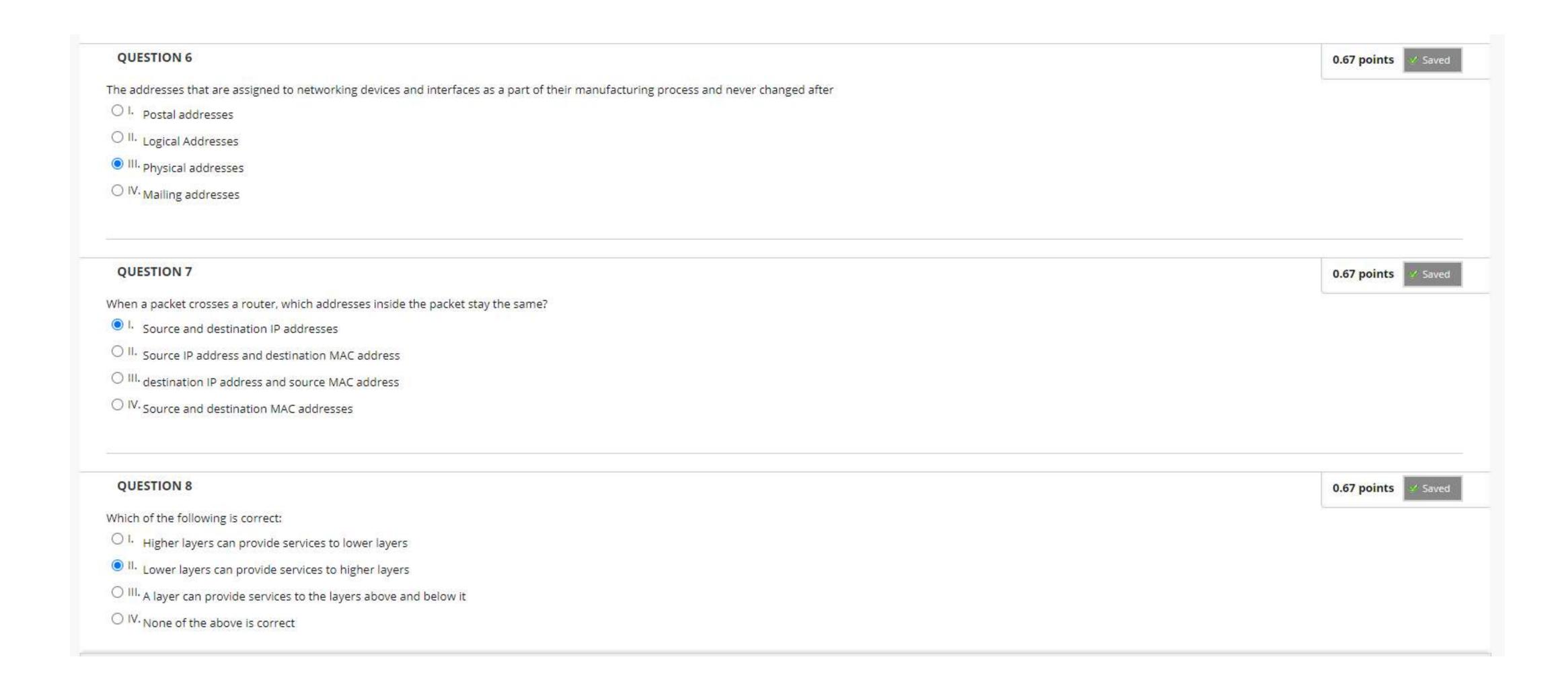
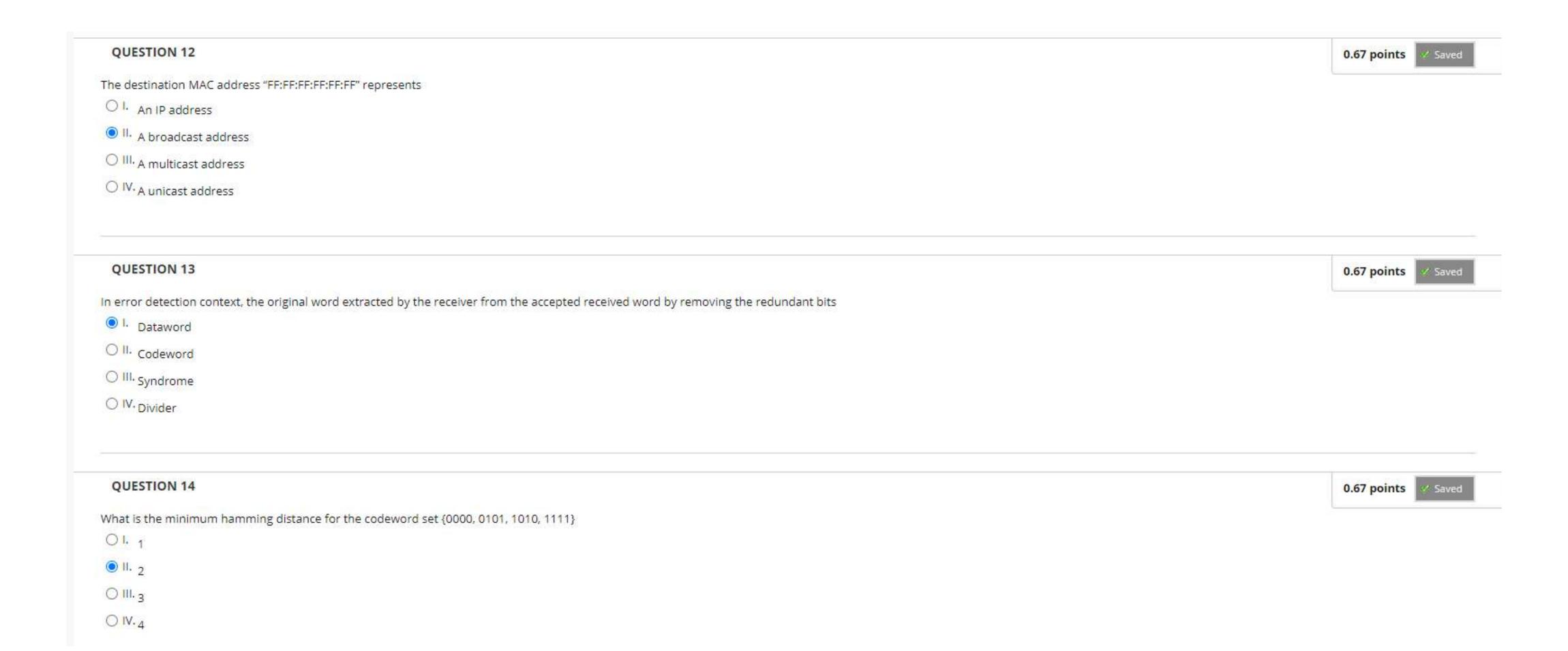


