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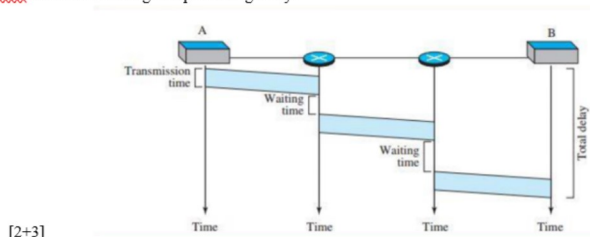
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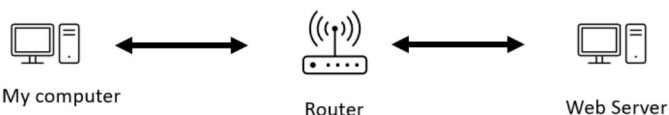
Question: 5. Identify the type of switching network in the below picture a...

Ans them all

5. Identify the type of switching network in the below picture and calculate the total delay if Transmission time =  $BD = 90$  milliseconds, propagation time =  $GH/10 = 2.2$  milliseconds and Waiting time =  $AC/20 = 0.7$  milliseconds for each switch. Ignore processing delay.



6. Draw the data link layer frame showing all the Source and Destination values in the headers of different layers during the following steps of the process of viewing a secure web page using TCP/IP model: [5]



- Computer -> Router 1
- Router 1 -> Web server
- Web server -> Router 1
- Router 1 -> Computer

Assume  $CDEF = 4089$  as the port opened by the browser in the computer, default HTTPS port for the web server, and use randomly generated IP and MAC addresses (check out [this link](#) for IP and [this link](#) for MAC). You can assume the computer and server are in the same network.

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given: transmission delay =  $T_D = 90 \text{ msec}$ propagation delay =  $AH/10 = 2.2 \text{ msec}$ waiting time =  $AC/20 = 0.7 \text{ msec}$ transmission delay between A to  $S_1$   
=  $90 \text{ msec}$ transmission delay between  $S_1$  to  $S_2$   
=  $90 \text{ msec}$ transmission delay between  $S_2$  to B  
=  $90 \text{ msec}$ total transmission delay =  $(90 + 90 + 90) \text{ msec}$   
=  $270 \text{ msec}$ propagation delay between A to  $S_1$   
=  $2.2 \text{ msec} \times 10$ propagation delay between  $S_1$  to  $S_2$   
=  $2.2 \text{ msec} \times 10$ propagation delay between  $S_2$  to B  
=  $2.2 \text{ msec} \times 10$ total propagation delay =  $(2.2 + 2.2 + 2.2) \times 10 \text{ msec}$   
=  $66 \text{ msec}$ waiting time A to  $S_1$  =  $0.7 \text{ msec} \times 20$ waiting time A to  $S_2$  =  $0.7 \text{ msec} \times 20$ total waiting time =  $(0.7 + 0.7) \times 20 \text{ msec}$   
=  $1.4 \times 20 = 28 \text{ msec}$ So, the total delay = Total TD + Total PD  
+ Total WT=  $270 + 66 + 28 = 364 \text{ ms}$ Scanned with  
CamScanner

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