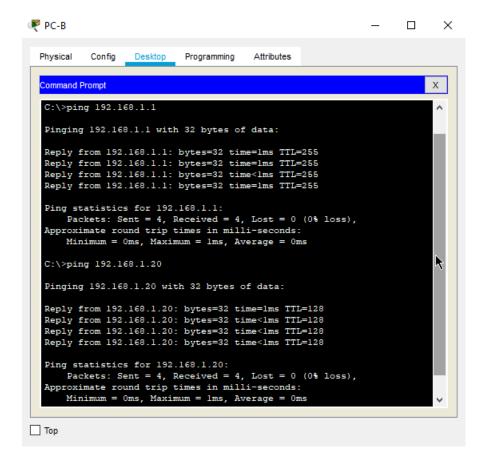






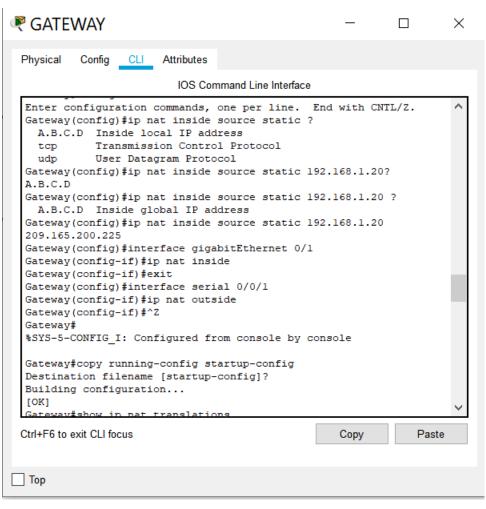






```
Gateway
                                                                      Physical Config CLI Attributes
                               IOS Command Line Interface
   Password:
   Password:
   Gateway#show ip route
   Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B -
          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 \( \text{IS-IS level-2}, ia - IS-IS \)
   inter area
           * - candidate default, U - per-user static route, o - ODR
          P - periodic downloaded static route
   Gateway of last resort is 209.165.201.17 to network 0.0.0.0
        192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks
           192.168.1.0/24 is directly connected, GigabitEthernet0/1
           192.168.1.1/32 is directly connected, GigabitEthernet0/1
       209.165.201.0/24 is variably subnetted, 2 subnets, 2 masks
   C
           209.165.201.16/30 is directly connected, Serial0/0/1
           209.165.201.18/32 is directly connected, SerialO/O/1
   L
   S*
       0.0.0.0/0 [1/0] via 209.165.201.17
  Gateway#
  Ctrl+F6 to exit CLI focus
                                                             Сору
                                                                         Paste
□ Тор
₹ ISP
                                                                         П
                                                                                 X
 Physical
          Config CLI Attributes
                               IOS Command Line Interface
  ISP>enable
  Password:
   Password:
   ISP#show ip route
   Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B -
          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
          * - candidate default, U - per-user static route, o - ODR
          P - periodic downloaded static route
   Gateway of last resort is not set
        192.31.7.0/32 is subnetted, 1 subnets
           192.31.7.1/32 is directly connected, Loopback0
        209.165.200.0/27 is subnetted, 1 subnets
          209.165.200.224/27 [1/0] v+a 209.165.201.18
   s
        209.165.201.0/24 is variably subnetted, 2 subnets, 2 masks
   C
          209.165.201.16/30 is directly connected, Serial0/0/0
           209.165.201.17/32 is directly connected, Serial0/0/0
  ISP#
 Ctrl+F6 to exit CLI focus
                                                             Copy
□ Тор
```

Task 2: Configure and Verify Static NAT





What is the translation of the Inside local host address?

