Enter the number of messages to simulate: Packet loss probability [enter number between 0.0 and 1.0]: Packet corruption probability [0.0 for no corruption]: Packet out-of-order probability [0.0 for no out-of-order]: Average time between messages from sender's layer5 [> 0.0]: Enter Level of tracing desired: Do you want actions randomized: (1 = yes, 0 = no)? Do you want Bidirectional: (1 = yes, 0 = no)? Input parameters: Number of Messages = 100 Lost Packet Prob. = 0.000 Corrupt Packet Prob. = 0.000 Out Of Order Prob. = 0.000 Ave. time between messages = 1000.00 Trace level = 0 Randomize = 0 Bi-directional = 0

```
A:
      1080.0336,
                  Layer 5 to 4 Message = !fEVhy->Pbs'2J3m~2DU
В:
      1088.3078,
                 Layer 4 to 5 Message = !fEVhy->Pbs'2J3m~2DU
A:
      1204.7785,
                 Layer 5 to 4 Message = \#\#i.Qt9]!Eh-Ps8[~Dq,
      1223.5961,
                 Layer 4 to 5 Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
В:
                 Layer 5 to 4 Message = $X$d:oFzQ(]3h>sJ~U,a
      1653.7829,
A:
      1677.5376, Layer 4 to 5
В:
                                Message = $X$d:oFzQ(]3h>sJ~U,a
A:
      1835.7455,
                 Layer 5 to 4
                                Message = %kS%R:\#iQ9!hP8~q07
В:
      1849.0348,
                 Layer 4 to 5
                               Message = %kS%$jR:#iQ9!hP8~g07
      2371.0866,
                 Α:
      2390.6989, Layer 4 to 5 Message = \&\wq&e XRLF?93-'~xrl
В:
      2409.3401,
                 Layer 5 to 4 Message = '2=IT'kv$x:FQ]hs\sim,7C
                               Message = '2=IT'kv$x:FQ]hs\sim,7C
B:
      2411.2992,
                 Layer 4 to 5
      3967.4124,
                 Layer 5 to 4
                                Message = (Eb \sim = Z (6SpxLi (Eb \sim = Zw))
A:
                 Layer 4 to 5
В:
      3996.5436,
                                Message = (Eb \sim = Z (6SpxLi (Eb \sim = Zw))
      5695.2777,
                 Layer 5 to 4
                                Message = dW(V'U\&) %S$R2Q!P~O}N
A:
                 Layer 4 to 5
B:
      5725.4583,
                                Message = dW(V'U\&) %S$R2Q!P~O}N
      6789.8469,
                 Layer 5 to 4
                                Message = *jL.nP2r*6vX:z]>~aC%
A:
B:
      6808.5132, Layer 4 to 5
                                Message = *jL.nP2r*6vX:z]>~aC%
A:
      8601.9736, Layer 5 to 4
                                Message = +fpdWK>2&+k RF3-~rfY
      8609.1710, Layer 4 to 5
                                Message = +fpdWK>2&+k RF3-~rfY
B:
     10392.1991,
                 Layer 5 to 4
                                Message = ,16;AFKPUZ,ejoty~&+0
A :
     10393.2031,
                 Layer 4 to 5
                                Message = ,16;AFKPUZ,ejoty~&+0
В:
A:
     10597.3988,
                 Layer 5 to 4
                                Message = -DZq*AWn'=T-$:Qh~7Ne
                 Layer 4 to 5
B:
     10623.9955,
                                Message = -DZq*AWn'=T-$:Qh~7Ne
                               Message = .V~Iq;d.V~Iq.d.V~Iq;
     10677.1588,
                 Layer 5 to 4
A:
B:
     10703.7936,
                 Layer 4 to 5