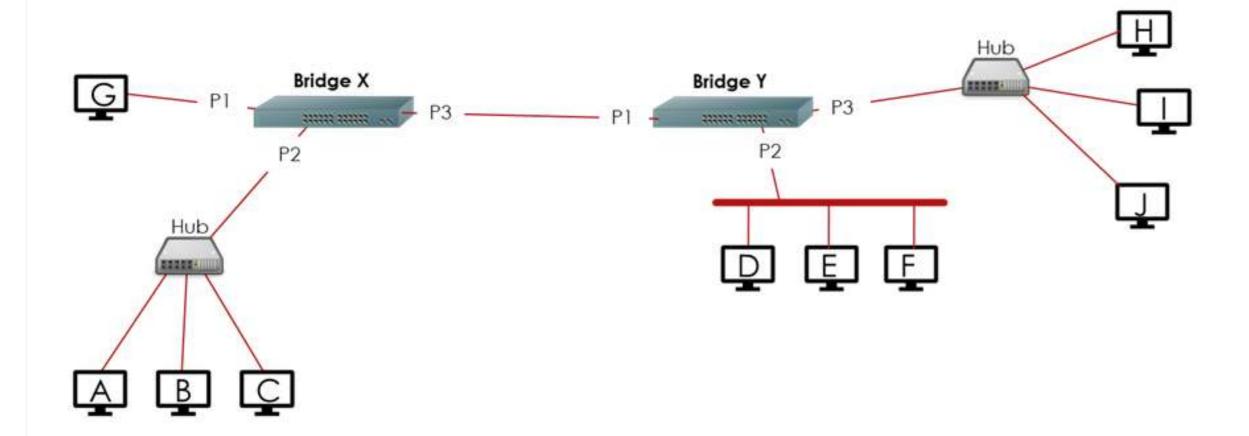
In the switched network represented by the figure above. If host G sends a frame to host P, which of the following will see the frame beside P? (Assume that all switches have already learned the addresses of all hosts in the network)

