CSE421 Assignment 03 [MSMA | 2024 Fall]





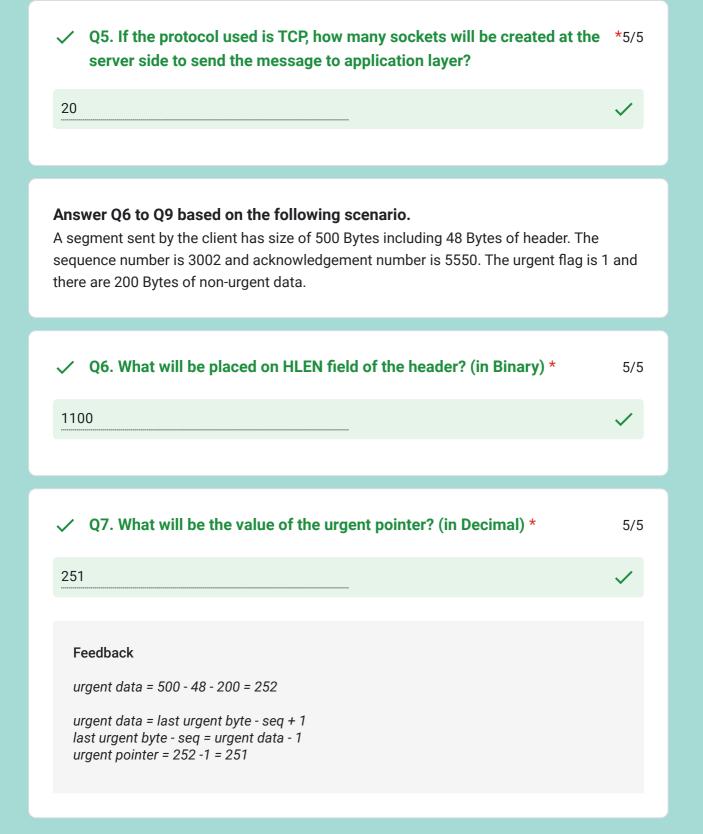
Answer all the questions in this form. PDF submission is optional for the math problems/short answer questions. You can submit only once even if you submit by mistake. Make sure that your answers are put correctly by refreshing the page. Deadline: November 19, 2024 (Tuesday) 11:59:59pm

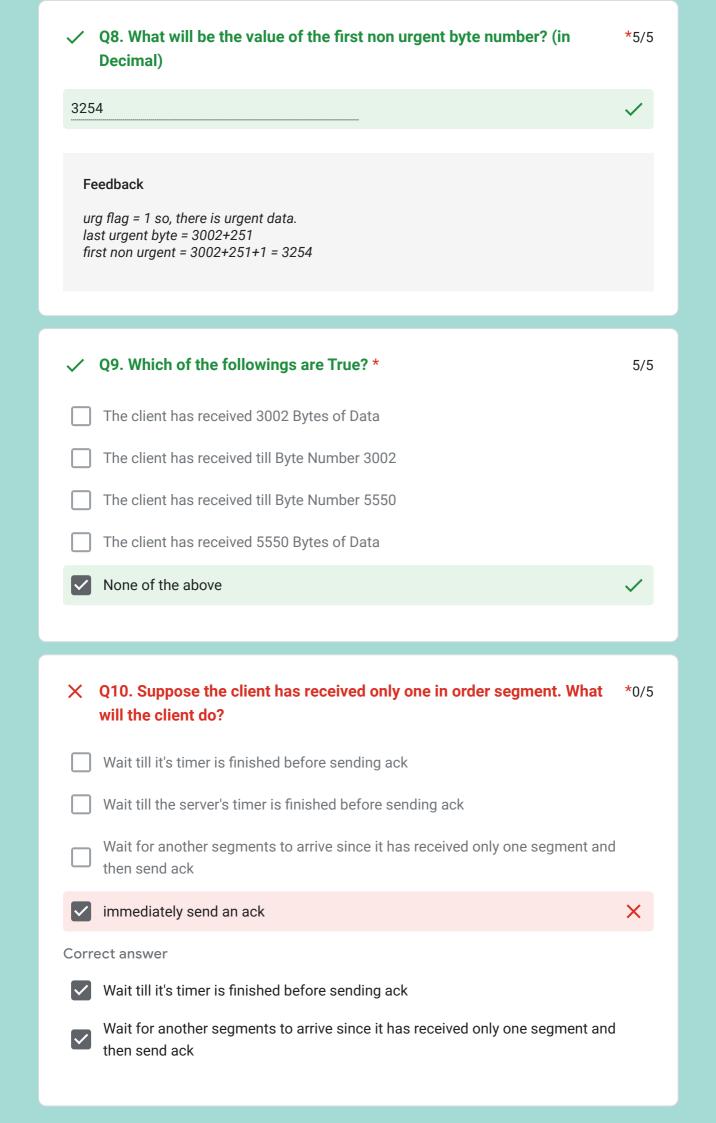
✓ Q1. Which of the followings are true? *	5/5
TCP is faster than UDP as we can see websites get loaded within seconds	
DNS uses both TCP and UDP as transport layer protocol	✓
Both TCP and UDP initiates the connection through 3 way handshaking	
Reassembling the segments are done by both TCP and UDP	✓
None of the above	

