Bilgisayar Ağları

Sorularla Tekrar II

Which of the following are valid host addresses when using the mask 255.255.248.0? (Choose three.)

- ○ **A.** 34.45.56.0
- ○ **B.** 40.50.60.0
- ○ **C.** 50.60.70.255
- ○ **D.** 51.61.71.255
- ○ **E.** 60.70.80.0
- ○ **F.** 60.70.80.255

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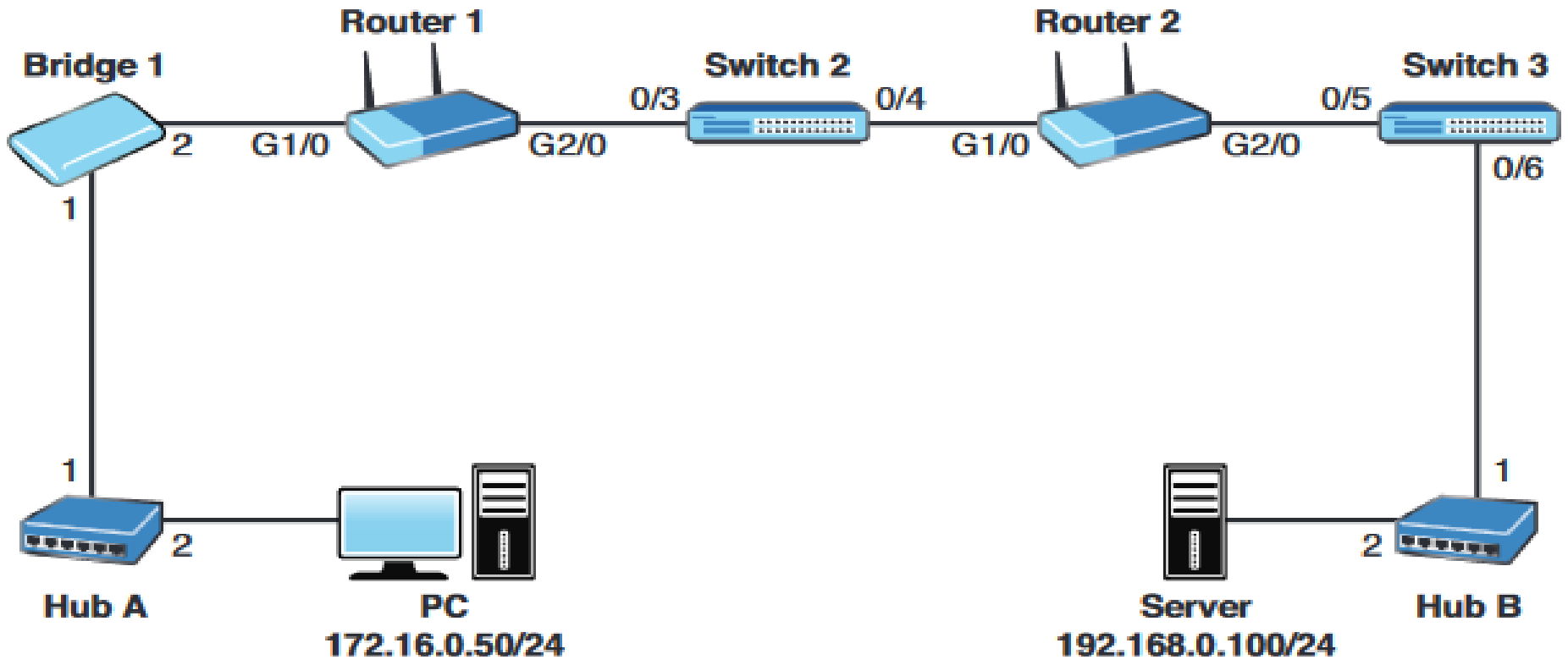
Examine the topology shown here. How many collision domains exist between the PC and Router 1?



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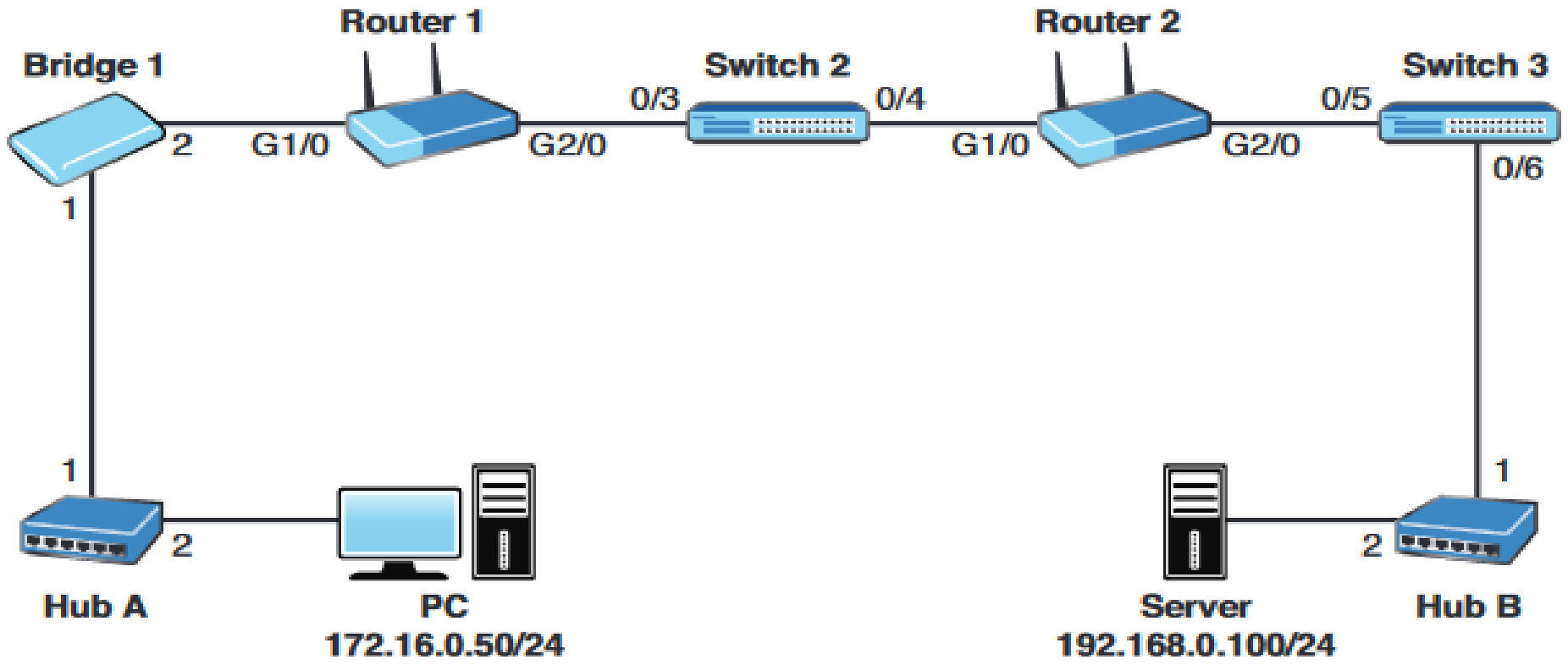

