CS 348: NETWORK SWITCHING AND ROUTING.

ASSIGNMENT 01.

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Solution

In this problem a window size must be change at receiver side, Therefore at sender side the window size is 3 and at receiver side preferred to be extended to window size of 4, a sequence number remain the same, When a sender send frames at window size of 3 and all ACKs are lost and timed is out. The sender will retransmit frames again starting from frame 0, but when receiver receive frame 0 will correctly discard it because expect to get frame 3 and not frame 0

Sender receiver

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 1 | 2 | 3 | 0 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 1 | 2 | 3 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 1 | 2 | 3 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 1 | 2 | 3 | 0 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 1 | 2 | 3 | 0 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 1 | 2 | 3 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 1 | 2 | 3 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 1 | 2 | 3 | 0 |

Time-out

Correctly discarded frame 0

Window size>2m-1