Answer Q2 to Q3 based on the following scenario.

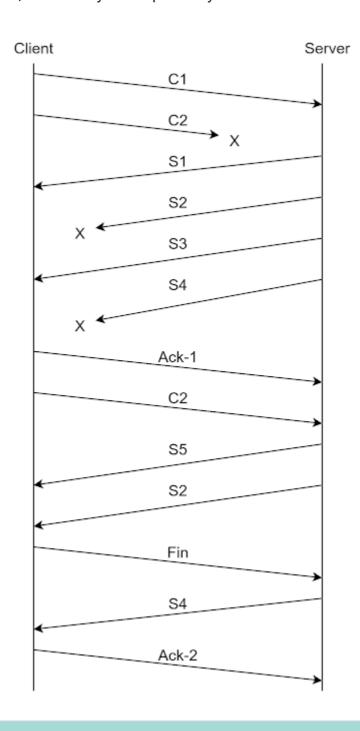
I have opened two tabs in my browser and requested to visit the same webpage. Then the server responded with the webpage.

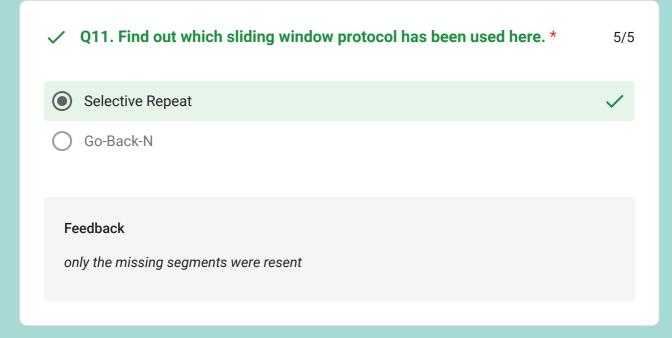
	Q2. Source port address of the server's response can be from (Select all possible answers evaluating different scenarios)	*5/5	
	Dynamic		
	Registered	✓	
	Well known	✓	
✓	1024 to 49151	✓	
	49152 to 65535		
	0 to 1023	✓	
~ (Q3. Destination port address of the server's response can be from *	5/5	
	Dynamic	✓	
	Registered		
	Well known		
	1024 to 49151		
	49152 to 65535	✓	
	0 to 1023		
There PC1 o	Answer Q4 to Q5 based on the following scenario. There are 4 computers that are requesting to a server's process. Among these computers, PC1 opens 4 connection, PC2 opens 9 connections, PC3 opens 5 connections and PC4 opens 2 connections with the server.		
	Q4. If the protocol used is UDP, how many sockets will be created at the server side to send the message to application layer?	* 5/5	
1		✓	