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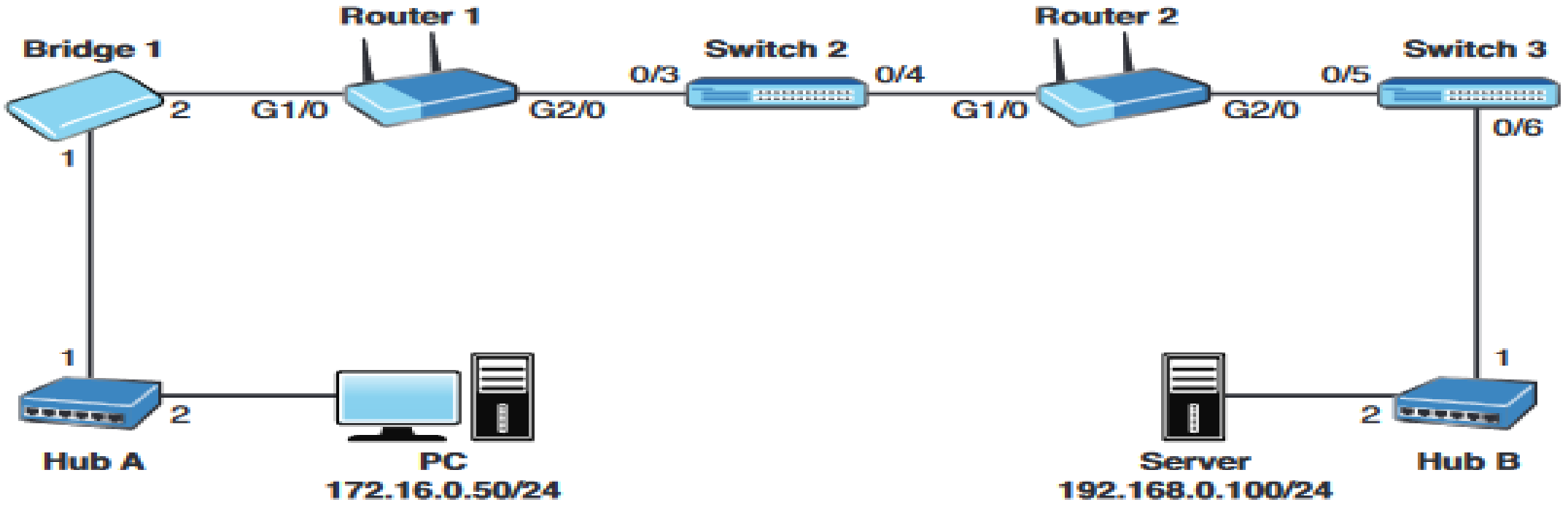

- ○ **A.** Ethernet cabling
- ○ **B.** Bridge 1
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- ○ **D.** Hub A
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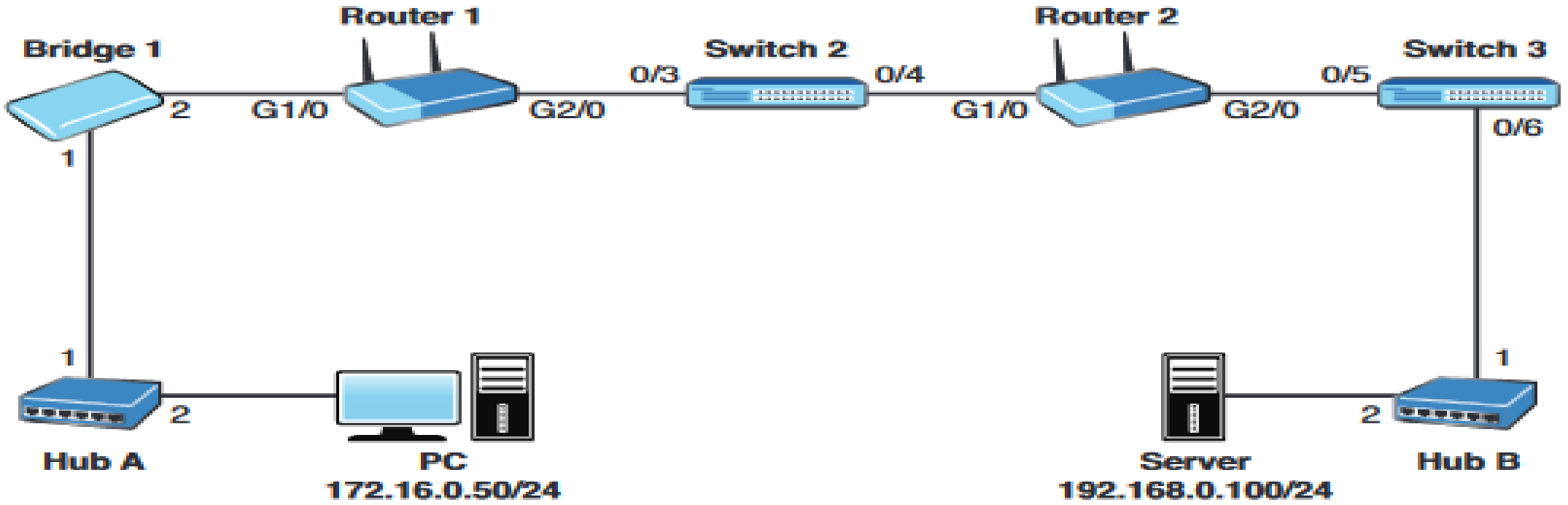

- A. Ethernet cabling
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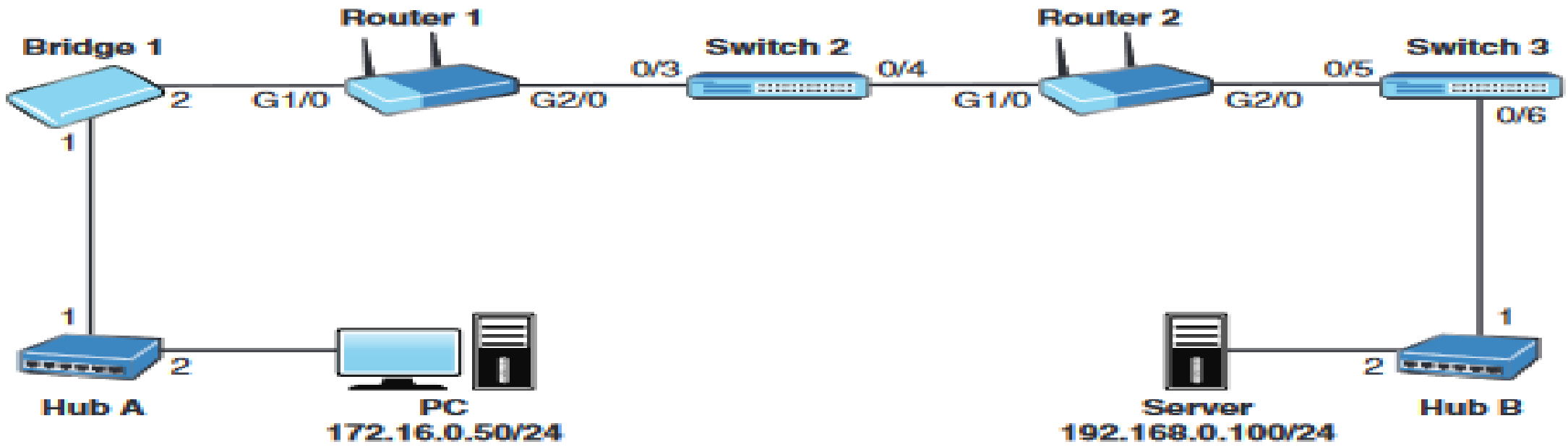
In the network depicted, the server is sending HTTP content back to the PC that requested it. Which of the following is true as the packets are forwarded over the network?



