Reliable Transport Protocol

CSE 335: COMPUTER NETWORKS
COURSE PROJECT

Mohamed El Ghamry - 15P6019

Mostafa Hazem – 15P6017

SR1-CESS

RELIABLE TRANSPORT PROTOCOL (FROM J.F. KUROSE)

INTRODUCTION

Project is divided into 2 parts, Alternating-Bit-Protocol version and the second part for the Go-Back-N version.

For further info, please check out the README.md file which includes everything about the project including an overview, introduction, guidelines, and usage.

DESCRIPTION OF FUNCTIONS

A_output(message), where message is a structure of type msg, containing data to be sent to the B-side. This routine will be called whenever the upper layer at the sending side (A) has a message to send. It is the job of your protocol to ensure that the data in such a message is delivered in-order, and correctly, to the receiving side upper layer.

A_input(packet), where packet is a structure of type pkt. This routine will be called whenever a packet sent from the B-side (i.e., as a result of a tolayer3() being done by a B-side procedure) arrives at the A-side. packet is the (possibly corrupted) packet sent from the B-side.

A_timerinterrupt() This routine will be called when A's timer expires (thus generating a timer interrupt). You'll probably want to use this routine to control the retransmission of packets. See starttimer() and stoptimer() below for how the timer is started and stopped.

A_init() This routine will be called once, before any of your other A-side routines are called. It can be used to do any required initialization.

B_input(packet),where packet is a structure of type pkt. This routine will be called whenever a packet sent from the A-side (i.e., as a result of a tolayer3() being done by a A-side procedure) arrives at the B-side. packet is the (possibly corrupted) packet sent from the A-side.

B_init() This routine will be called once, before any of your other B-side routines are called. It can be used to do any required initialization.

OUTPUT

ALTERNATING BIT PROTOCOL

A)	No loss and no error scenario to demonstrate that your code works under no error case
	λ ./a.exe 10 0 0 5 0

	----- Stop and Wait Network Simulator Version 1.1 --------
	the number of messages to simulate: 10
	packet loss probability: 0.000000
	packet corruption probability: 0.000000
	average time between messages from sender's layer5: 5.000000
	TRACE: 0
	A_output: send packet: aaaaaaaaaaaaaaaaaaaa
	B_input: recv message: aaaaaaaaaaaaaaaaaaaa
	B_input: send ACK.
	A_output: not yet acked. drop the message: bbbbbbbbbbbbbbbbbbbb
	A_input: acked.
	A_output: send packet: cccccccccccccccccccc
	B_input: recv message: cccccccccccccccccccc
	B_input: send ACK.
	A_output: not yet acked. drop the message: dddddddddddddddddddd
	A_output: not yet acked. drop the message: eeeeeeeeeeeeeeeeeeee
	A_input: acked.
	A_output: send packet: ffffffffffffffffffff
	B_input: recv message: ffffffffffffffffffff
	B_input: send ACK.
	A_output: not yet acked. drop the message: gggggggggggggggggggg
	A_output: not yet acked. drop the message: hhhhhhhhhhhhhhhhhhhh
	A_input: acked.
	A_output: send packet: iiiiiiiiiiiiiiiiiiii
	B_input: recv message: iiiiiiiiiiiiiiiiiiii
	B_input: send ACK.
	A_output: not yet acked. drop the message: jjjjjjjjjjjjjjjjjjjj
	A_input: acked.
	Simulator terminated at time 47.591816
	after sending 10 msgs from layer5
B)	30 percent loss and no error scenario to demonstrate your code can recover the lossed packets

λ ./a.exe 50 0.3 0 10 0

----- Stop and Wait Network Simulator Version 1.1 --------

the number of messages to simulate: 50

packet loss probability: 0.300000

packet corruption probability: 0.000000

average time between messages from sender's layer5: 10.000000

TRACE: 0

 A_output: send packet: aaaaaaaaaaaaaaaaaaa

 B_input: recv message: aaaaaaaaaaaaaaaaaaa

 B_input: send ACK.

 A_input: acked.

 A_output: send packet: bbbbbbbbbbbbbbbbbbb

 B_input: recv message: bbbbbbbbbbbbbbbbbbb

 B_input: send ACK.

 A_input: acked.

 A_output: send packet: ccccccccccccccccccc

 B_input: recv message: ccccccccccccccccccc

 B_input: send ACK.

 A_input: acked.

 A_output: send packet: ddddddddddddddddddd

 B_input: recv message: ddddddddddddddddddd

 B_input: send ACK.

 A_input: acked.

 A_output: send packet: eeeeeeeeeeeeeeeeeee

 B_input: recv message: eeeeeeeeeeeeeeeeeee

 B_input: send ACK.

 A_output: not yet acked. drop the message: fffffffffffffffffff

 A_timerinterrupt: resend last packet: eeeeeeeeeeeeeeeeeee.

 A_output: not yet acked. drop the message: ggggggggggggggggggg

 A_output: not yet acked. drop the message: hhhhhhhhhhhhhhhhhhh

 B_input: not the expected seq. send NAK.

 A_timerinterrupt: resend last packet: eeeeeeeeeeeeeeeeeee.

A_output: not yet acked. drop the message: iiiiiiiiiiiiiiiii

B_input: not the expected seq. send NAK.

A_output: not yet acked. drop the message: jjjjjjjjjjjjjjjjjjj

A_input: acked.

A_output: send packet: kkkkkkkkkkkkkkkkkkk

A_timerinterrupt: resend last packet: kkkkkkkkkkkkkkkkkkk.

A_output: not yet acked. drop the message: llllllllllllllllll

A_output: not yet acked. drop the message: mmmmmmmmmmmmmmmmmmmm

B_input: recv message: kkkkkkkkkkkkkkkkkkk

B_input: send ACK.

A_input: acked.

A_output: send packet: nnnnnnnnnnnnnnnnnnn

B_input: recv message: nnnnnnnnnnnnnnnnnnn

B_input: send ACK.

A_output: not yet acked. drop the message: oooooooooooooooooo

A_input: acked.

A_output: send packet: pppppppppppppppppppp

B_input: recv message: pppppppppppppppppppp

B_input: send ACK.

A_input: acked.

A_output: send packet: qqqqqqqqqqqqqqqqqqq

A_output: not yet acked. drop the message: rrrrrrrrrrrrrrrrrrr

A_output: not yet acked. drop the message: ssssssssssssssssssss

A_output: not yet acked. drop the message: ttttttttttttttttttt

B_input: recv message: qqqqqqqqqqqqqqqqqqq

B_input: send ACK.

A_output: not yet acked. drop the message: uuuuuuuuuuuuuuuuuuu

A_input: acked.

A_output: send packet: vvvvvvvvvvvvvvvvvvv

A_output: not yet acked. drop the message: wwwwwwwwwwwwwwwwwww

A_output: not yet acked. drop the message: xxxxxxxxxxxxxxxxxxx

A_output: not yet acked. drop the message: yyyyyyyyyyyyyyyyyyy

A_timerinterrupt: resend last packet: vvvvvvvvvvvvvvvvvvv.

A_output: not yet acked. drop the message: zzzzzzzzzzzzzzzzzzzz

A_timerinterrupt: resend last packet: vvvvvvvvvvvvvvvvvvvv.

A_output: not yet acked. drop the message: aaaaaaaaaaaaaaaaaaaa

A_timerinterrupt: resend last packet: vvvvvvvvvvvvvvvvvvvv.

A_output: not yet acked. drop the message: bbbbbbbbbbbbbbbbbbbb

B_input: recv message: vvvvvvvvvvvvvvvvvvvv

B_input: send ACK.

A_timerinterrupt: resend last packet: vvvvvvvvvvvvvvvvvvvv.

A_output: not yet acked. drop the message: cccccccccccccccccccc

B_input: not the expected seq. send NAK.

A_input: acked.

A_output: send packet: dddddddddddddddddddd

B_input: recv message: dddddddddddddddddddd

B_input: send ACK.

A_timerinterrupt: resend last packet: dddddddddddddddddddd.

B_input: not the expected seq. send NAK.

A_output: not yet acked. drop the message: eeeeeeeeeeeeeeeeeeee

A_input: acked.

A_output: send packet: ffffffffffffffffffff

A_output: not yet acked. drop the message: gggggggggggggggggggg

A_timerinterrupt: resend last packet: ffffffffffffffffffff.

A_output: not yet acked. drop the message: hhhhhhhhhhhhhhhhhhhh

A_output: not yet acked. drop the message: iiiiiiiiiiiiiiiiiiii

A_output: not yet acked. drop the message: jjjjjjjjjjjjjjjjjjjj

B_input: recv message: ffffffffffffffffffff

B_input: send ACK.

A_output: not yet acked. drop the message: kkkkkkkkkkkkkkkkkkkk

A_input: acked.

A_output: send packet: llllllllllllllllllll

A_timerinterrupt: resend last packet: llllllllllllllllllll.