- O I. Host D
- O III. Both hosts mentioned in the previous choices
- O IV. None of the choices are correct



QUESTION 9	0.67 points Saved
hich of the following network nodes typically implement application layer protocols such as HTTP?	
O I. Routers	
○ II. <sub>Hubs</sub>	
● III. Hosts	
O IV. Switches / bridges	
QUESTION 10	0.67 points V Saved
1. A 1.5 Gbps link between a video server and a client is established. If the distance between the client and the server is 500 Kilometer and if receiving a video file has a latency of 1 second. Find the size of the video file (assume that the speed of light is 2.8*10^8 m/s and no queuing delay. Note: 1 Kilometer = 10^3 meter)	
O I. 6 Gigabit	
○ II. <sub>4.5 Gigabit</sub>	
● III. 1.5 Gigabit	
O IV. 3 Gigabit	
QUESTION 11	0.67 points × Save
low does an ethernet node discover the beginning of a frame from the received signal in the wire?	
low does an ethernet node discover the beginning of a frame from the received signal in the wire?  Using destination MAC address	
O I. Using destination MAC address	

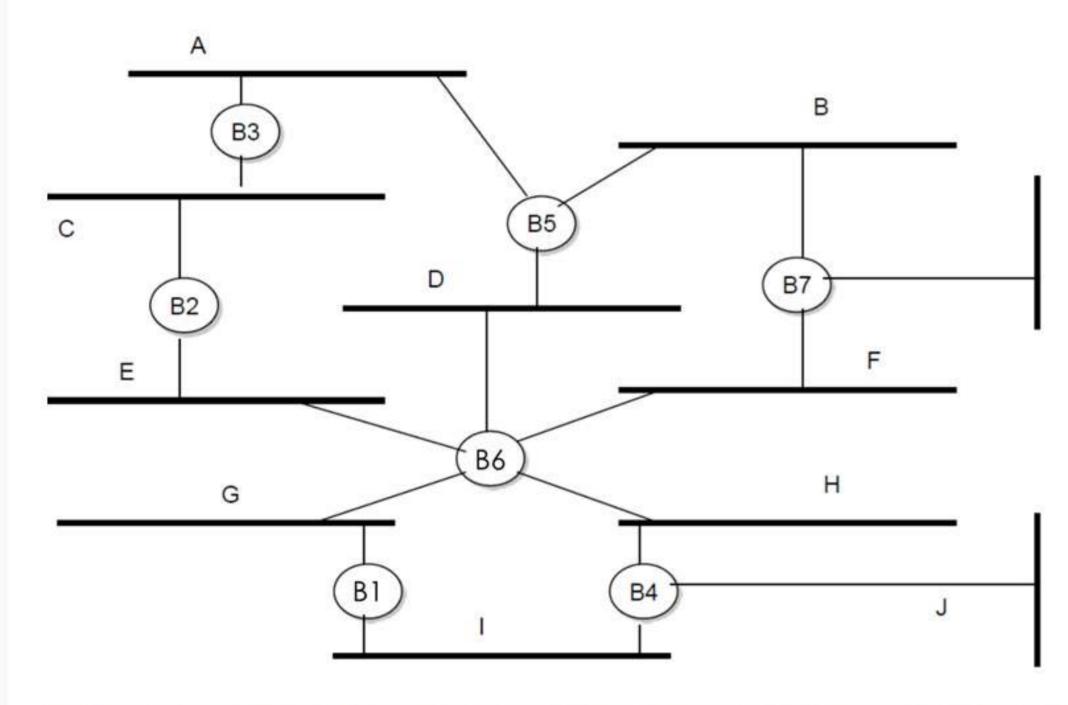




If Bridge X and Bridge Y are used to link the four LAN segments as shown in the picture. If both bridges initially have no entries in their forwarding table, what would the forwarding table of Bridge Y look like after the following frames are sent in sequence:

<Src=D, Dest=C> then <Src=A, Dest=G> then <Src=G, Dest=C>

- O I. Bridge Y forwarding table: <Host D, Port 2>
- O II. Bridge Y forwarding table: <Host G, Port 1>, <Host D, Port 2>
- Bridge Y forwarding table: <Host G, Port 1>, <Host D, Port 2>, <Host A, Port 1>
- O IV. Bridge Y forwarding table: <Host G, Port 1>, <Host D, Port 2>, <Host A, Port 1>, <Host C, Port 3>



In the figure above, which bridge is considered the designated bridge for LAN A after the spanning tree protocol finishes building the tree?

- I. <sub>B1</sub>
- II. B6
- III. B5
- IV. B3

0.67 points

Saved

## **QUESTION 24**

In the classful IP addressing scheme, which of the following is true

- I. There are more Class A networks than Class C
- II. The number of bits in the Network ID part of Class A addresses is more than the network ID bits in Class C addresses
- O III. An organization that has one Class A address has more host addresses than another organization that has one Class C address
- O IV. None of the above are true

0.67 points



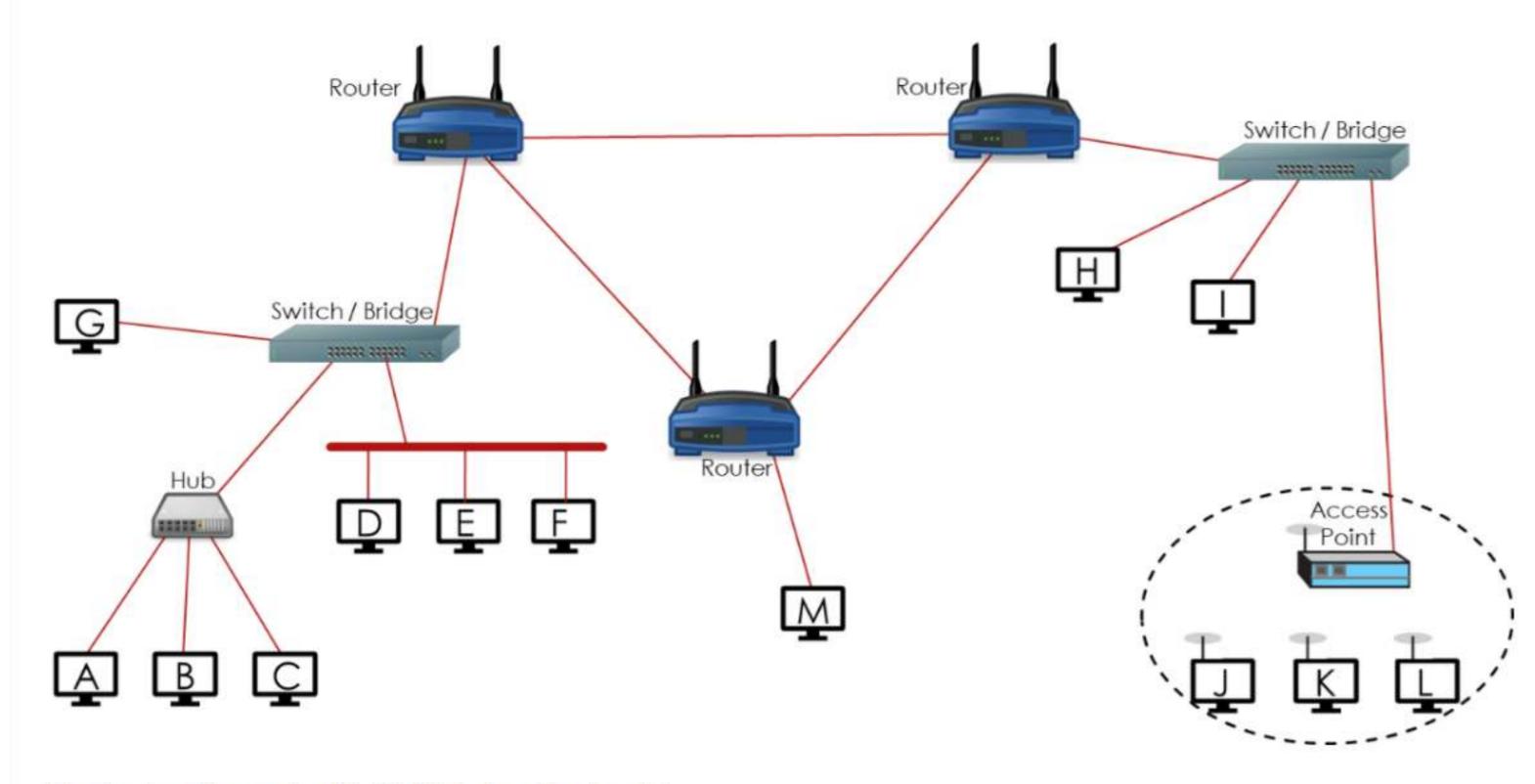
How many bits belong to the network ID part of the following CIDR address "198.150.1.0/24"?