- ○ **A.** The bridges and switches use Ethernet addresses to make forwarding decisions.
- ○ **B.** The hubs, bridges, and switches use Ethernet addresses to make forwarding decisions.
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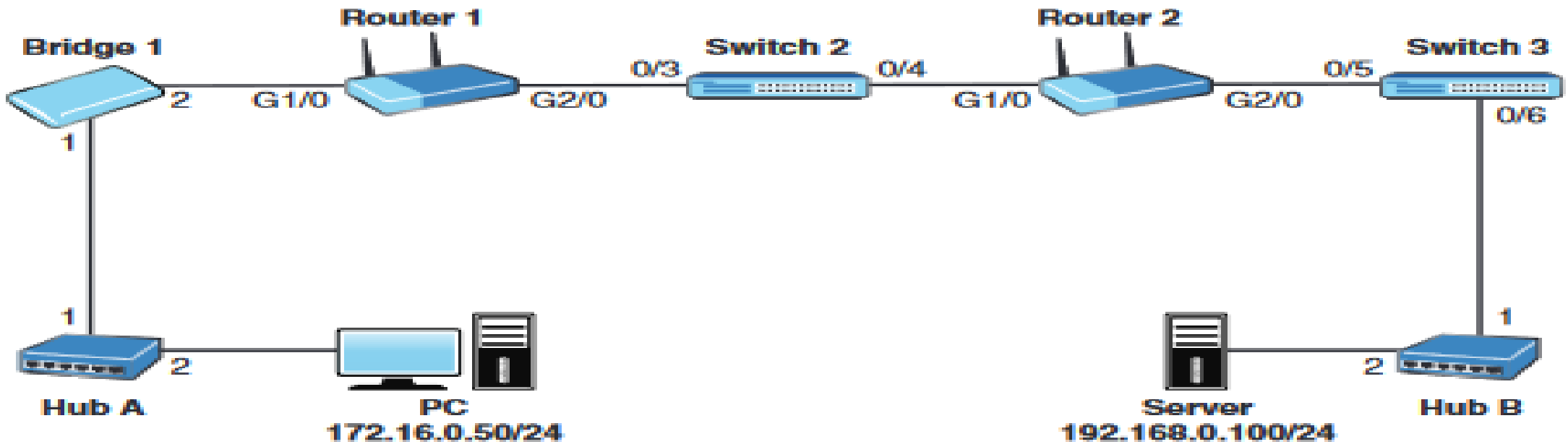

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What is the IPv4 address range 224.0.0.0 to 239.255.255.255 used for?

- ○ **A.** To send a packet to all systems
- ○ **B.** To send a packet to a group of systems
- ○ **C.** To send a packet to a single specific system
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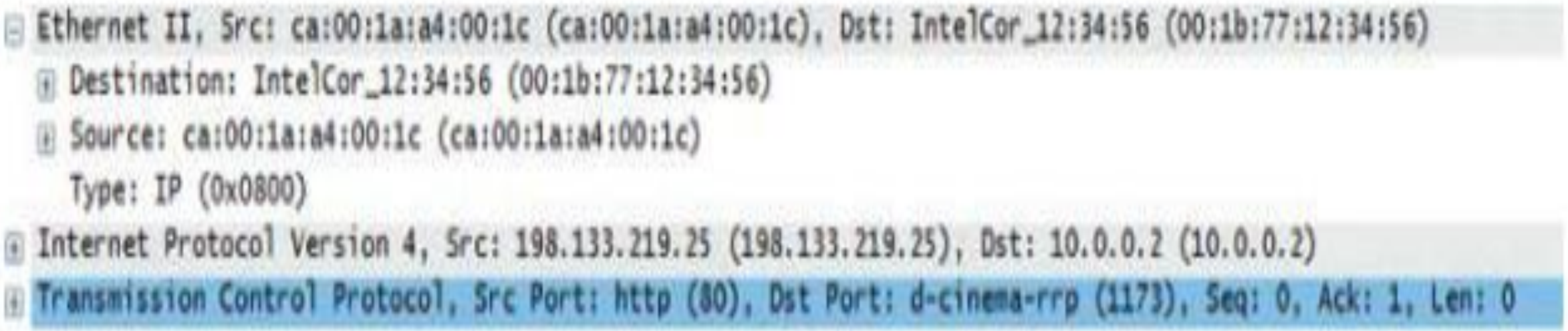
Examine the figure. What is the Layer 2 destination address?



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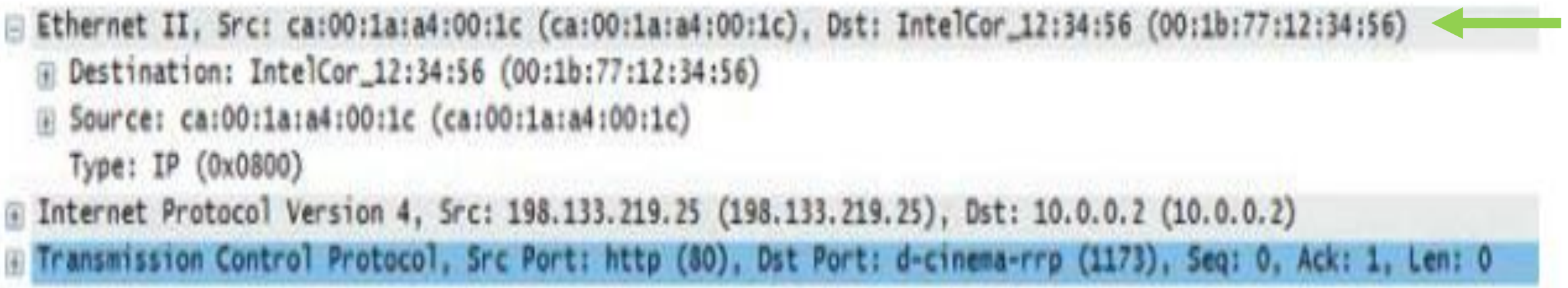

What is the last usable host address, given the IP address and subnet mask 172.16.10.101 with 255.255.224.0?