A_output: not yet acked. drop the message: mmmmmmmmmmmmmmmmmmmm

B_input: recv message: llllllllllllllllllll

B_input: send ACK.

A_timerinterrupt: resend last packet: lllllllllllllllll.

A_output: not yet acked. drop the message: nnnnnnnnnnnnnnnnnnnn

B_input: not the expected seq. send NAK.

A_timerinterrupt: resend last packet: llllllllllllllllll.

B_input: not the expected seq. send NAK.

A_output: not yet acked. drop the message: oooooooooooooooooooo

A_input: acked.

A_output: send packet: pppppppppppppppppppp

B_input: recv message: pppppppppppppppppppp

B_input: send ACK.

A_timerinterrupt: resend last packet: pppppppppppppppppppp.

A_output: not yet acked. drop the message: qqqqqqqqqqqqqqqqqqqq

A_output: not yet acked. drop the message: rrrrrrrrrrrrrrrrrrrr

B_input: not the expected seq. send NAK.

A_input: acked.

A_output: send packet: ssssssssssssssssssss

B_input: recv message: ssssssssssssssssssss

B_input: send ACK.

A_input: acked.

A_output: send packet: tttttttttttttttttttt

A_output: not yet acked. drop the message: uuuuuuuuuuuuuuuuuuuu

B_input: recv message: tttttttttttttttttttt

B_input: send ACK.

A_input: acked.

A_output: send packet: vvvvvvvvvvvvvvvvvvvv

A_output: not yet acked. drop the message: wwwwwwwwwwwwwwwwwwww

A_timerinterrupt: resend last packet: vvvvvvvvvvvvvvvvvvvv.

A_output: not yet acked. drop the message: xxxxxxxxxxxxxxxxxxxx

A_timerinterrupt: resend last packet: vvvvvvvvvvvvvvvvvvvv.

A_timerinterrupt: resend last packet: vvvvvvvvvvvvvvvvvvvv.

B_input: recv message: vvvvvvvvvvvvvvvvvvvv

B_input: send ACK.

A_input: acked.

	Simulator terminated at time 507.020447
	after sending 50 msgs from layer5
C)	No loss and 30 percent corruption scenario to demonstrate your code can recover the erroneously received packets
	λ ./a.exe 10 0 0.3 10 0
	----- Stop and Wait Network Simulator Version 1.1 --------
	the number of messages to simulate: 10
	packet loss probability: 0.000000
	packet corruption probability: 0.300000
	average time between messages from sender's layer5: 10.000000
	TRACE: 0
	A_output: send packet: aaaaaaaaaaaaaaaaaaaa
	B_input: recv message: aaaaaaaaaaaaaaaaaaaa
	B_input: send ACK.
	A_input: acked.
	A_output: send packet: bbbbbbbbbbbbbbbbbbbb
	B_input: recv message: bbbbbbbbbbbbbbbbbbbb
	B_input: send ACK.
	A_input: acked.
	A_output: send packet: cccccccccccccccccccc
	B_input: recv message: cccccccccccccccccccc
	B_input: send ACK.
	A_input: acked.
	A_output: send packet: dddddddddddddddddddd
	B_input: packet corrupted. send NAK.
	A_input: not the expected ACK. drop.
	A_timerinterrupt: resend last packet: dddddddddddddddddddd.
	A_output: not yet acked. drop the message: eeeeeeeeeeeeeeeeeeee
	A_output: not yet acked. drop the message: ffffffffffffffffffff
	B_input: recv message: dddddddddddddddddddd
	B_input: send ACK.
	A_output: not yet acked. drop the message: gggggggggggggggggggg

	A_input: acked.
	A_output: send packet: hhhhhhhhhhhhhhhhhhhh
	B_input: recv message: hhhhhhhhhhhhhhhhhhhh
	B_input: send ACK.
	A_output: not yet acked. drop the message: iiiiiiiiiiiiiiiiiiii
	A_input: acked.
	A_output: send packet: jjjjjjjjjjjjjjjjjjjj
	B_input: recv message: jjjjjjjjjjjjjjjjjjjj
	B_input: send ACK.
	A_timerinterrupt: resend last packet: jjjjjjjjjjjjjjjjjjjj.
	A_input: acked.
	B_input: not the expected seq. send NAK.
	A_input: A->B only. drop.
	Simulator terminated at time 117.520515
	after sending 10 msgs from layer5

GO-BACK-N

A)	No loss and no error scenario to demonstrate that your code works under no error case
	λ ./a.exe 10 0 0 5 0
	----- Stop and Wait Network Simulator Version 1.1 --------
	the number of messages to simulate: 10
	packet loss probability: 0.000000
	packet corruption probability: 0.000000
	average time between messages from sender's layer5: 5.000000
	TRACE: 0
	A_output: bufferred packet (seq=1): aaaaaaaaaaaaaaaaaaaa
	send_window: send packet (seq=1): aaaaaaaaaaaaaaaaaaaa
	B_input: recv packet (seq=1): aaaaaaaaaaaaaaaaaaaa
	B_input: send ACK (ack=1)
	A_output: bufferred packet (seq=2): bbbbbbbbbbbbbbbbbbbb
	send_window: send packet (seq=2): bbbbbbbbbbbbbbbbbbbb

A_input: got ACK (ack=1)

Warning: attempt to start a timer that is already started

 A_input: timer + 15.000000

 B_input: recv packet (seq=2): bbbbbbbbbbbbbbbbbbbb

 B_input: send ACK (ack=2)

 A_output: bufferred packet (seq=3): cccccccccccccccccccc

 send_window: send packet (seq=3): cccccccccccccccccccc

 A_input: got ACK (ack=2)

Warning: attempt to start a timer that is already started

 A_input: timer + 15.000000

 B_input: recv packet (seq=3): cccccccccccccccccccc

 B_input: send ACK (ack=3)

 A_timerinterrupt: resend packet (seq=3): cccccccccccccccccccc

 A_timerinterrupt: timer + 15.000000

 A_output: bufferred packet (seq=4): dddddddddddddddddddd

 send_window: send packet (seq=4): dddddddddddddddddddd

 A_input: got ACK (ack=3)

Warning: attempt to start a timer that is already started

 A_input: timer + 15.000000

 A_output: bufferred packet (seq=5): eeeeeeeeeeeeeeeeeeee

 send_window: send packet (seq=5): eeeeeeeeeeeeeeeeeeee

 B_input: not the expected seq. send NAK (ack=3)

 A_output: bufferred packet (seq=6): ffffffffffffffffffff

 send_window: send packet (seq=6): ffffffffffffffffffff

 A_input: got NAK (ack=3). drop.

 B_input: recv packet (seq=4): dddddddddddddddddddd

 B_input: send ACK (ack=4)

 A_timerinterrupt: resend packet (seq=4): dddddddddddddddddddd

 A_timerinterrupt: resend packet (seq=5): eeeeeeeeeeeeeeeeeeee

 A_timerinterrupt: resend packet (seq=6): ffffffffffffffffffff

 A_timerinterrupt: timer + 15.000000

 A_output: bufferred packet (seq=7): gggggggggggggggggggg

 send_window: send packet (seq=7): gggggggggggggggggggg

B_input: recv packet (seq=5): eeeeeeeeeeeeeeeeeee

B_input: send ACK (ack=5)

A_output: bufferred packet (seq=8): hhhhhhhhhhhhhhhhhhh

send_window: send packet (seq=8): hhhhhhhhhhhhhhhhhhh

B_input: recv packet (seq=6): fffffffffffffffff

B_input: send ACK (ack=6)

A_input: got ACK (ack=4)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

B_input: not the expected seq. send NAK (ack=6)

A_output: bufferred packet (seq=9): iiiiiiiiiiiiiiiii

send_window: send packet (seq=9): iiiiiiiiiiiiiiiii

B_input: not the expected seq. send NAK (ack=6)

B_input: not the expected seq. send NAK (ack=6)

A_timerinterrupt: resend packet (seq=5): eeeeeeeeeeeeeeeeeee

A_timerinterrupt: resend packet (seq=6): fffffffffffffffff

A_timerinterrupt: resend packet (seq=7): ggggggggggggggggggg

A_timerinterrupt: resend packet (seq=8): hhhhhhhhhhhhhhhhhhh

A_timerinterrupt: resend packet (seq=9): iiiiiiiiiiiiiiiii

A_timerinterrupt: timer + 15.000000

B_input: recv packet (seq=7): ggggggggggggggggggg

B_input: send ACK (ack=7)

A_input: got ACK (ack=5)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

B_input: recv packet (seq=8): hhhhhhhhhhhhhhhhhhh

B_input: send ACK (ack=8)

A_output: bufferred packet (seq=10): jjjjjjjjjjjjjjjjjj

send_window: send packet (seq=10): jjjjjjjjjjjjjjjjjj

A_input: got ACK (ack=6)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

B_input: recv packet (seq=9): iiiiiiiiiiiiiiiii

B_input: send ACK (ack=9)

A_timerinterrupt: resend packet (seq=7): gggggggggggggggggggg

A_timerinterrupt: resend packet (seq=8): hhhhhhhhhhhhhhhhhhhh

A_timerinterrupt: resend packet (seq=9): iiiiiiiiiiiiiiiiiiii

A_timerinterrupt: resend packet (seq=10): jjjjjjjjjjjjjjjjjjjj

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=9)

A_input: got NAK (ack=6). drop.

