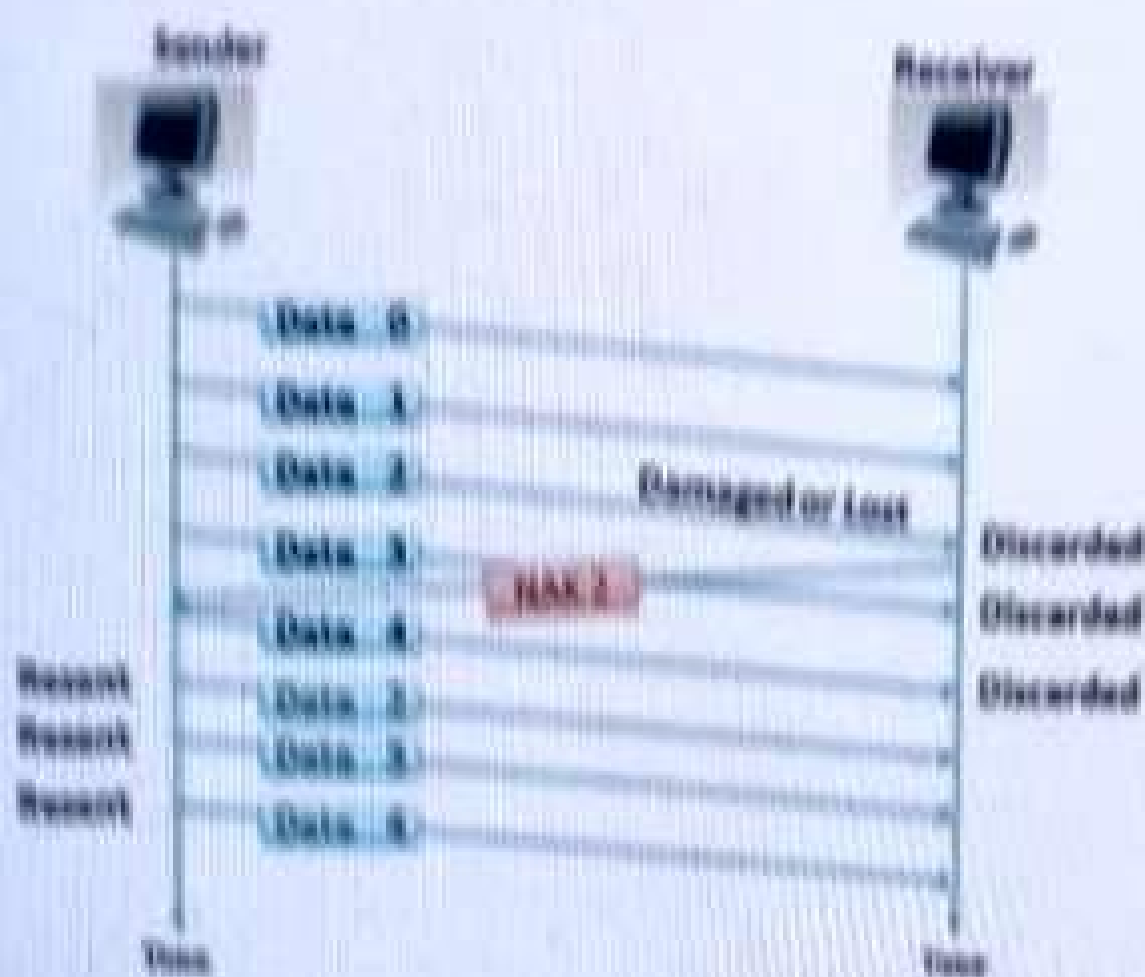


upload answer sheets

Consider the given figure. Identify and explain the technique which helps the Receiver to inform the Sender of any frames lost or damaged in transmission. Also, highlight the difference between both the techniques.



Section [a.] 1 of 3

Question : 1 of 1

Marks for this Question : 10

100%

General Instructions

Test Time left: 55:23

Upload answer sheets

Sender (S) needs to send a message consisting of 12 packets to Receiver (R) using a sliding window (window size 3) and Go Back N-ARQ strategy. All packets are ready and immediately available for transmission. If every 5th packet that S transmits gets lost (but no ACKs from R ever get lost), then what is the number of packets that S will transmit for sending the message to R?

Once you upload files from your second device, click on [Sync](#) to check your submission.

Camera

Answer

This is the beginning of the test!

Clear Response

Next >

Section [Module #3] 3 of 3

Question : 1 of 1

Marks for this Question : 10



100%

General Instructions



Upload answer sheets

Time taken: 00:00

Design a hamming coding scheme for handling 3 errors. Explain and derive the required parameters for the coding scheme. (8 Marks)  
Compute the number of codes that will be useless in this coding scheme. (2 Marks)

Once you upload files from your second device, click on [Sync](#) to check your submission

 Camera

Finish

Clear Response

This is the end of the test!

Next

Back

Section [a] 3 of 3

Question : 1 of 1

Marks for this Question : 10

100%

General instructions

Test time left: 28:38

Upload answer sheets

Discuss the consequences of any single connection failure in each of the following three networks

- a. Twenty devices arranged in a star topology
- b. Twenty devices arranged in a tree topology
- c. Twenty devices arranged in a bus topology

Also, calculate the total number of connections in each network.

Once you upload files from your second device, click on 

Sync

 to check your submission

Camera

Submit

Clear Response

This is the end of the test!

Previous

Next

A 1 Mbps satellite link connects two Towers. The altitude of the link is 36504 km and speed of the signal is light speed. Find out the packet size for a channel utilization of 50% for a satellite link using Go Back 254 sliding window protocol?

Once you upload files from your second device, click on [Sync](#) to check your submission



Submit

Clear Response

Done

Next

Upload answer sheets

Test time left: 50:15

Compute the latency for a data packet of size 990 bytes. The network has bandwidth of 128 Mbps, the distance is 1500 k.m. and there are four nodes before destination. Each node takes 60 microseconds for processing and forwarding a packet.

Identify the components of latency and respective delays. Clearly state and assume value for any data required for the computation.

A copper cable  $2.3 \times 10^8$  m/s

An optical fiber  $2.0 \times 10^8$  m/s

Once you upload files from your second device, click on [Sync](#) to check your submission

 Camera

Cancel

Clear Response

« Prev

Next »

Section [Module #1] 1 of 3

Question : 1 of 1

Marks for this Question : 10



100%

Upload answer sheets

Discuss pro and cons of tree and bus topology. Use your discussion to recommend the use of a topology for a LAN in a university campus.

Once you upload files from your second device, click on [Sync](#) to check your submission

 Camera

Cancel

This is the beginning of the test!

Clear Response