Which of the following addresses is a private-use-only address?

- ○ **A.** 12.43.56.120
- ○ **B.** 177.12.34.19
- ○ **C.** 201.92.34.100
- ○ **D.** 10.123.23.104

What transport layer protocol provides sequencing and synchronization?

- ○ **A.** HTTP
- ○ **B.** TCP
- ○ **C.** ICMP
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Examine the configuration that follows. What is the next hop for 10.10.20.0/24?

```
ip route 10.10.20.0 255.255.255.0 172.16.1.1
```

- ○ **A.** 255.255.255.0
- ○ **B.** 10.10.20.1
- ○ **C.** 172.16.1.1
- ○ **D.** 0.0.0.0

Examine the access list shown here. What is the issue with this access list?

```
access-list 1 permit any
access-list 1 deny host 10.10.10.1
access-list 1 deny host 10.10.10.2
access-list 1 deny host 172.16.1.1
access-list 1 deny any log
```

- ○ **A.** The access list cannot end with a **deny** statement.
- ○ **B.** The access list permits the traffic before it denies any traffic.
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Examine the configuration shown here. Which statement is false?

```
no service password-encryption
!
enable secret rtYHS3TTs
!
username admin01 privilege 15 secret Cisco123
!
line vty 0 4
password ChEeEs&WiZ
login
transport input telnet
```

- ❍ **A.** Telnet users will be required to provide a password for Telnet access.
- ❍ **B.** Telnet users will be required to provide the password **ChEeEs&WiZ** for access to privileged mode.
- ❍ **C.** The account password of the admin privilege-level user is not very secure.
- ❍ **D.** New plaintext passwords will not be encrypted.

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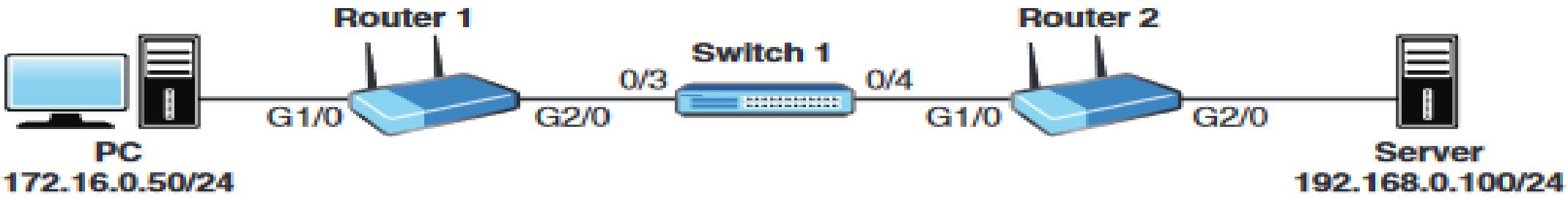
The user at the PC shown in the figure is copying a file from the server by using a program that uses a connectionless transport protocol. Which protocols on the left match up to the layers on the right regarding the encapsulation done by the PC? (Note that not all the protocols are used.)



Protocols	Layers
UDP	Application
Serial	
TFTP	Transport
ICMP	
TCP	Internet
Ethernet	
IP	Network Access
FTP	

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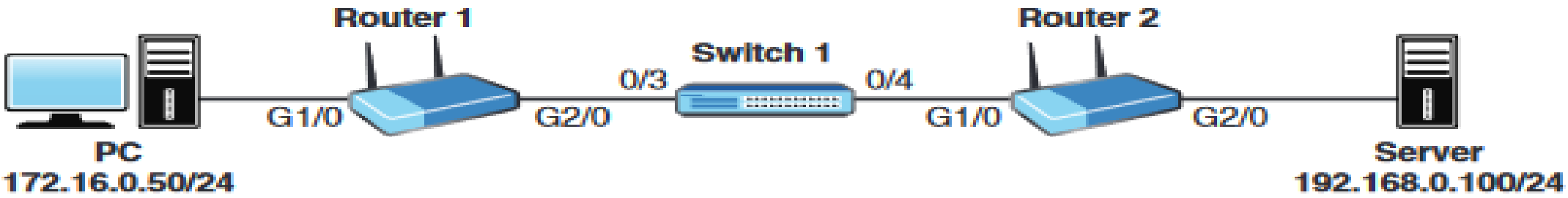

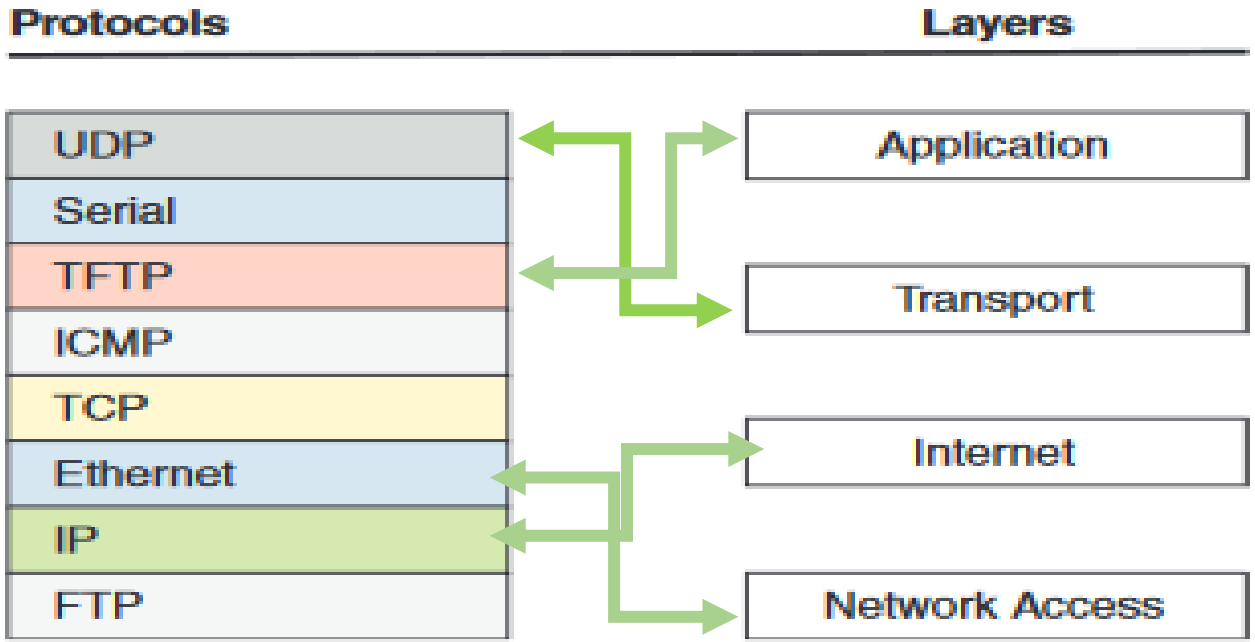

Map the layers on the left to the protocols on the right. Note that not all layers are used, and some layers may be used more than once.