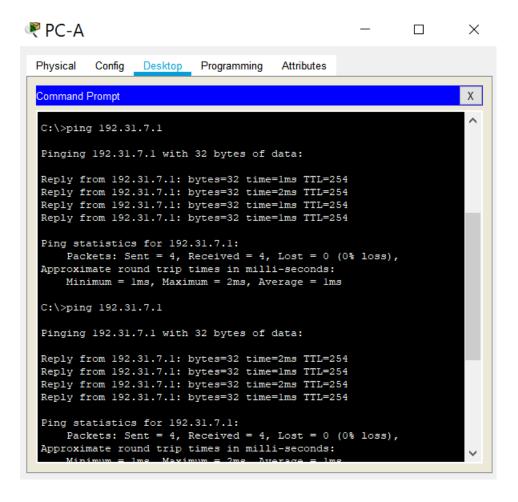
172.168.1.20 = 209.165.200.225

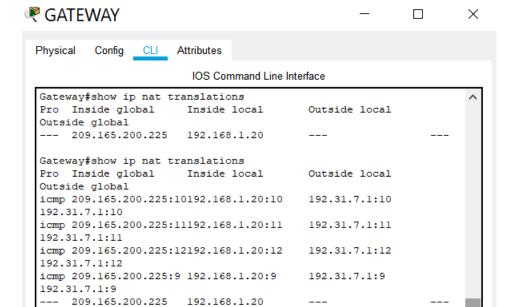
The Inside global address is assigned by?

ISP(Static) NAT Pool (Dynamic)

The Inside local address is assigned by?

System Administrator

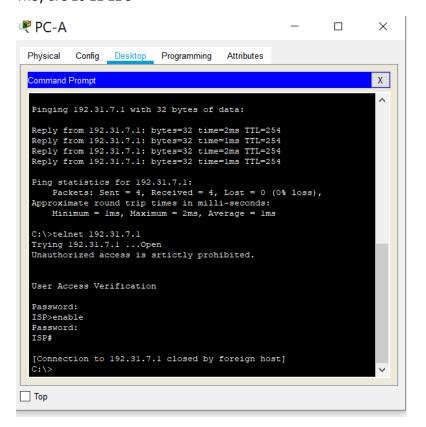


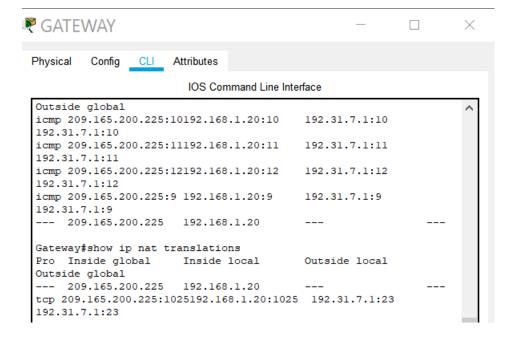


What port number was used in this ICMP exchange?

4 port numbers were used for 4 ICMP exchanges for 4 pings.

They are 10 11 12 9





What was the protocol used in this translation?

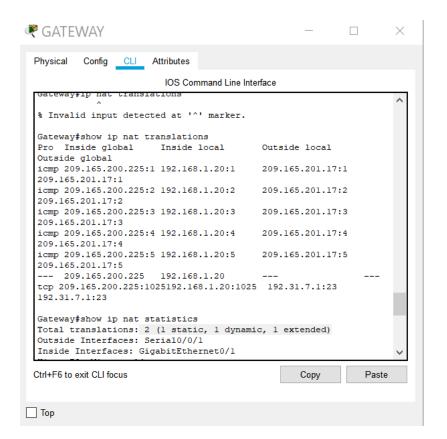
TCP

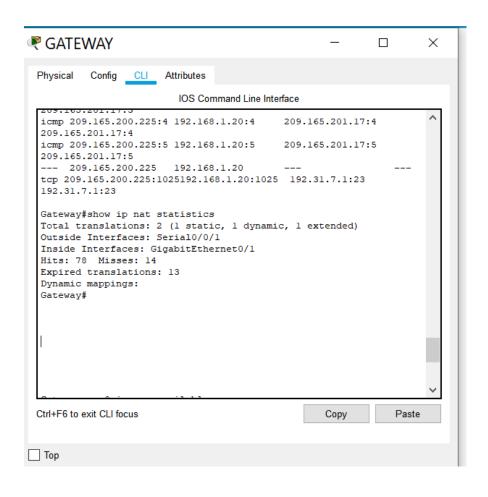
What are the port numbers used?