○ I. <sub>198</sub>

○ II. <sub>1</sub>

○ III. <sub>150</sub>

O IV. 195.82.207.0/30



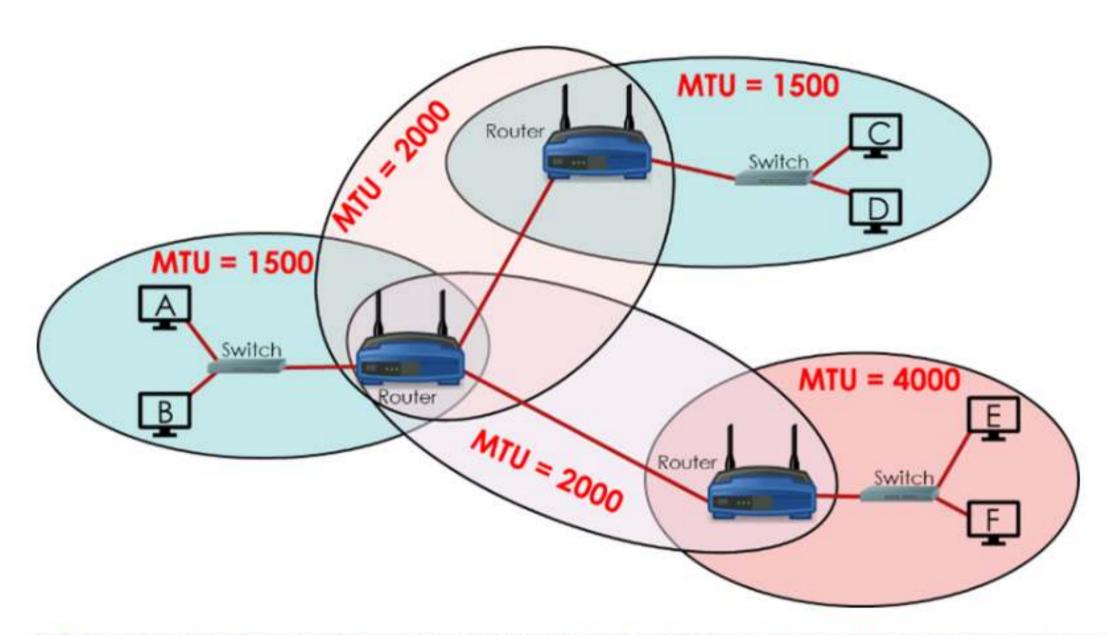
If Host H sends an ARP query packet, which of the following hosts will see the packet?

01.1

O 11. j

O III. K

IV. All of the hosts above



In the figure above, if Host B used the MTU discovery protocol to find the minimum MTU of the path to Host E, How many times an ICMP message would have been sent to Host B from the routers before Host B's message reached Host E.

- O II. 1
- O III. 2
- O IV. 3