Layers	TCP/IP Protocols
Application	
Presentation	CDP
Session	TCP
Transport	PPP
Network/Internet	SMTP
Datalink	Serial
Physical	IP

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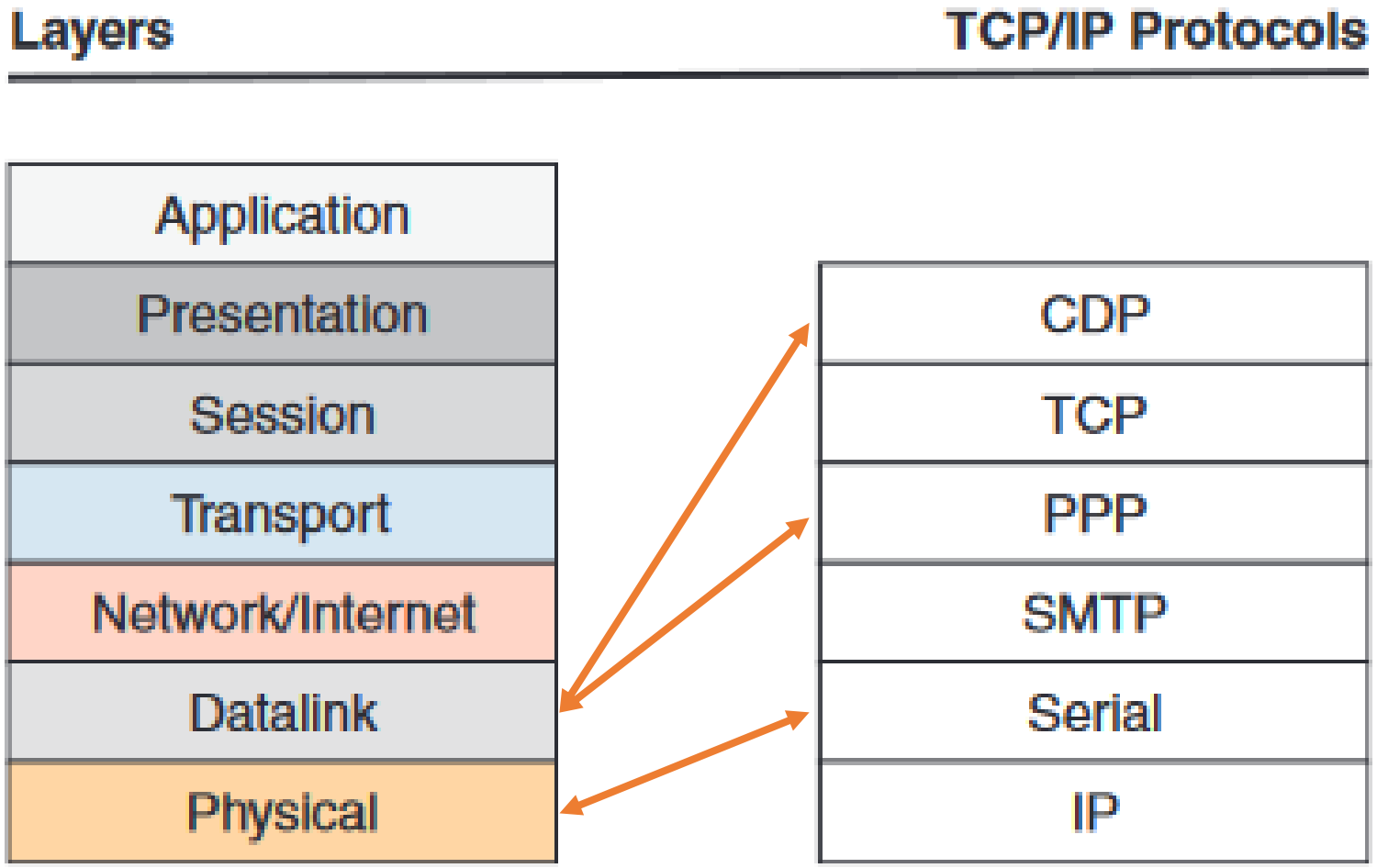

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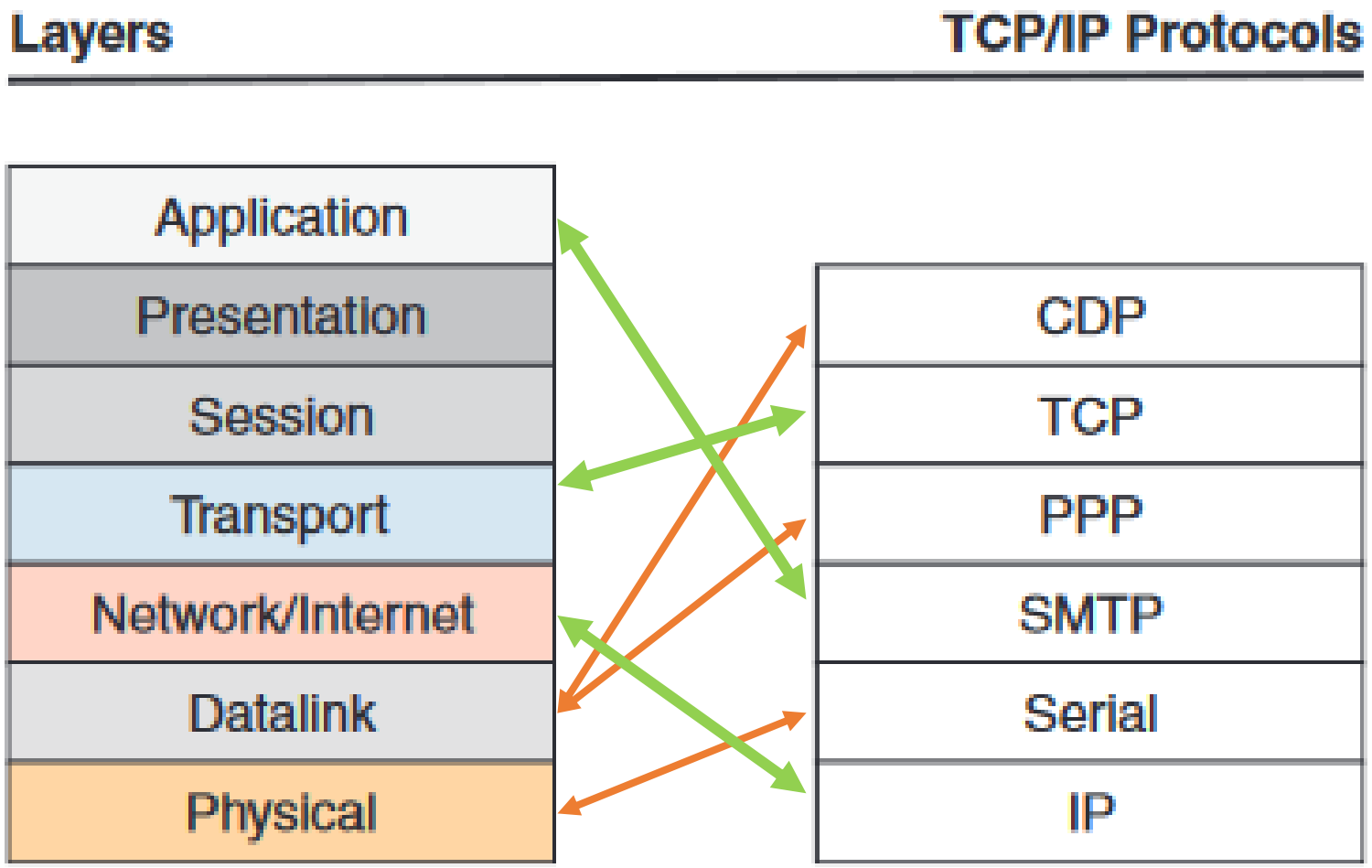
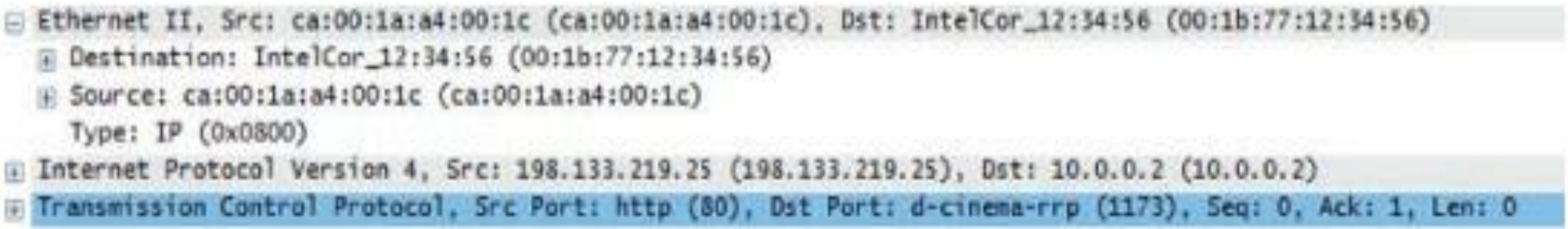