A_input: got NAK (ack=6). drop.

B_input: not the expected seq. send NAK (ack=9)

A_input: got NAK (ack=6). drop.

B_input: not the expected seq. send NAK (ack=9)

A_timerinterrupt: resend packet (seq=7): gggggggggggggggggggg

A_timerinterrupt: resend packet (seq=8): hhhhhhhhhhhhhhhhhhhh

A_timerinterrupt: resend packet (seq=9): iiiiiiiiiiiiiiiiiiii

A_timerinterrupt: resend packet (seq=10): jjjjjjjjjjjjjjjjjjjj

A_timerinterrupt: timer + 15.000000

A_input: got ACK (ack=7)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

A_input: got ACK (ack=8)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

B_input: not the expected seq. send NAK (ack=9)

B_input: not the expected seq. send NAK (ack=9)

A_input: got ACK (ack=9)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

A_input: got NAK (ack=9). drop.

A_timerinterrupt: resend packet (seq=10): jjjjjjjjjjjjjjjjjjjj

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=9). drop.

B_input: recv packet (seq=10): jjjjjjjjjjjjjjjjjjjj

	B_input: send ACK (ack=10)
	A_input: got NAK (ack=9). drop.
	B_input: not the expected seq. send NAK (ack=10)
	B_input: not the expected seq. send NAK (ack=10)
	A_input: got NAK (ack=9). drop.
	A_timerinterrupt: resend packet (seq=10): jjjjjjjjjjjjjjjjjjjj
	A_timerinterrupt: timer + 15.000000
	B_input: not the expected seq. send NAK (ack=10)
	A_input: got NAK (ack=9). drop.
	B_input: not the expected seq. send NAK (ack=10)
	A_input: got ACK (ack=10)
	A_input: stop timer
	B_input: not the expected seq. send NAK (ack=10)
	A_input: got NAK (ack=10). drop.
	A_input: got NAK (ack=10). drop.
	B_input: not the expected seq. send NAK (ack=10)
	A_input: got NAK (ack=10). drop.
	A_input: got NAK (ack=10). drop.
	B_input: not the expected seq. send NAK (ack=10)
	B_input: not the expected seq. send NAK (ack=10)
	B_input: not the expected seq. send NAK (ack=10)
	A_input: got NAK (ack=10). drop.
	B_input: not the expected seq. send NAK (ack=10)
	A_input: got NAK (ack=10). drop.
	A_input: got NAK (ack=10). drop.
	A_input: got NAK (ack=10). drop.
	A_input: got NAK (ack=10). drop.
	A_input: got NAK (ack=10). drop.
	Simulator terminated at time 166.136475
	after sending 10 msgs from layer5
B)	30 percent loss and no error scenario to demonstrate your code can recover the lossed packets
	λ ./a.exe 50 0.3 0 10 0

```
 -----  Stop and Wait Network Simulator Version 1.1 --------


the number of messages to simulate: 50

packet loss probability: 0.300000

packet corruption probability: 0.000000

average time between messages from sender's layer5: 10.000000

TRACE: 0

 A_output: bufferred packet (seq=1): aaaaaaaaaaaaaaaaaaa

 send_window: send packet (seq=1): aaaaaaaaaaaaaaaaaaa

 B_input: recv packet (seq=1): aaaaaaaaaaaaaaaaaaa

 B_input: send ACK (ack=1)

 A_input: got ACK (ack=1)

 A_input: stop timer

 A_output: bufferred packet (seq=2): bbbbbbbbbbbbbbbbbbb

 send_window: send packet (seq=2): bbbbbbbbbbbbbbbbbbb

 B_input: recv packet (seq=2): bbbbbbbbbbbbbbbbbbb

 B_input: send ACK (ack=2)

 A_input: got ACK (ack=2)

 A_input: stop timer

 A_output: bufferred packet (seq=3): ccccccccccccccccccc

 send_window: send packet (seq=3): ccccccccccccccccccc

 B_input: recv packet (seq=3): ccccccccccccccccccc

 B_input: send ACK (ack=3)

 A_input: got ACK (ack=3)

 A_input: stop timer

 A_output: bufferred packet (seq=4): ddddddddddddddddddd

 send_window: send packet (seq=4): ddddddddddddddddddd

 B_input: recv packet (seq=4): ddddddddddddddddddd

 B_input: send ACK (ack=4)

 A_input: got ACK (ack=4)

 A_input: stop timer

 A_output: bufferred packet (seq=5): eeeeeeeeeeeeeeeeeee

 send_window: send packet (seq=5): eeeeeeeeeeeeeeeeeee
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B_input: recv packet (seq=5): eeeeeeeeeeeeeeeeee

B_input: send ACK (ack=5)

A_output: bufferred packet (seq=6): ffffffffffffffffff

send_window: send packet (seq=6): ffffffffffffffffff

A_timerinterrupt: resend packet (seq=5): eeeeeeeeeeeeeeeeee

A_timerinterrupt: resend packet (seq=6): ffffffffffffffffff

A_timerinterrupt: timer + 15.000000

B_input: recv packet (seq=6): ffffffffffffffffff

B_input: send ACK (ack=6)

B_input: not the expected seq. send NAK (ack=6)

A_output: bufferred packet (seq=7): gggggggggggggggggg

send_window: send packet (seq=7): gggggggggggggggggg

A_input: got ACK (ack=6)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

B_input: recv packet (seq=7): gggggggggggggggggg

B_input: send ACK (ack=7)

A_input: got NAK (ack=6). drop.

A_timerinterrupt: resend packet (seq=7): gggggggggggggggggg

A_timerinterrupt: timer + 15.000000

A_output: bufferred packet (seq=8): hhhhhhhhhhhhhhhhhh

send_window: send packet (seq=8): hhhhhhhhhhhhhhhhhh

B_input: not the expected seq. send NAK (ack=7)

A_input: got ACK (ack=7)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

B_input: recv packet (seq=8): hhhhhhhhhhhhhhhhhh

B_input: send ACK (ack=8)

A_timerinterrupt: resend packet (seq=8): hhhhhhhhhhhhhhhhhh

A_timerinterrupt: timer + 15.000000

A_output: bufferred packet (seq=9): iiiiiiiiiiiiiiiiii

send_window: send packet (seq=9): iiiiiiiiiiiiiiiiii

A_input: got ACK (ack=8)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

B_input: not the expected seq. send NAK (ack=8)

A_input: got NAK (ack=8). drop.

A_timerinterrupt: resend packet (seq=9): iiiiiiiiiiiiiiiiii

A_timerinterrupt: timer + 15.000000

B_input: recv packet (seq=9): iiiiiiiiiiiiiiiiii

B_input: send ACK (ack=9)

A_output: bufferred packet (seq=10): jjjjjjjjjjjjjjjjjjj

send_window: send packet (seq=10): jjjjjjjjjjjjjjjjjjj

B_input: not the expected seq. send NAK (ack=9)

B_input: recv packet (seq=10): jjjjjjjjjjjjjjjjjjj

B_input: send ACK (ack=10)

A_output: bufferred packet (seq=11): kkkkkkkkkkkkkkkkkkk

send_window: send packet (seq=11): kkkkkkkkkkkkkkkkkkk

B_input: recv packet (seq=11): kkkkkkkkkkkkkkkkkkk

B_input: send ACK (ack=11)

A_output: bufferred packet (seq=12): llllllllllllllllll

send_window: send packet (seq=12): llllllllllllllllll

A_input: got ACK (ack=9)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

A_output: bufferred packet (seq=13): mmmmmmmmmmmmmmmmmmm

send_window: send packet (seq=13): mmmmmmmmmmmmmmmmmmm

A_timerinterrupt: resend packet (seq=10): jjjjjjjjjjjjjjjjjjj

A_timerinterrupt: resend packet (seq=11): kkkkkkkkkkkkkkkkkkk

A_timerinterrupt: resend packet (seq=12): llllllllllllllllll

A_timerinterrupt: resend packet (seq=13): mmmmmmmmmmmmmmmmmmm

A_timerinterrupt: timer + 15.000000

B_input: recv packet (seq=12): llllllllllllllllll

B_input: send ACK (ack=12)

B_input: not the expected seq. send NAK (ack=12)

A_input: got ACK (ack=12)

Warning: attempt to start a timer that is already started

  A_input: timer + 15.000000

  B_input: not the expected seq. send NAK (ack=12)

  A_output: bufferred packet (seq=14): nnnnnnnnnnnnnnnnnnn

  send_window: send packet (seq=14): nnnnnnnnnnnnnnnnnnn

  A_timerinterrupt: resend packet (seq=13): mmmmmmmmmmmmmmmmmmm

  A_timerinterrupt: resend packet (seq=14): nnnnnnnnnnnnnnnnnnn

  A_timerinterrupt: timer + 15.000000

  B_input: recv packet (seq=13): mmmmmmmmmmmmmmmmmmm

  B_input: send ACK (ack=13)

  A_input: got NAK (ack=12). drop.

  B_input: recv packet (seq=14): nnnnnnnnnnnnnnnnnnn

  B_input: send ACK (ack=14)

  B_input: not the expected seq. send NAK (ack=14)

  A_output: bufferred packet (seq=15): ooooooooooooooooooo

  send_window: send packet (seq=15): ooooooooooooooooooo

  A_output: bufferred packet (seq=16): ppppppppppppppppppp

  send_window: send packet (seq=16): ppppppppppppppppppp

  A_input: got ACK (ack=14)

Warning: attempt to start a timer that is already started

  A_input: timer + 15.000000

  A_timerinterrupt: resend packet (seq=15): ooooooooooooooooooo

  A_timerinterrupt: resend packet (seq=16): ppppppppppppppppppp

  A_timerinterrupt: timer + 15.000000

  B_input: recv packet (seq=15): ooooooooooooooooooo

  B_input: send ACK (ack=15)

  A_input: got ACK (ack=15)

Warning: attempt to start a timer that is already started

  A_input: timer + 15.000000

  B_input: recv packet (seq=16): ppppppppppppppppppp

  B_input: send ACK (ack=16)

  A_input: got ACK (ack=16)

  A_input: stop timer

B_input: not the expected seq. send NAK (ack=16)

A_output: bufferred packet (seq=17): qqqqqqqqqqqqqqqqqqqq

send_window: send packet (seq=17): qqqqqqqqqqqqqqqqqqqq

A_input: got NAK (ack=16). drop.

B_input: recv packet (seq=17): qqqqqqqqqqqqqqqqqqqq

B_input: send ACK (ack=17)

A_timerinterrupt: resend packet (seq=17): qqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: timer + 15.000000

A_output: bufferred packet (seq=18): rrrrrrrrrrrrrrrrrrrr

send_window: send packet (seq=18): rrrrrrrrrrrrrrrrrrrr

A_output: bufferred packet (seq=19): ssssssssssssssssssss

send_window: send packet (seq=19): ssssssssssssssssssss

B_input: not the expected seq. send NAK (ack=17)

A_output: bufferred packet (seq=20): tttttttttttttttttttt

send_window: send packet (seq=20): tttttttttttttttttttt

B_input: recv packet (seq=18): rrrrrrrrrrrrrrrrrrrr

B_input: send ACK (ack=18)