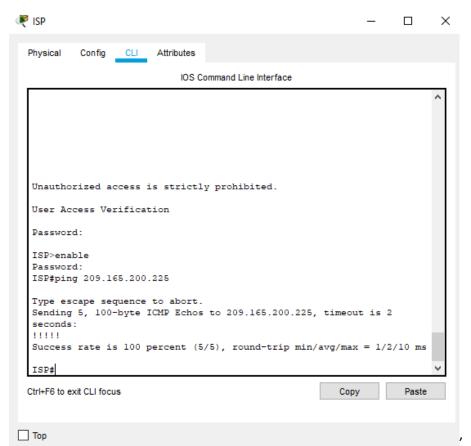
Inside global / local: 1025

Outside global / local: 23

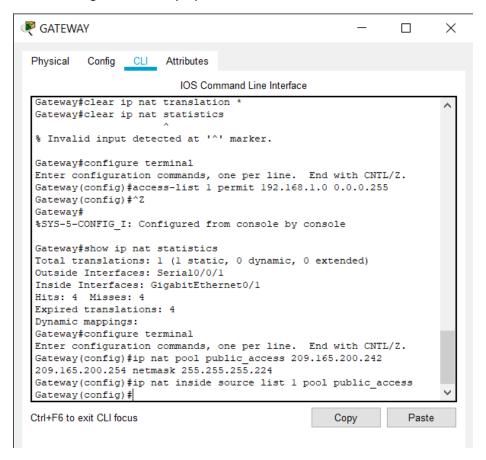


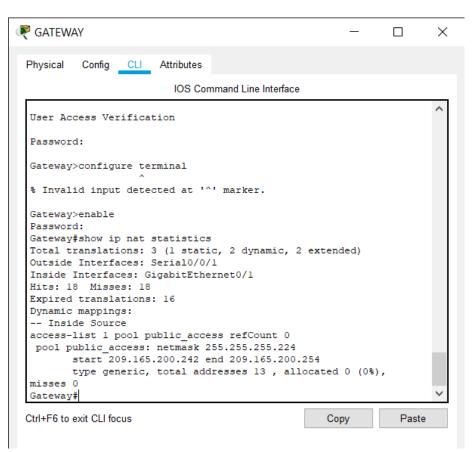


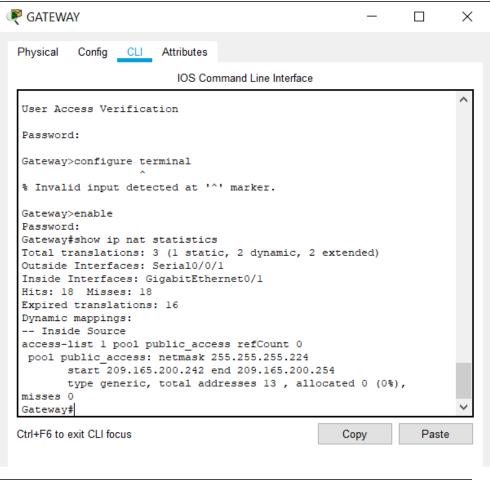


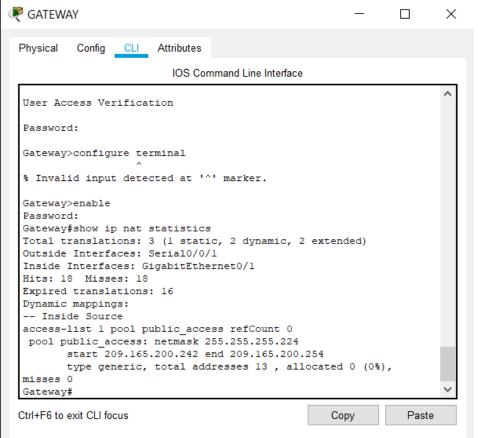


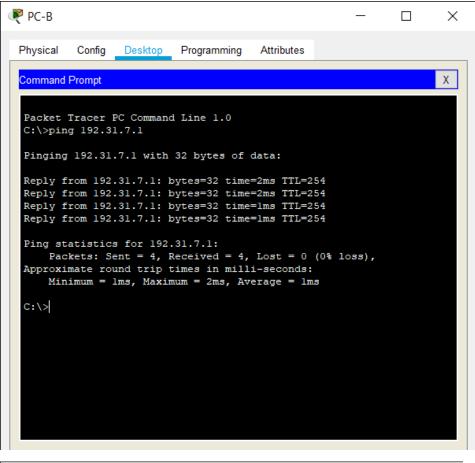
Task 3: Configure and Verify Dynamic NAT