What is true regarding a network device that receives the packet shown in the protocol analyzer output that follows? (Choose two.)



- ○ **A.** A bridge would forward the packet based on the Layer 1 destination address.
- ○ **B.** A hub would forward the packet based on the Layer 2 destination address.
- ○ **C.** A switch would forward the frame based on the Layer 2 destination address.
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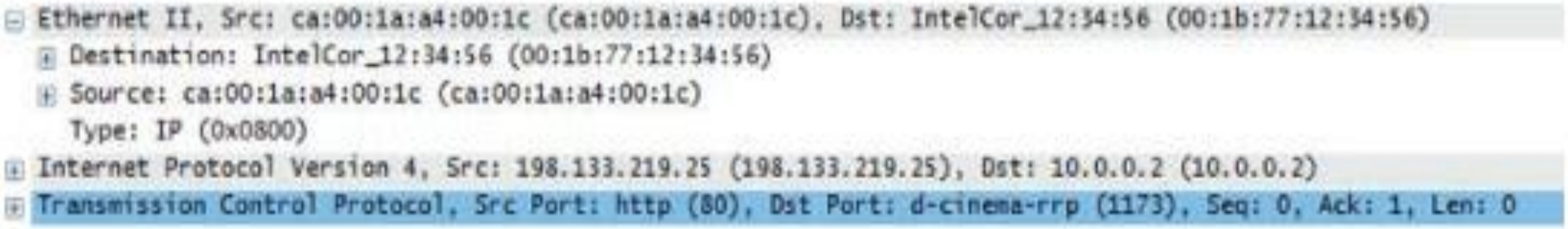

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What technology is used to allow a switch port to carry the traffic of multiple data VLANs from one device to another in a Cisco network?

- ○ **A.** VLAN hopping
- ○ **B.** Trunking
- ○ **C.** Port security
- ○ **D.** VTP

Examine the following MAC addresses on two switches:

SwitchA: c001.3412.9301

SwitchB: 0019.e728.8101

In a tiny network with only these two switches, which switch becomes the root bridge if the default STP priority values are in place?

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. Your junior administrator is examining the routing table on a Cisco router and asks you what is the meaning of the D she sees in routing table entries. What does this indicate?

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Empty Routing Table

Rt1#show ip route
Codes: L - local, C - connected, S - static, 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

Which of the following does not need to match when configuring OSPF version 2 peering?

- ○ **A.** The local process ID
- ○ **B.** The hello and dead timers
- ○ **C.** The area ID
- ○ **D.** Authentication

Examine the topology shown. Given that the IP address assigned to R2 fa1/0 is 10.2.2.2, provide a default static route on R1 that uses R2 as the default gateway.

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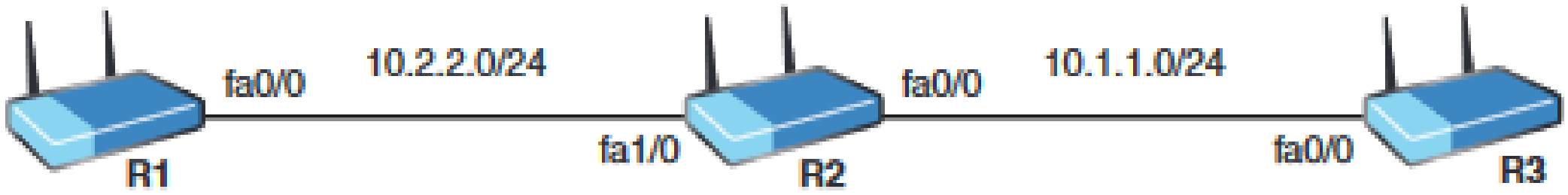

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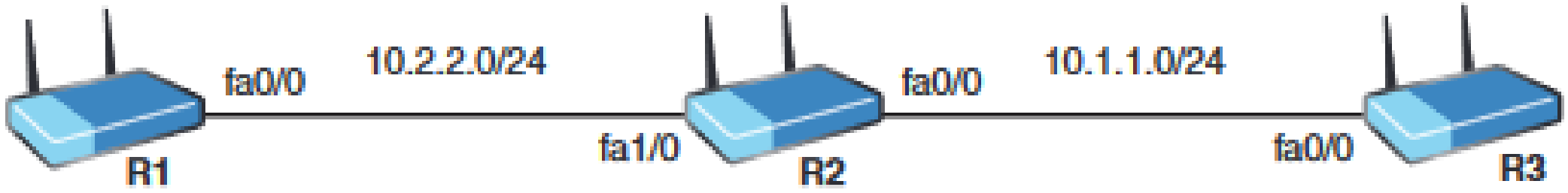