A_timerinterrupt: resend packet (seq=17): qqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=18): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=19): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=20): tttttttttttttttttttt

A_timerinterrupt: timer + 15.000000

A_output: bufferred packet (seq=21): uuuuuuuuuuuuuuuuuuuu

send_window: send packet (seq=21): uuuuuuuuuuuuuuuuuuuu

B_input: recv packet (seq=19): ssssssssssssssssssss

B_input: send ACK (ack=19)

A_input: got ACK (ack=17)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

B_input: not the expected seq. send NAK (ack=19)

A_input: got ACK (ack=18)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

A_output: bufferred packet (seq=22): vvvvvvvvvvvvvvvvvvvv

send_window: send packet (seq=22): vvvvvvvvvvvvvvvvvvvv

B_input: not the expected seq. send NAK (ack=19)

A_timerinterrupt: resend packet (seq=19): sssssssssssssssssssss

A_timerinterrupt: resend packet (seq=20): tttttttttttttttttttt

A_timerinterrupt: resend packet (seq=21): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=22): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=19)

A_input: got ACK (ack=19)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

B_input: recv packet (seq=20): tttttttttttttttttttt

B_input: send ACK (ack=20)

A_output: bufferred packet (seq=23): wwwwwwwwwwwwwwwwwwww

send_window: send packet (seq=23): wwwwwwwwwwwwwwwwwwww

B_input: recv packet (seq=21): uuuuuuuuuuuuuuuuuuuu

B_input: send ACK (ack=21)

A_input: got ACK (ack=20)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

A_output: bufferred packet (seq=24): xxxxxxxxxxxxxxxxxxxx

send_window: send packet (seq=24): xxxxxxxxxxxxxxxxxxxx

B_input: recv packet (seq=22): vvvvvvvvvvvvvvvvvvvv

B_input: send ACK (ack=22)

A_output: bufferred packet (seq=25): yyyyyyyyyyyyyyyyyyyy

send_window: send packet (seq=25): yyyyyyyyyyyyyyyyyyyy

A_timerinterrupt: resend packet (seq=21): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=22): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=23): wwwwwwwwwwwwwwwwwwww

A_timerinterrupt: resend packet (seq=24): xxxxxxxxxxxxxxxxxxxx

A_timerinterrupt: resend packet (seq=25): yyyyyyyyyyyyyyyyyyyy

A_timerinterrupt: timer + 15.000000

A_input: got ACK (ack=21)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

A_input: got ACK (ack=22)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

B_input: not the expected seq. send NAK (ack=22)

A_input: got NAK (ack=22). drop.

A_output: bufferred packet (seq=26): zzzzzzzzzzzzzzzzzz

send_window: send packet (seq=26): zzzzzzzzzzzzzzzzzz

A_timerinterrupt: resend packet (seq=23): wwwwwwwwwwwwwwwwww

A_timerinterrupt: resend packet (seq=24): xxxxxxxxxxxxxxxxxx

A_timerinterrupt: resend packet (seq=25): yyyyyyyyyyyyyyyyyy

A_timerinterrupt: resend packet (seq=26): zzzzzzzzzzzzzzzzzz

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=22)

B_input: not the expected seq. send NAK (ack=22)

A_output: bufferred packet (seq=27): aaaaaaaaaaaaaaaaaa

send_window: send packet (seq=27): aaaaaaaaaaaaaaaaaa

A_input: got NAK (ack=22). drop.

B_input: not the expected seq. send NAK (ack=22)

B_input: recv packet (seq=23): wwwwwwwwwwwwwwwwww

B_input: send ACK (ack=23)

B_input: not the expected seq. send NAK (ack=23)

A_timerinterrupt: resend packet (seq=23): wwwwwwwwwwwwwwwwww

A_timerinterrupt: resend packet (seq=24): xxxxxxxxxxxxxxxxxx

A_timerinterrupt: resend packet (seq=25): yyyyyyyyyyyyyyyyyy

A_timerinterrupt: resend packet (seq=26): zzzzzzzzzzzzzzzzzz

A_timerinterrupt: resend packet (seq=27): aaaaaaaaaaaaaaaaaa

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=23)

A_input: got ACK (ack=23)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

A_output: bufferred packet (seq=28): bbbbbbbbbbbbbbbbbbbb

send_window: send packet (seq=28): bbbbbbbbbbbbbbbbbbbb

B_input: not the expected seq. send NAK (ack=23)

B_input: not the expected seq. send NAK (ack=23)

A_output: bufferred packet (seq=29): cccccccccccccccccccc

send_window: send packet (seq=29): cccccccccccccccccccc

A_input: got NAK (ack=23). drop.

A_timerinterrupt: resend packet (seq=24): xxxxxxxxxxxxxxxxxxxx

A_timerinterrupt: resend packet (seq=25): yyyyyyyyyyyyyyyyyyyy

A_timerinterrupt: resend packet (seq=26): zzzzzzzzzzzzzzzzzzzz

A_timerinterrupt: resend packet (seq=27): aaaaaaaaaaaaaaaaaaaa

A_timerinterrupt: resend packet (seq=28): bbbbbbbbbbbbbbbbbbbb

A_timerinterrupt: resend packet (seq=29): cccccccccccccccccccc

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=23)

B_input: recv packet (seq=24): xxxxxxxxxxxxxxxxxxxx

B_input: send ACK (ack=24)

A_input: got NAK (ack=23). drop.

B_input: not the expected seq. send NAK (ack=24)

A_output: bufferred packet (seq=30): dddddddddddddddddddd

send_window: send packet (seq=30): dddddddddddddddddddd

A_timerinterrupt: resend packet (seq=24): xxxxxxxxxxxxxxxxxxxx

A_timerinterrupt: resend packet (seq=25): yyyyyyyyyyyyyyyyyyyy

A_timerinterrupt: resend packet (seq=26): zzzzzzzzzzzzzzzzzzzz

A_timerinterrupt: resend packet (seq=27): aaaaaaaaaaaaaaaaaaaa

A_timerinterrupt: resend packet (seq=28): bbbbbbbbbbbbbbbbbbbb

A_timerinterrupt: resend packet (seq=29): cccccccccccccccccccc

A_timerinterrupt: resend packet (seq=30): dddddddddddddddddddd

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=24)

A_input: got ACK (ack=24)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

B_input: not the expected seq. send NAK (ack=24)

A_input: got NAK (ack=24). drop.

A_input: got NAK (ack=24). drop.

B_input: recv packet (seq=25): yyyyyyyyyyyyyyyyyyyy

B_input: send ACK (ack=25)

A_output: bufferred packet (seq=31): eeeeeeeeeeeeeeeeeee

send_window: send packet (seq=31): eeeeeeeeeeeeeeeeeee

A_input: got NAK (ack=24). drop.

A_timerinterrupt: resend packet (seq=25): yyyyyyyyyyyyyyyyyyyy

A_timerinterrupt: resend packet (seq=26): zzzzzzzzzzzzzzzzzzz

A_timerinterrupt: resend packet (seq=27): aaaaaaaaaaaaaaaaaaa

A_timerinterrupt: resend packet (seq=28): bbbbbbbbbbbbbbbbbbb

A_timerinterrupt: resend packet (seq=29): ccccccccccccccccccc

A_timerinterrupt: resend packet (seq=30): ddddddddddddddddddd

A_timerinterrupt: resend packet (seq=31): eeeeeeeeeeeeeeeeeee

A_timerinterrupt: timer + 15.000000

B_input: recv packet (seq=26): zzzzzzzzzzzzzzzzzzz

B_input: send ACK (ack=26)

A_input: got ACK (ack=25)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

B_input: not the expected seq. send NAK (ack=26)

A_output: bufferred packet (seq=32): fffffffffffffffffff

send_window: send packet (seq=32): fffffffffffffffffff

A_timerinterrupt: resend packet (seq=26): zzzzzzzzzzzzzzzzzzz

A_timerinterrupt: resend packet (seq=27): aaaaaaaaaaaaaaaaaaa

A_timerinterrupt: resend packet (seq=28): bbbbbbbbbbbbbbbbbbb

A_timerinterrupt: resend packet (seq=29): ccccccccccccccccccc

A_timerinterrupt: resend packet (seq=30): ddddddddddddddddddd

A_timerinterrupt: resend packet (seq=31): eeeeeeeeeeeeeeeeeee

A_timerinterrupt: resend packet (seq=32): fffffffffffffffffff

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=26)

A_input: got ACK (ack=26)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

A_input: got NAK (ack=26). drop.

B_input: not the expected seq. send NAK (ack=26)

B_input: not the expected seq. send NAK (ack=26)

A_timerinterrupt: resend packet (seq=27): aaaaaaaaaaaaaaaaaaa

A_timerinterrupt: resend packet (seq=28): bbbbbbbbbbbbbbbbbbbb

A_timerinterrupt: resend packet (seq=29): ccccccccccccccccccc

A_timerinterrupt: resend packet (seq=30): dddddddddddddddddddd

A_timerinterrupt: resend packet (seq=31): eeeeeeeeeeeeeeeeeee

A_timerinterrupt: resend packet (seq=32): ffffffffffffffffff

A_timerinterrupt: timer + 15.000000

A_output: bufferred packet (seq=33): gggggggggggggggggggg

send_window: send packet (seq=33): gggggggggggggggggggg

B_input: not the expected seq. send NAK (ack=26)

A_input: got NAK (ack=26). drop.

B_input: recv packet (seq=27): aaaaaaaaaaaaaaaaaaa

B_input: send ACK (ack=27)

A_input: got NAK (ack=26). drop.

B_input: not the expected seq. send NAK (ack=27)

A_output: bufferred packet (seq=34): hhhhhhhhhhhhhhhhhhh

send_window: send packet (seq=34): hhhhhhhhhhhhhhhhhhh

A_timerinterrupt: resend packet (seq=27): aaaaaaaaaaaaaaaaaaa

A_timerinterrupt: resend packet (seq=28): bbbbbbbbbbbbbbbbbbbb

A_timerinterrupt: resend packet (seq=29): ccccccccccccccccccc

A_timerinterrupt: resend packet (seq=30): dddddddddddddddddddd

A_timerinterrupt: resend packet (seq=31): eeeeeeeeeeeeeeeeeee

A_timerinterrupt: resend packet (seq=32): ffffffffffffffffff

A_timerinterrupt: resend packet (seq=33): gggggggggggggggggggg

A_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhh

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=27)

B_input: not the expected seq. send NAK (ack=27)

A_output: bufferred packet (seq=35): iiiiiiiiiiiiiiiiii

A_output: bufferred packet (seq=36): jjjjjjjjjjjjjjjjjj

B_input: not the expected seq. send NAK (ack=27)

A_output: bufferred packet (seq=37): kkkkkkkkkkkkkkkkkkkk

A_input: got ACK (ack=27)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

A_timerinterrupt: resend packet (seq=28): bbbbbbbbbbbbbbbbbbbb

A_timerinterrupt: resend packet (seq=29): cccccccccccccccccccc

A_timerinterrupt: resend packet (seq=30): dddddddddddddddddddd

