Q23 Results for Mualla Argin
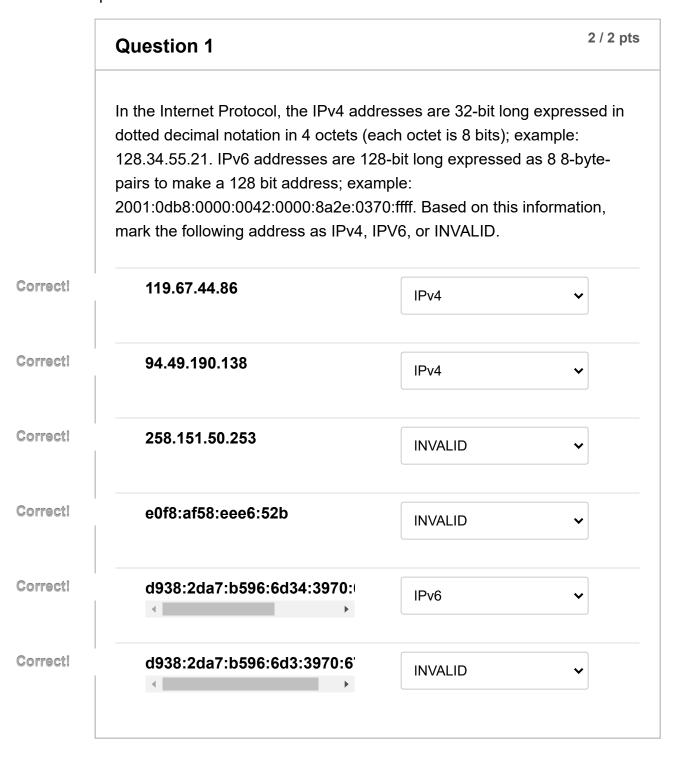
Score for this attempt: **6** out of 6

Submitted Apr 4 at 11:11pm

This attempt took 2 minutes.

		2 / 2 pts
Question 1		

In the Internet Protocol, the IPv4 addresses are 32-bit long expressed in dotted decimal notation in 4 octets (each octet is 8 bits); example: 128.34.55.21. IPv6 addresses are 128-bit long expressed as 8 8-byte-pairs to make a 128 bit address; example: 2001:0db8:0000:0042:0000:8a2e:0370:ffff. Based on this information, mark the following address as IPv4, IPV6, or INVALID.

Correct!	**119.67.44.86**	IPv4 ⌄
Correct!	**94.49.190.138**	IPv4 ⌄
Correct!	**258.151.50.253**	INVALID ⌄
Correct!	**e0f8:af58:eee6:52b**	INVALID ⌄
Correct!	**d938:2da7:b596:6d34:3970:(**	IPv6 ⌄
Correct!	**d938:2da7:b596:6d3:3970:6'**	INVALID ⌄

		1 / 1 pts
Question 2		

Network administrators can break IP addresses into further subnetworks (subnets) as needed.
Starting with this IPv4 address: **128.194.166.90**

That could break down into 3 parts:

128.194   166   90

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TAMU   CSE   LAB

The first two octets identify the entire network for TAMU, the third octet identifies the CSE department's network, and the fourth octet identifies an individual lab computer in CSE department's network. Adding further levels to the address hierarchy can improve the efficiency of routing within the network. According to the breakdown above, which of these IP addresses identify computing devices in TAMU's CSE department's network?

○ 128.194.166.258

Correct!   ⦿ 128.194.166.55

○ 128.155.166.90

○ 128.194.167.90
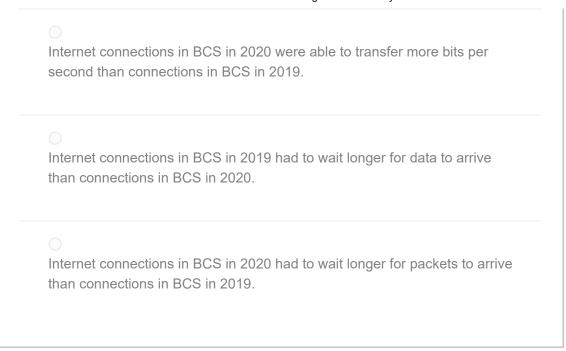

Question 3   1 / 1 pts

In 2019, Suddenlink in BCS had an average bandwidth per Internet connection of 15.10 Mb/s. In 2020, their average bandwidth was 11 Mb/s. Which of the following statement is true based on the above?

Correct!   ⦿

Internet connections in BCS in 2019 were able to transfer more bits per second than connections in BCS in 2020.

○

Internet connections in BCS in 2020 were able to transfer more bits per second than connections in BCS in 2019.

○

Internet connections in BCS in 2019 had to wait longer for data to arrive than connections in BCS in 2020.

○

Internet connections in BCS in 2020 had to wait longer for packets to arrive than connections in BCS in 2019.

Question 4

1 / 1 pts

Which of these situations describes a computer network?

○

A programmer runs a program using parallel computing on their multi-CPU computer. Each CPU processes a different part of the program and stores the final results in shared memory.

○

A plant biologist inserts a moisture sensor into a the soil of a potted plant. The moisture sensor records the moisture every minute and saves it onto an SD card for storage.

Correct!

◉

A company gives every employee a desktop computer and connects each of the computers to each other using wires, so that they can quickly transfer files and messages.

○

A smartphone store displays 20 different smartphones for shoppers to try out. All the smartphones are on a long table and plugged into a single power strip.

Question 5   1 / 1 pts

In what situations is the Internet Protocol (IP) used?

○

It is used when a computing device is connected to other Internet-connected devices using a wired connection, but not when using a wireless connection.

○

It is used any time that two computing devices send data to each other in a computer network.

○

It is used when two computing devices are transferring data over the Internet on a low bandwidth network connection, but not when transferring over a high bandwidth connection.

Correct!

◉

It is used every time that two computing devices send data to each other over the Internet.

Quiz Score: **6** out of 6