Your junior admin notes that when he just performed a ping, one of the packets failed. What is the most likely cause of the following results?

```
Router1# ping 10.255.0.126
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.255.0.126, timeout is
  2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max =
  35/72/76 ms
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- ○ **A.** Load balancing, with one of the next hops being unavailable
- ○ **B.** ARP resolution
- ○ **C.** Half-duplex operation
- ○ **D.** 10 Mbps being used instead of Fast Ethernet or Gigabit Ethernet

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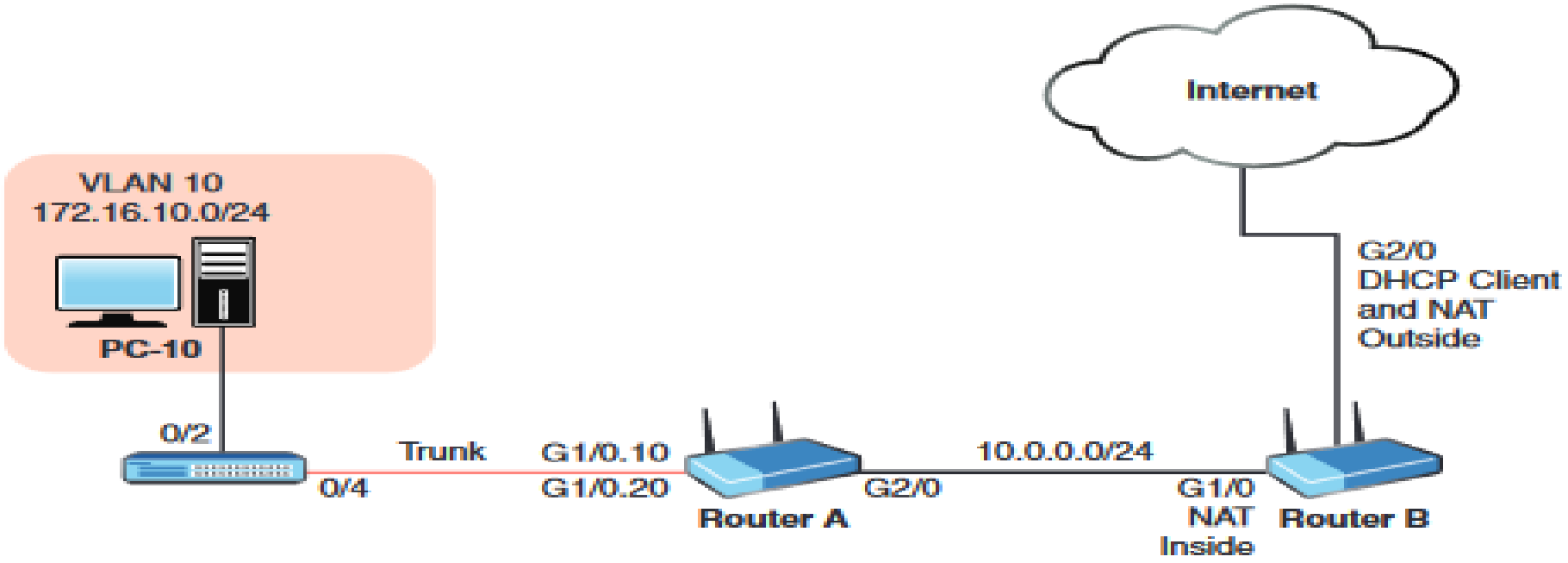
Router A is assigning IP addresses to hosts in VLAN 10, as shown in the network depiction. The user powers up PC-10 and checks https://www.reuters.com/ for news. What are the first four protocols used by PC-10 when it powers up, in order?