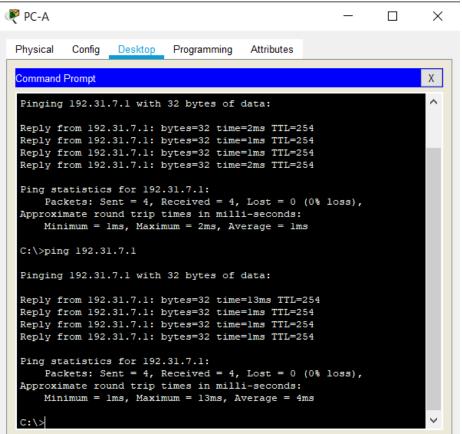


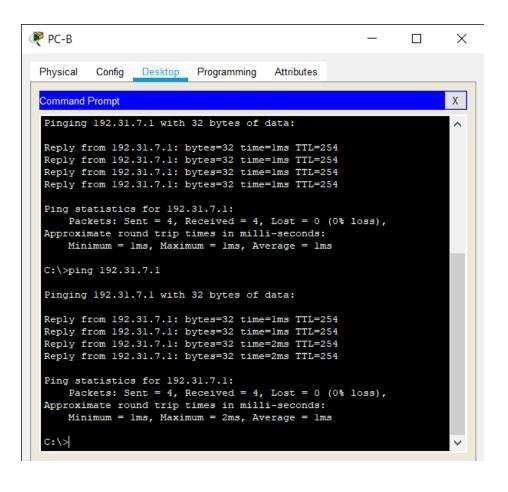


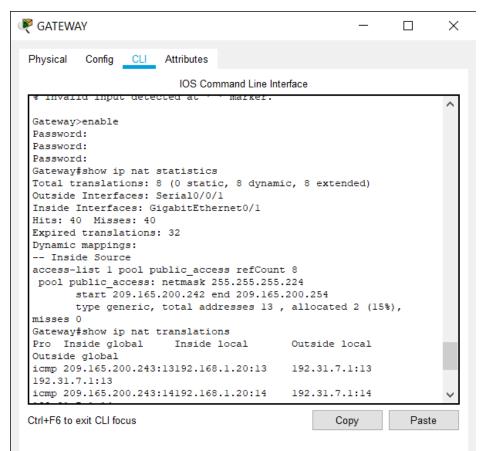


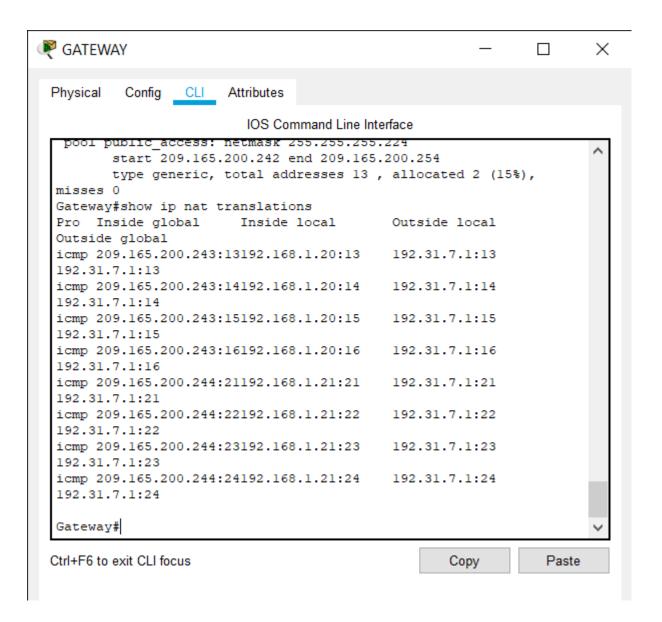












What is the translation of the Inside local host address for PC-B?

192.168.1.21 = 209.165.200.243

What port number was used in this ICMP exchange?

4 port numbers were used for 4 ICMP exchanges for 4 pings.

They are 13, 14, 15, 16.

What protocol was used in this translation?

TCP

What port numbers were used?

Inside: 13,14,15,16

Outside: 13,14,15,16

What well-known port number and service was used?

TCP service