A_timerinterrupt: resend packet (seq=31): eeeeeeeeeeeeeeeeeeee

A_timerinterrupt: resend packet (seq=32): ffffffffffffffffff

A_timerinterrupt: resend packet (seq=33): gggggggggggggggggggg

A_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhhh

A_timerinterrupt: timer + 15.000000

B_input: recv packet (seq=28): bbbbbbbbbbbbbbbbbbbb

B_input: send ACK (ack=28)

A_output: bufferred packet (seq=38): llllllllllllllllll

send_window: send packet (seq=35): iiiiiiiiiiiiiiiiii

B_input: recv packet (seq=29): cccccccccccccccccccc

B_input: send ACK (ack=29)

A_input: got ACK (ack=28)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

A_output: bufferred packet (seq=39): mmmmmmmmmmmmmmmmmmmm

send_window: send packet (seq=36): jjjjjjjjjjjjjjjjjj

B_input: recv packet (seq=30): dddddddddddddddddddd

B_input: send ACK (ack=30)

A_input: got ACK (ack=29)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

A_timerinterrupt: resend packet (seq=30): dddddddddddddddddddd

A_timerinterrupt: resend packet (seq=31): eeeeeeeeeeeeeeeeeeee

A_timerinterrupt: resend packet (seq=32): ffffffffffffffffffff

A_timerinterrupt: resend packet (seq=33): gggggggggggggggggggg

A_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhhh

A_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiiii

A_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjjj

A_timerinterrupt: timer + 15.000000

A_input: got ACK (ack=30)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

B_input: recv packet (seq=31): eeeeeeeeeeeeeeeeeeee

B_input: send ACK (ack=31)

A_input: got ACK (ack=31)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

A_output: bufferred packet (seq=40): nnnnnnnnnnnnnnnnnnnn

send_window: send packet (seq=37): kkkkkkkkkkkkkkkkkkkk

send_window: send packet (seq=38): llllllllllllllllllll

send_window: send packet (seq=39): mmmmmmmmmmmmmmmmmmmm

A_timerinterrupt: resend packet (seq=32): ffffffffffffffffffff

A_timerinterrupt: resend packet (seq=33): gggggggggggggggggggg

A_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhhh

A_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiiii

A_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjjj

A_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkkk

A_timerinterrupt: resend packet (seq=38): llllllllllllllllllll

A_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmmm

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=31)

B_input: not the expected seq. send NAK (ack=31)

A_input: got NAK (ack=31). drop.

A_input: got NAK (ack=31). drop.

B_input: not the expected seq. send NAK (ack=31)

A_output: bufferred packet (seq=41): ooooooooooooooooooooo

B_input: not the expected seq. send NAK (ack=31)

B_input: recv packet (seq=32): ffffffffffffffffff

B_input: send ACK (ack=32)

A_timerinterrupt: resend packet (seq=32): ffffffffffffffffff

A_timerinterrupt: resend packet (seq=33): gggggggggggggggggggg

A_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhhh

A_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjjj

A_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkkk

A_timerinterrupt: resend packet (seq=38): llllllllllllllllll

A_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmmm

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=31). drop.

B_input: not the expected seq. send NAK (ack=32)

B_input: not the expected seq. send NAK (ack=32)

A_input: got ACK (ack=32)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

A_output: bufferred packet (seq=42): pppppppppppppppppppp

send_window: send packet (seq=40): nnnnnnnnnnnnnnnnnnnn

A_input: got NAK (ack=32). drop.

A_input: got NAK (ack=32). drop.

A_timerinterrupt: resend packet (seq=33): gggggggggggggggggggg

A_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhhh

A_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjjj

A_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkkk

A_timerinterrupt: resend packet (seq=38): llllllllllllllllll

A_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmmm

A_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnnn

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=32)

A_output: bufferred packet (seq=43): qqqqqqqqqqqqqqqqqqqq

A_input: got NAK (ack=32). drop.

B_input: not the expected seq. send NAK (ack=32)

A_timerinterrupt: resend packet (seq=33): gggggggggggggggggggg

A_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhhh

A_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiiii

A_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjjj

A_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkkk

A_timerinterrupt: resend packet (seq=38): llllllllllllllllllll

A_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmmm

A_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnnn

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=32)

A_input: got NAK (ack=32). drop.

A_output: bufferred packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_output: bufferred packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=33): gggggggggggggggggggg

A_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhhh

A_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiiii

A_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjjj

A_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkkk

A_timerinterrupt: resend packet (seq=38): llllllllllllllllllll

A_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmmm

A_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnnn

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=32)

B_input: not the expected seq. send NAK (ack=32)

B_input: not the expected seq. send NAK (ack=32)

A_input: got NAK (ack=32). drop.

B_input: not the expected seq. send NAK (ack=32)

A_output: bufferred packet (seq=46): tttttttttttttttttttt

A_input: got NAK (ack=32). drop.

A_input: got NAK (ack=32). drop.

A_timerinterrupt: resend packet (seq=33): ggggggggggggggggggggg

A_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhhh

A_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiii

A_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjjj

A_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkkk

A_timerinterrupt: resend packet (seq=38): llllllllllllllllll

A_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmmm

A_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnnn

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=32)

B_input: not the expected seq. send NAK (ack=32)

A_input: got NAK (ack=32). drop.

B_input: not the expected seq. send NAK (ack=32)

A_output: bufferred packet (seq=47): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=33): ggggggggggggggggggggg

A_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhhh

A_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiii

A_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjjj

A_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkkk

A_timerinterrupt: resend packet (seq=38): llllllllllllllllll

A_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmmm

A_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnnn

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=32). drop.

B_input: not the expected seq. send NAK (ack=32)

B_input: not the expected seq. send NAK (ack=32)

A_input: got NAK (ack=32). drop.

B_input: not the expected seq. send NAK (ack=32)

A_input: got NAK (ack=32). drop.

A_timerinterrupt: resend packet (seq=33): ggggggggggggggggggggg

A_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhhh

A_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiii

A_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjjjj

A_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkkk

A_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A_timerinterrupt: timer + 15.000000

B_input: recv packet (seq=33): gggggggggggggggggggg

B_input: send ACK (ack=33)

A_output: bufferred packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_input: got ACK (ack=33)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

B_input: not the expected seq. send NAK (ack=33)

A_output: bufferred packet (seq=49): wwwwwwwwwwwwwwwwwww

send_window: send packet (seq=41): ooooooooooooooooooo

B_input: not the expected seq. send NAK (ack=33)

A_input: got NAK (ack=33). drop.

A_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhh

A_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjjjj

A_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkkk

A_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=33). drop.

B_input: not the expected seq. send NAK (ack=33)

A_output: bufferred packet (seq=50): xxxxxxxxxxxxxxxxxxx

B_input: recv packet (seq=34): hhhhhhhhhhhhhhhhhhh

B_input: send ACK (ack=34)

A_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhh

A_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjjjj

A_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkkk

A_timerinterrupt: resend packet (seq=38): llllllllllllllllll

A_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A_timerinterrupt: resend packet (seq=41): oooooooooooooooooo

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=34)

B_input: not the expected seq. send NAK (ack=34)

A_input: got ACK (ack=34)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