Protocol	Order
OSPF	1st
ARP	
HTTP	2nd
DNS	
DHCP	3rd
ICMP	4th

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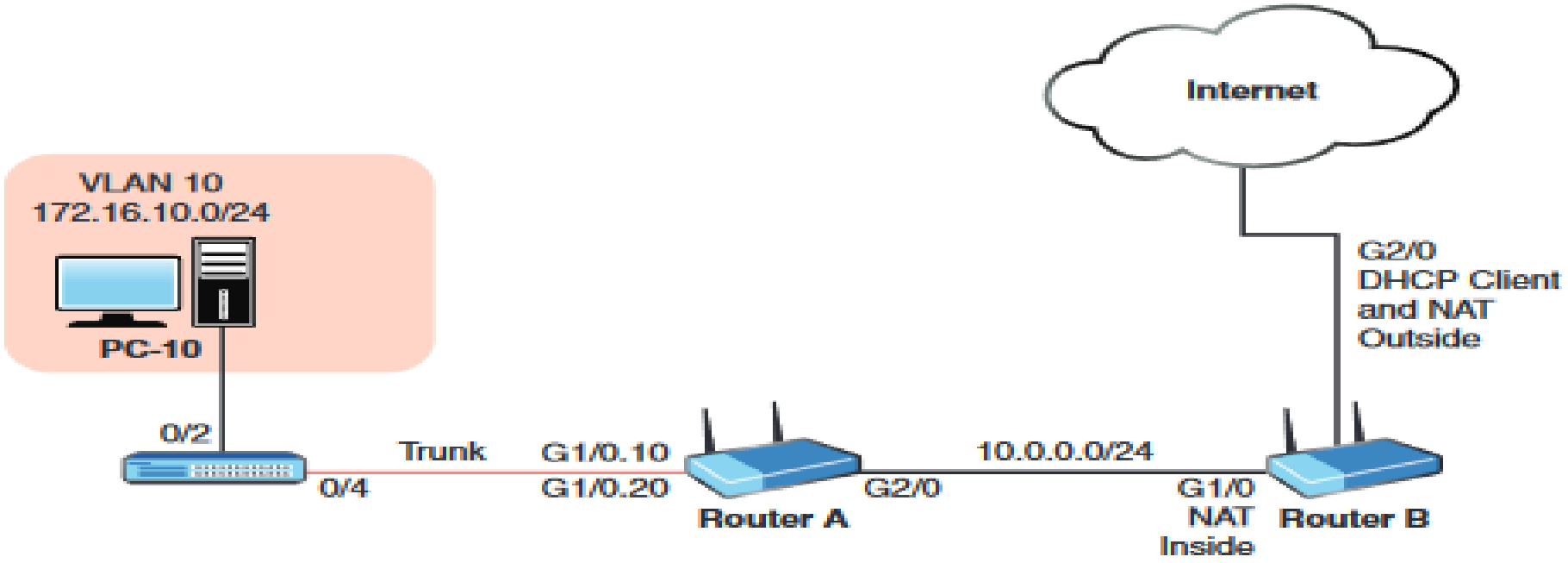

Protocol	Order
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ARP (2)	
HTTP (4)	2nd
DNS (3)	3rd
DHCP (1)	
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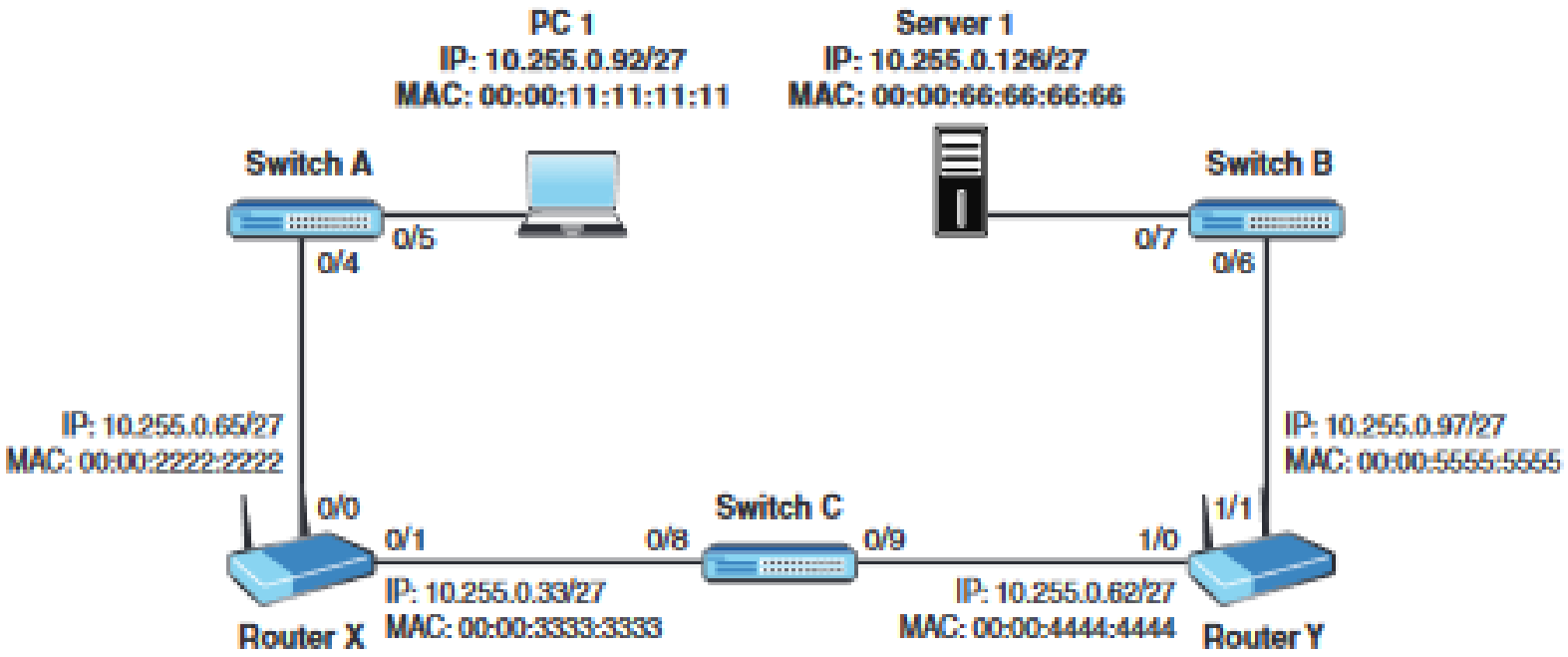
Examine the topology shown here. PC1 is sending an HTTP packet to Server 1. What is true about this traffic as it is forwarded through Switch C? (Choose three.)



- ○ **A.** The source physical address will be 0000.3333.3333.
- ○ **B.** The source Layer 2 address will be 00:00:11:11:11:11.
- ○ **C.** The source address will be 10.255.0.92.
- ○ **D.** The destination physical address will be 00:00:66:66:66:66.
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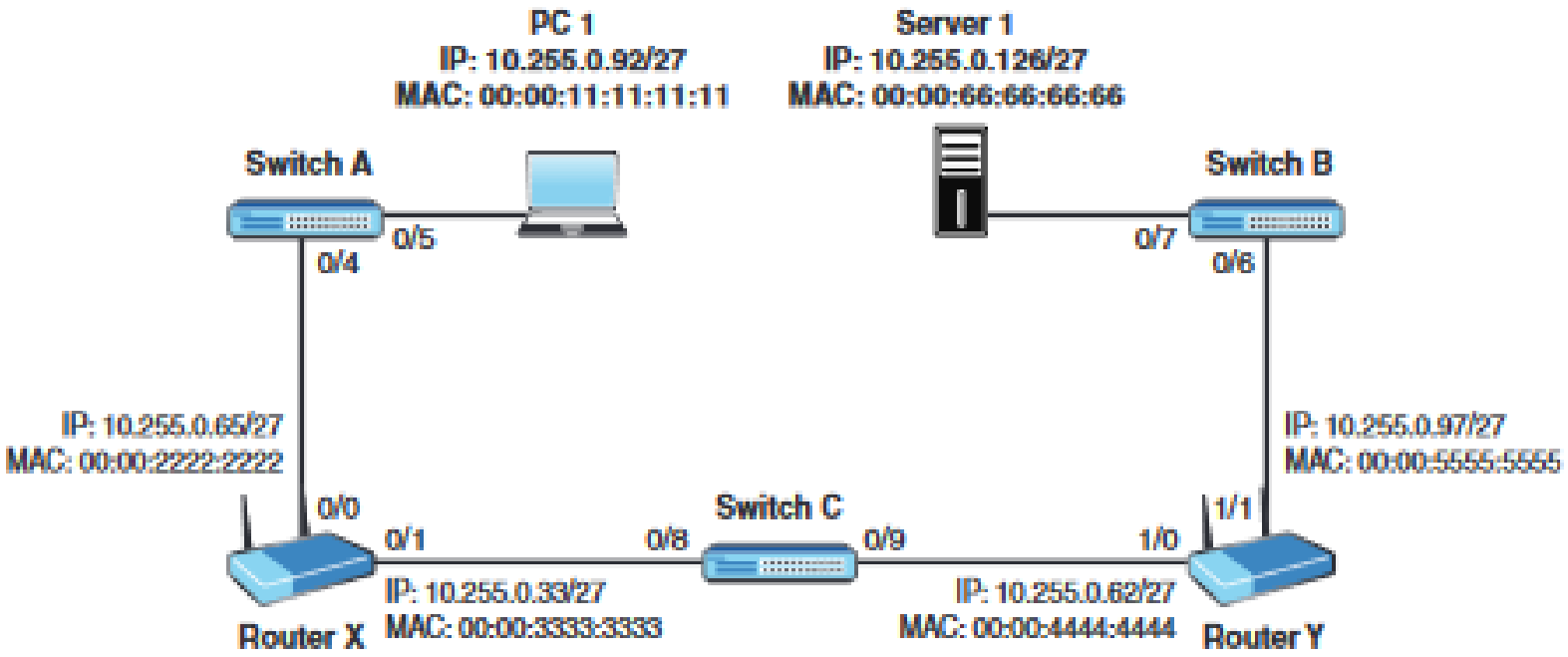

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