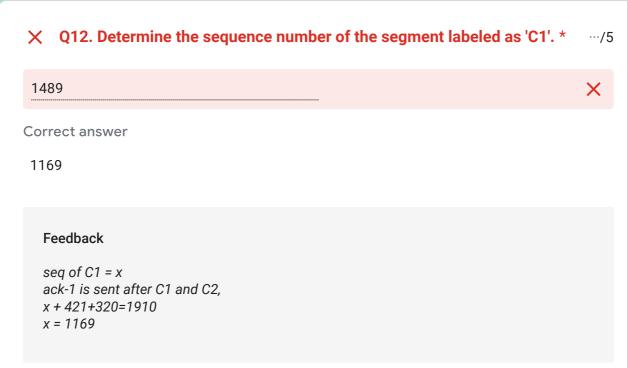


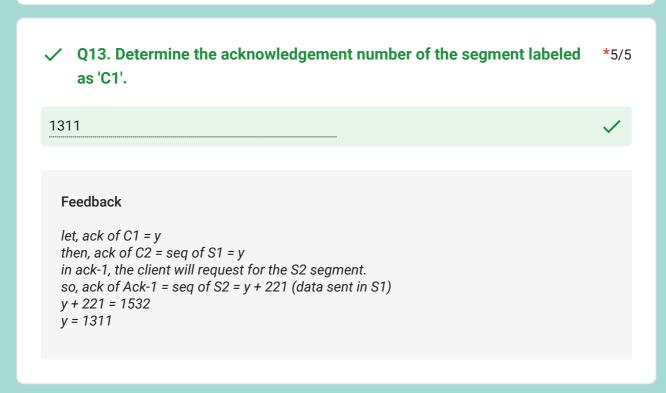


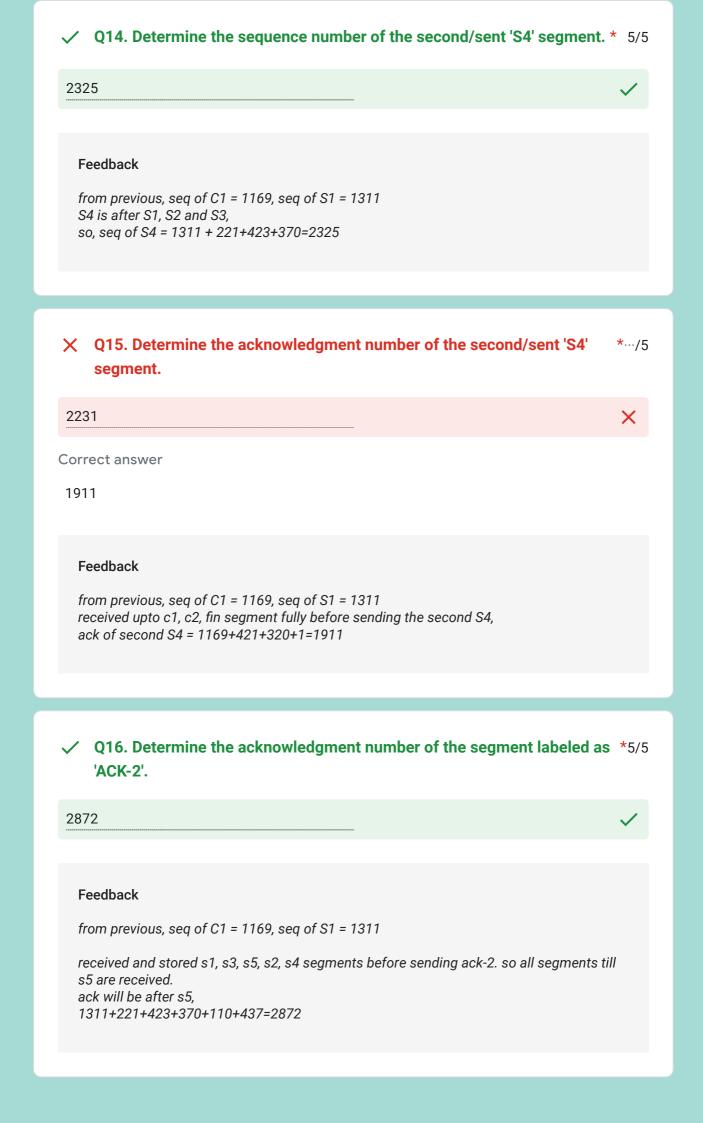
At a given moment, the client has sent the **Ack-1** segment with the sequence number **1910** and the acknowledgement number **1532**. The RWND of the client is **8000 bytes** and the RWND of the server is **10000 bytes** before the **C1** segment got transmitted. The size of the segments **C1**, **C2**, **S1**, **S2**, **S3**, **S4**, and **S5** are **421**, **320**, **221**, **423**, **370**, **110**, and **437** bytes respectively.



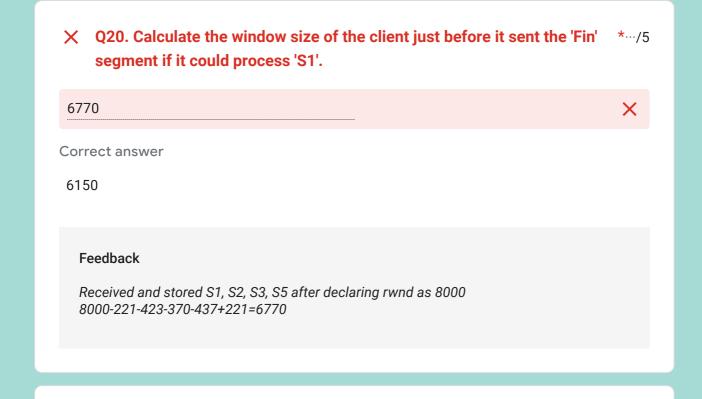












[This is optional] Submit your workings through a pdf file. Naming Format: ID_Name

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