B_input: not the expected seq. send NAK (ack=34)

B_input: not the expected seq. send NAK (ack=34)

A_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiii

A_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjjjj

A_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkkk

A_timerinterrupt: resend packet (seq=38): llllllllllllllllll

A_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A_timerinterrupt: resend packet (seq=41): oooooooooooooooooo

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=34). drop.

B_input: not the expected seq. send NAK (ack=34)

A_input: got NAK (ack=34). drop.

B_input: not the expected seq. send NAK (ack=34)

A_input: got NAK (ack=34). drop.

B_input: not the expected seq. send NAK (ack=34)

A_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiii

A_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjjjj

A_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkkk

A_input: timer + 15.000000

B_input: recv packet (seq=38): llllllllllllllllll

B_input: send ACK (ack=38)

B_input: recv packet (seq=39): mmmmmmmmmmmmmmmmmmm

B_input: send ACK (ack=39)

A_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkkk

A_timerinterrupt: resend packet (seq=38): llllllllllllllllll

A_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A_timerinterrupt: resend packet (seq=41): oooooooooooooooooooo

A_timerinterrupt: timer + 15.000000

A_input: got ACK (ack=37)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

A_input: got ACK (ack=38)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

B_input: recv packet (seq=40): nnnnnnnnnnnnnnnnnnn

B_input: send ACK (ack=40)

A_input: got ACK (ack=39)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

B_input: not the expected seq. send NAK (ack=40)

A_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A_timerinterrupt: resend packet (seq=41): oooooooooooooooooooo

A_timerinterrupt: timer + 15.000000

A_input: got ACK (ack=40)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

B_input: not the expected seq. send NAK (ack=40)

B_input: not the expected seq. send NAK (ack=40)

A_input: got NAK (ack=40). drop.

A_input: got NAK (ack=40). drop.

A_timerinterrupt: resend packet (seq=41): oooooooooooooooooooo

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=40)

A_input: got NAK (ack=40). drop.

B_input: not the expected seq. send NAK (ack=40)

A_timerinterrupt: resend packet (seq=41): oooooooooooooooooooo

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=40)

A_input: got NAK (ack=40). drop.

B_input: not the expected seq. send NAK (ack=40)

A_timerinterrupt: resend packet (seq=41): oooooooooooooooooooo

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=40). drop.

B_input: not the expected seq. send NAK (ack=40)

B_input: not the expected seq. send NAK (ack=40)

A_input: got NAK (ack=40). drop.

B_input: not the expected seq. send NAK (ack=40)

A_input: got NAK (ack=40). drop.

B_input: not the expected seq. send NAK (ack=40)

A_timerinterrupt: resend packet (seq=41): oooooooooooooooooooo

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=40)

B_input: not the expected seq. send NAK (ack=40)

A_input: got NAK (ack=40). drop.

A_timerinterrupt: resend packet (seq=41): oooooooooooooooooooo

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=40). drop.

B_input: not the expected seq. send NAK (ack=40)

A_input: got NAK (ack=40). drop.

B_input: not the expected seq. send NAK (ack=40)

A_input: got NAK (ack=40). drop.

B_input: not the expected seq. send NAK (ack=40)

A_input: got NAK (ack=40). drop.

B_input: recv packet (seq=41): oooooooooooooooooooo

B_input: send ACK (ack=41)

A_input: got NAK (ack=40). drop.

A_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=41)

A_input: got ACK (ack=41)

A_input: stop timer

send_window: send packet (seq=42): pppppppppppppppppppp

send_window: send packet (seq=43): qqqqqqqqqqqqqqqqqqqq

send_window: send packet (seq=44): rrrrrrrrrrrrrrrrrrrr

send_window: send packet (seq=45): ssssssssssssssssssss

send_window: send packet (seq=46): tttttttttttttttttttt

send_window: send packet (seq=47): uuuuuuuuuuuuuuuuuuuu

send_window: send packet (seq=48): vvvvvvvvvvvvvvvvvvvv

send_window: send packet (seq=49): wwwwwwwwwwwwwwwwwwww

B_input: not the expected seq. send NAK (ack=41)

B_input: not the expected seq. send NAK (ack=41)

A_timerinterrupt: resend packet (seq=42): pppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): tttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=41)

B_input: not the expected seq. send NAK (ack=41)

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

A_timerinterrupt: resend packet (seq=42): pppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): tttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

B_input: not the expected seq. send NAK (ack=41)

B_input: not the expected seq. send NAK (ack=41)

A_timerinterrupt: resend packet (seq=42): pppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): tttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

A_timerinterrupt: resend packet (seq=42): pppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): tttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

A_timerinterrupt: resend packet (seq=42): ppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): sssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

A_timerinterrupt: resend packet (seq=42): ppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): sssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

A_timerinterrupt: resend packet (seq=42): pppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): tttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

A_timerinterrupt: resend packet (seq=42): pppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): tttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

B_input: not the expected seq. send NAK (ack=41)

B_input: not the expected seq. send NAK (ack=41)

A_timerinterrupt: resend packet (seq=42): pppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): sssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

B_input: not the expected seq. send NAK (ack=41)

A_timerinterrupt: resend packet (seq=42): ppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): sssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

A_timerinterrupt: resend packet (seq=42): ppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): sssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

A_input: got NAK (ack=41). drop.

A_timerinterrupt: resend packet (seq=42): pppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): tttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=41)

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

A_timerinterrupt: resend packet (seq=42): pppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): tttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

B_input: not the expected seq. send NAK (ack=41)

B_input: not the expected seq. send NAK (ack=41)

A_timerinterrupt: resend packet (seq=42): pppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): tttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=41). drop.

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

A_timerinterrupt: resend packet (seq=42): pppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): tttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

B_input: not the expected seq. send NAK (ack=41)

A_timerinterrupt: resend packet (seq=42): pppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): tttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

B_input: not the expected seq. send NAK (ack=41)

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

A_timerinterrupt: resend packet (seq=42): pppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): tttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

A_timerinterrupt: resend packet (seq=42): pppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): tttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=41)

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

A_input: got NAK (ack=41). drop.

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

A_timerinterrupt: resend packet (seq=42): pppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): tttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

A_timerinterrupt: resend packet (seq=42): pppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): tttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

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A_input: got NAK (ack=41). drop.

A_timerinterrupt: resend packet (seq=42): pppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

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A_input: got NAK (ack=41). drop.

A_timerinterrupt: resend packet (seq=42): ppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): sssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

A_timerinterrupt: resend packet (seq=42): ppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): sssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

A_timerinterrupt: resend packet (seq=42): pppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): tttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

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A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqq

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A_timerinterrupt: resend packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): tttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

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B_input: not the expected seq. send NAK (ack=41)

B_input: not the expected seq. send NAK (ack=41)

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A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): tttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

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B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

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A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): tttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=41). drop.

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B_input: not the expected seq. send NAK (ack=41)

A_timerinterrupt: resend packet (seq=42): pppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): tttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

A_input: got NAK (ack=41). drop.

B_input: not the expected seq. send NAK (ack=41)

B_input: not the expected seq. send NAK (ack=41)

A_timerinterrupt: resend packet (seq=42): pppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): tttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=41). drop.

B_input: recv packet (seq=42): pppppppppppppppppppp

B_input: send ACK (ack=42)

A_timerinterrupt: resend packet (seq=42): pppppppppppppppppppp

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): tttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=42)

A_input: got ACK (ack=42)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

B_input: not the expected seq. send NAK (ack=42)

B_input: not the expected seq. send NAK (ack=42)

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): ttttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=42)

A_input: got NAK (ack=42). drop.

A_input: got NAK (ack=42). drop.

B_input: recv packet (seq=43): qqqqqqqqqqqqqqqqqqqqq

B_input: send ACK (ack=43)

B_input: recv packet (seq=44): rrrrrrrrrrrrrrrrrrrr

B_input: send ACK (ack=44)

A_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqqqq

A_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrrr

A_timerinterrupt: resend packet (seq=45): sssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): ttttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=44)

A_input: got ACK (ack=43)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

A_input: got ACK (ack=44)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

B_input: not the expected seq. send NAK (ack=44)

A_timerinterrupt: resend packet (seq=45): sssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): ttttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=44)

A_input: got NAK (ack=44). drop.

B_input: not the expected seq. send NAK (ack=44)

B_input: not the expected seq. send NAK (ack=44)

A_timerinterrupt: resend packet (seq=45): ssssssssssssssssssss

A_timerinterrupt: resend packet (seq=46): tttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=44). drop.

B_input: recv packet (seq=45): ssssssssssssssssssss

B_input: send ACK (ack=45)

A_input: got NAK (ack=44). drop.

A_input: got ACK (ack=45)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

B_input: recv packet (seq=46): tttttttttttttttttttt

B_input: send ACK (ack=46)

B_input: recv packet (seq=47): uuuuuuuuuuuuuuuuuuuu

B_input: send ACK (ack=47)

A_timerinterrupt: resend packet (seq=46): tttttttttttttttttttt

A_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuuu

A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvvv

A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwwww

A_timerinterrupt: timer + 15.000000

B_input: recv packet (seq=48): vvvvvvvvvvvvvvvvvvvv

B_input: send ACK (ack=48)

A_input: got ACK (ack=46)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

A_input: got ACK (ack=47)

Warning: attempt to start a timer that is already started

  A_input: timer + 15.000000

  B_input: recv packet (seq=49): wwwwwwwwwwwwwwwwwww

  B_input: send ACK (ack=49)

  A_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

  A_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

  A_timerinterrupt: timer + 15.000000

  B_input: not the expected seq. send NAK (ack=49)

  A_input: got ACK (ack=48)

Warning: attempt to start a timer that is already started

  A_input: timer + 15.000000

  B_input: not the expected seq. send NAK (ack=49)

  A_input: got ACK (ack=49)

  A_input: stop timer

  send_window: send packet (seq=50): xxxxxxxxxxxxxxxxxxx

  B_input: not the expected seq. send NAK (ack=49)

  B_input: not the expected seq. send NAK (ack=49)

  A_input: got NAK (ack=49). drop.

  B_input: not the expected seq. send NAK (ack=49)

  A_input: got NAK (ack=49). drop.

  A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxxx

  A_timerinterrupt: timer + 15.000000

  A_input: got NAK (ack=49). drop.

  B_input: not the expected seq. send NAK (ack=49)

  B_input: not the expected seq. send NAK (ack=49)

  A_input: got NAK (ack=49). drop.

  A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxxx

  A_timerinterrupt: timer + 15.000000

  B_input: not the expected seq. send NAK (ack=49)

  B_input: not the expected seq. send NAK (ack=49)

  A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxxx

  A_timerinterrupt: timer + 15.000000

  B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=49)

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

B_input: not the expected seq. send NAK (ack=49)

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

B_input: not the expected seq. send NAK (ack=49)

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=49)

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

B_input: not the expected seq. send NAK (ack=49)

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=49)

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

B_input: not the expected seq. send NAK (ack=49)

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

A_input: got NAK (ack=49). drop.

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=49). drop.

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=49)

B_input: not the expected seq. send NAK (ack=49)

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

B_input: not the expected seq. send NAK (ack=49)

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=49)

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=49)

B_input: not the expected seq. send NAK (ack=49)

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=49)

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

A_input: got NAK (ack=49). drop.

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=49)

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

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B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=49)

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

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B_input: not the expected seq. send NAK (ack=49)

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

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B_input: not the expected seq. send NAK (ack=49)

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=49)

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A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

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A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

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A_input: got NAK (ack=49). drop.

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=49). drop.

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A_input: got NAK (ack=49). drop.

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A_input: got NAK (ack=49). drop.

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

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A_timerinterrupt: timer + 15.000000

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A_timerinterrupt: timer + 15.000000

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A_timerinterrupt: timer + 15.000000

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A_input: got NAK (ack=49). drop.

B_input: not the expected seq. send NAK (ack=49)

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=49)

B_input: not the expected seq. send NAK (ack=49)

A_input: got NAK (ack=49). drop.

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=49). drop.

B_input: recv packet (seq=50): xxxxxxxxxxxxxxxxxxx

B_input: send ACK (ack=50)

B_input: not the expected seq. send NAK (ack=50)

A_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxxx

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=50)

B_input: not the expected seq. send NAK (ack=50)

A_input: got ACK (ack=50)

A_input: stop timer

B_input: not the expected seq. send NAK (ack=50)

A_input: got NAK (ack=50). drop.

B_input: not the expected seq. send NAK (ack=50)

A_input: got NAK (ack=50). drop.

B_input: not the expected seq. send NAK (ack=50)

B_input: not the expected seq. send NAK (ack=50)

B_input: not the expected seq. send NAK (ack=50)

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B_input: not the expected seq. send NAK (ack=50)

A_input: got NAK (ack=50). drop.

B_input: not the expected seq. send NAK (ack=50)

B_input: not the expected seq. send NAK (ack=50)

A_input: got NAK (ack=50). drop.

B_input: not the expected seq. send NAK (ack=50)

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B_input: not the expected seq. send NAK (ack=50)

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A_input: got NAK (ack=50). drop.

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A_input: got NAK (ack=50). drop.

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A_input: got NAK (ack=50). drop.

B_input: not the expected seq. send NAK (ack=50)

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A_input: got NAK (ack=50). drop.

B_input: not the expected seq. send NAK (ack=50)

A_input: got NAK (ack=50). drop.

B_input: not the expected seq. send NAK (ack=50)

A_input: got NAK (ack=50). drop.

B_input: not the expected seq. send NAK (ack=50)

A_input: got NAK (ack=50). drop.

A_input: got NAK (ack=50). drop.

A_input: got NAK (ack=50). drop.

B_input: not the expected seq. send NAK (ack=50)

	B_input: not the expected seq. send NAK (ack=50)
	B_input: not the expected seq. send NAK (ack=50)
	A_input: got NAK (ack=50). drop.
	B_input: not the expected seq. send NAK (ack=50)
	B_input: not the expected seq. send NAK (ack=50)
	B_input: not the expected seq. send NAK (ack=50)
	A_input: got NAK (ack=50). drop.
	B_input: not the expected seq. send NAK (ack=50)
	A_input: got NAK (ack=50). drop.
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	A_input: got NAK (ack=50). drop.
	B_input: not the expected seq. send NAK (ack=50)
	B_input: not the expected seq. send NAK (ack=50)
	A_input: got NAK (ack=50). drop.
	A_input: got NAK (ack=50). drop.
	Simulator terminated at time 2516.320313
	after sending 50 msgs from layer5
C)	No loss and 30 percent corruption scenario to demonstrate your code can recover the erroneously received packets
	λ ./a.exe 10 0 0.3 10 0
	----- Stop and Wait Network Simulator Version 1.1 --------
	the number of messages to simulate: 10
	packet loss probability: 0.000000
	packet corruption probability: 0.300000
	average time between messages from sender's layer5: 10.000000
	TRACE: 0
	A_output: bufferred packet (seq=1): aaaaaaaaaaaaaaaaaaaa
	send_window: send packet (seq=1): aaaaaaaaaaaaaaaaaaaa
	B_input: recv packet (seq=1): aaaaaaaaaaaaaaaaaaaa
	B_input: send ACK (ack=1)
	A_input: got ACK (ack=1)
	A_input: stop timer

A_output: bufferred packet (seq=2): bbbbbbbbbbbbbbbbbbbb

send_window: send packet (seq=2): bbbbbbbbbbbbbbbbbbbb

B_input: recv packet (seq=2): bbbbbbbbbbbbbbbbbbbb

B_input: send ACK (ack=2)

A_input: got ACK (ack=2)

A_input: stop timer

A_output: bufferred packet (seq=3): cccccccccccccccccccc

send_window: send packet (seq=3): cccccccccccccccccccc

B_input: recv packet (seq=3): cccccccccccccccccccc

B_input: send ACK (ack=3)

A_input: got ACK (ack=3)

A_input: stop timer

A_output: bufferred packet (seq=4): dddddddddddddddddddd

send_window: send packet (seq=4): dddddddddddddddddddd

B_input: packet corrupted. send NAK (ack=3)

A_input: got NAK (ack=3). drop.

A_timerinterrupt: resend packet (seq=4): dddddddddddddddddddd

A_timerinterrupt: timer + 15.000000

A_output: bufferred packet (seq=5): eeeeeeeeeeeeeeeeeeee

send_window: send packet (seq=5): eeeeeeeeeeeeeeeeeeee

A_output: bufferred packet (seq=6): ffffffffffffffffffff

send_window: send packet (seq=6): ffffffffffffffffffff

B_input: recv packet (seq=4): dddddddddddddddddddd

B_input: send ACK (ack=4)

A_input: packet corrupted. drop.

A_output: bufferred packet (seq=7): gggggggggggggggggggg

send_window: send packet (seq=7): gggggggggggggggggggg

B_input: recv packet (seq=5): eeeeeeeeeeeeeeeeeeee

B_input: send ACK (ack=5)

A_timerinterrupt: resend packet (seq=4): dddddddddddddddddddd

A_timerinterrupt: resend packet (seq=5): eeeeeeeeeeeeeeeeeeee

A_timerinterrupt: resend packet (seq=6): ffffffffffffffffffff

A_timerinterrupt: resend packet (seq=7): gggggggggggggggggggg

A_timerinterrupt: timer + 15.000000

B_input: packet corrupted. send NAK (ack=5)

A_input: got ACK (ack=5)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

B_input: not the expected seq. send NAK (ack=5)

A_input: got NAK (ack=5). drop.

B_input: not the expected seq. send NAK (ack=5)

A_output: bufferred packet (seq=8): hhhhhhhhhhhhhhhhhhhh

send_window: send packet (seq=8): hhhhhhhhhhhhhhhhhhhh

A_timerinterrupt: resend packet (seq=6): ffffffffffffffffff

A_timerinterrupt: resend packet (seq=7): gggggggggggggggggggg

A_timerinterrupt: resend packet (seq=8): hhhhhhhhhhhhhhhhhhhh

A_timerinterrupt: timer + 15.000000

A_output: bufferred packet (seq=9): iiiiiiiiiiiiiiiiiii

send_window: send packet (seq=9): iiiiiiiiiiiiiiiiiii

B_input: not the expected seq. send NAK (ack=5)

A_input: got NAK (ack=5). drop.

B_input: recv packet (seq=6): ffffffffffffffffff

B_input: send ACK (ack=6)

A_input: got NAK (ack=5). drop.

B_input: recv packet (seq=7): gggggggggggggggggggg

B_input: send ACK (ack=7)

A_timerinterrupt: resend packet (seq=6): ffffffffffffffffff

A_timerinterrupt: resend packet (seq=7): gggggggggggggggggggg

A_timerinterrupt: resend packet (seq=8): hhhhhhhhhhhhhhhhhhhh

A_timerinterrupt: resend packet (seq=9): iiiiiiiiiiiiiiiiiii

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=5). drop.

A_input: got ACK (ack=6)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

A_output: bufferred packet (seq=10): jjjjjjjjjjjjjjjjjjjj

send_window: send packet (seq=10): jjjjjjjjjjjjjjjjjjjj

B_input: packet corrupted. send NAK (ack=7)

B_input: not the expected seq. send NAK (ack=7)

A_input: got ACK (ack=7)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

A_timerinterrupt: resend packet (seq=8): hhhhhhhhhhhhhhhhhhhh

A_timerinterrupt: resend packet (seq=9): iiiiiiiiiiiiiiiiiiii

A_timerinterrupt: resend packet (seq=10): jjjjjjjjjjjjjjjjjjjj

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=7)

B_input: packet corrupted. send NAK (ack=7)

A_input: packet corrupted. drop.

A_input: got NAK (ack=7). drop.

B_input: packet corrupted. send NAK (ack=7)

B_input: packet corrupted. send NAK (ack=7)

A_timerinterrupt: resend packet (seq=8): hhhhhhhhhhhhhhhhhhhh

A_timerinterrupt: resend packet (seq=9): iiiiiiiiiiiiiiiiiiii

A_timerinterrupt: resend packet (seq=10): jjjjjjjjjjjjjjjjjjjj

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=7). drop.

B_input: not the expected seq. send NAK (ack=7)

A_input: packet corrupted. drop.

B_input: packet corrupted. send NAK (ack=7)

A_input: got NAK (ack=7). drop.

A_timerinterrupt: resend packet (seq=8): hhhhhhhhhhhhhhhhhhhh

A_timerinterrupt: resend packet (seq=9): iiiiiiiiiiiiiiiiiiii

A_timerinterrupt: resend packet (seq=10): jjjjjjjjjjjjjjjjjjjj

A_timerinterrupt: timer + 15.000000

A_input: packet corrupted. drop.

A_input: got NAK (ack=7). drop.

B_input: not the expected seq. send NAK (ack=7)

B_input: packet corrupted. send NAK (ack=7)

B_input: recv packet (seq=8): hhhhhhhhhhhhhhhhhhh

B_input: send ACK (ack=8)

A_input: packet corrupted. drop.

B_input: recv packet (seq=9): iiiiiiiiiiiiiiiiiii

B_input: send ACK (ack=9)

B_input: recv packet (seq=10): jjjjjjjjjjjjjjjjjjj

B_input: send ACK (ack=10)

A_input: got NAK (ack=7). drop.

A_timerinterrupt: resend packet (seq=8): hhhhhhhhhhhhhhhhhhh

A_timerinterrupt: resend packet (seq=9): iiiiiiiiiiiiiiiiiii

A_timerinterrupt: resend packet (seq=10): jjjjjjjjjjjjjjjjjjj

A_timerinterrupt: timer + 15.000000

A_input: got NAK (ack=7). drop.

A_input: got ACK (ack=8)

Warning: attempt to start a timer that is already started

A_input: timer + 15.000000

B_input: not the expected seq. send NAK (ack=10)

A_input: packet corrupted. drop.

B_input: not the expected seq. send NAK (ack=10)

A_timerinterrupt: resend packet (seq=9): iiiiiiiiiiiiiiiiiii

A_timerinterrupt: resend packet (seq=10): jjjjjjjjjjjjjjjjjjj

A_timerinterrupt: timer + 15.000000

B_input: not the expected seq. send NAK (ack=10)

A_input: got ACK (ack=10)

A_input: stop timer

A_input: got NAK (ack=10). drop.

B_input: packet corrupted. send NAK (ack=10)

A_input: got NAK (ack=10). drop.

B_input: not the expected seq. send NAK (ack=10)

B_input: packet corrupted. send NAK (ack=10)

A_input: got NAK (ack=10). drop.

B_input: not the expected seq. send NAK (ack=10)

A_input: packet corrupted. drop.

B_input: not the expected seq. send NAK (ack=10)

A_input: got NAK (ack=10). drop.

B_input: not the expected seq. send NAK (ack=10)

B_input: packet corrupted. send NAK (ack=10)

B_input: packet corrupted. send NAK (ack=10)

A_input: packet corrupted. drop.

A_input: packet corrupted. drop.

A_input: packet corrupted. drop.

A_input: got NAK (ack=10). drop.

A_input: got NAK (ack=10). drop.

A_input: got NAK (ack=10). drop.

Simulator terminated at time 227.009552

after sending 10 msgs from layer5