                               Message = .V~Iq;d.V~Iq.d.V~Iq;
A:
     11691.5139,
                 Layer 5 to 4
                                Message = xiE~Z6pL(b=wSxiE~Z6p
     11701.4170,
                 Layer 4 to 5
                                Message = xiE~Z6pL(b=wSxiE~Z6p
В:
     12599.1338,
                 Layer 5 to 4
                                Message = d\{iVD1|jWE2\}2X03\sim1YG
A:
                                Message = d\{iVD1|jWE2\}2X03\sim1YG
B:
     12605.7082,
                 Layer 4 to 5
                 Layer 5 to 4
                                Message = 10x.-,+*) ('&%$\$1~}|{
A:
     14595.4557,
В:
     14620.7627,
                 Layer 4 to 5
                                Message = 10x.-,+*) ('&%$#1~}|{
A:
     15241.1113,
                 Layer 5 to 4
                                Message = 2CSdt'7HXiy, <M^n21BR</pre>
                 Layer 4 to 5
     15271.8034,
                                Message = 2CSdt'7HXiy, <M^n21BR</pre>
В:
A:
     17069.6050,
                 Layer 5 to 4
                                Message = 3Uw; ^!Df*Ln2Tv:]~3e)
     17094.2012,
                 Layer 4 to 5
                                Message = 3Uw;^!Df*Ln2Tv:]~3e)
В:
A:
     17917.2955,
                 Layer 5 to 4
                                Message = 4f=qGzP&Yxc8lB3K~T4^
                 Layer 4 to 5
                                Message = 4f=qGzP&Yxc8lB3K~T4^
     17942.2117,
В:
                 Layer 5 to 4
                                Message = 5zbIOu]D+pW>&kR9~fM5
     18571.9030,
A:
     18594.0958,
                 Layer 4 to 5
                                Message = 5zbIOu]D+pW>&kR9~fM5
A:
     19805.2712,
                 Layer 5 to 4
                                Message = 6x(~wpibZSLE=6x(~wpi
                                Message = 6x(~wpibZSLE=6x(~wpi
B:
     19821.8210,
                 Layer 4 to 5
     21001.9153,
                 Layer 5 to 4
                                Message = d7LVaku!,6AK2`jt~+5?
A:
                 Layer 4 to 5
B:
     21029.2532,
                                Message = d7LVaku!,6AK2`jt~+5?
     21593.4219,
                 Layer 5 to 4
                                Message = 8T8.Jf$?[w5Qm+Gc~<Xt
A:
     21613.8933, Layer 4 to 5
                               Message = 8T8.Jf?[w5Qm+Gc~<Xt
B:
     22655.4613, Layer 5 to 4 Message = 9g693a0^-Z*W'T$Q~N{K
A:
```

```
22666.5777, Layer 4 to 5 Message = 9g693a0^-Z*W'T$Q~N\{K\}
B:
                            Layer 5 to 4 Message = :yZ;:[<{]=|^>}_?~`A!
A:
        23510.0001,
                            Layer 5 to 4 Message = ;.~qd;I;.~qdVI;.~qdV
        23520.2472,
A:
        23521.4004, Layer 4 to 5 Message = :yZ;:[<{]=|^>}_?^A!
B:
В:
        23531.9705, Layer 4 to 5 Message = ;.~qd;I;.~qdVI;.~qdV
        23652.4312, Layer 5 to 4 Message = \langle AEIMQ \langle Y^bfjnrvz^* \rangle -
A:
        23667.1036, Layer 4 to 5 Message = \langle AEIMQ \langle Y^bfjnrvz \sim 8 \rangle -
B:
       23781.1731, Layer 5 to 4 Message = =fi\sim6Lb=xEZp(=3i\sim6Lb
A:
В:
        23805.8496, Layer 4 to 5 Message = =fi\sim6Lb=xEZp(=3i\sim6Lb
        25506.1430, Layer 5 to 4 Message = dfxV}Gn7>(Ov2g0W~Ho8
A:
                            Layer 4 to 5 Message = dfxV}Gn7>(Ov2g0W~Ho8
        25530.3311,
B:
        26639.8789, Layer 5 to 4
                                                    Message = ?xS.gBzU0?D|W2kF~Y4m
A:
        26660.8227, Layer 4 to 5 Message = 2xS.gBzU0?D|W2kF\sim Y4m
B:
A:
        28575.8752, Layer 5 to 4 Message = A-wdP<)s`LA%o[H4~kWD
        28589.0429, Layer 4 to 5 Message = A-wdP<)s`LA%o[H4~kWD
В:
A:
        30053.8982, Layer 5 to 4 Message = B?=;97531x-B)'%=/2x
        30057.6330, Layer 4 to 5 Message = B?=;97531x-B)'%\#\sim|zx
В:
Printing the contents of the Simulation Event Q
Event Time = 30208.157 A: LAYER 5
Event Time = 30553.898 A: Timer
Printing the contents of the Simulation Event Q
        30208.1568, Layer 5 to 4 Message = CRbq#2BQap!1CP`o~0?0
Printing the contents of the Simulation Event Q
Event Time = 30708.157 A: Timer
Event Time = 30880.762 A: LAYER 5
B:
        30225.3876,
                            Layer 4 to 5 Message = CRbq#2BQap!1CP`o~0?0
        30880.7619, Layer 5 to 4 Message = De(Ij-No2St7XD<^{R})
A:
        30905.6444, Layer 4 to 5 Message = De(Ij-No2St7XD<^~Bc&
B:
        31368.8179, Layer 5 to 4 Message = EwL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL) )))
A:
        31399.8179, Layer 4 to 5 Message = EwL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL) )))
B:
A:
        31673.4868, Layer 5 to 4 Message = d,pV<\#gM3w^D2nTF\sim eK1
B:
        31688.5241, Layer 4 to 5 Message = d,pV<\#gM3w^D2nTF\sim eK1
        32135.1752, Layer 5 to 4 Message = Gf6.&{skcZRJB93)Gvnf
A:
        32151.0083, Layer 4 to 5 Message = Gf6.&{skcZRJB93)Gvnf
B:
        33205.0034, Layer 5 to 4 Message = HQZdmv!+4=GPYclu~H3<
A:
        33234.4149, Layer 4 to 5 Message = HQZdmv!+4=GPYclu~H3<
B:
        35031.7987, Layer 5 to 4 Message = Id~; Vq.Id~; Vq.Id~; Iq
A :
        35058.0842, Layer 4 to 5 Message = Id~; Vq.Id~; Vq.Id~; Iq
B:
        35689.8285, Layer 5 to 4
A:
                                                     Message = JvEq?l:q5b0]+W&R~MyJ
                                                    Message = JvEq?l:g5b0]+W&R~MyJ
B:
        35714.8736, Layer 4 to 5
A:
        35719.8396, Layer 5 to 4 Message = K+iI)gG'eE%cC#aA~ >|
В:
        35747.2011, Layer 4 to 5 Message = K+iI)gG'eE%cC#aA~ >|
A:
        36994.7240, Layer 5 to 4 Message = LLx~pbSE6(wiZL=x~pbS
        37014.4906, Layer 4 to 5 Message = LLx~pbSE6(wiZL=x~pbS
B:
        38855.9163, Layer 5 to 4 Message = dPMVY] `cfilo2ux{~$'*
A:
        38870.7000, Layer 4 to 5 Message = dPMVY] `cfilo2ux{~$'*
В:
        39841.0647, Layer 5 to 4 Message = NcwNCWl#7Lau, AUj~5J
A:
        39868.2881, Layer 4 to 5 Message = NcwNCWl#7Lau, AUj~5J
B:
A:
        41822.7274, Layer 5 to 4 Message = Ou=dORxAgxU{Dj2X~Gm5
        41850.0127, Layer 4 to 5 Message = Ou=dORxAgxU{Dj2X~Gm5
B:
        42051.0600, Layer 5 to 4 Message = Pfb;sP' 8pJ$[53G~X2j
A:
       42078.6475, Layer 4 to 5 Message = Pfb;sP' 8pJ$[53G~X2j
B:
       42806.7383, Layer 5 to 4 Message = Q<(q]HQ|hS>*s J5~jUA
A :
       42836.6015, Layer 4 to 5 Message = Q<(q]HQ|hS>*s J5~jUA
B:
```

```
42959.2816, Layer 5 to 4 Message = ROLIFC?R9630-*'$\sim {xu}
A:
                 Layer 4 to 5 Message = ROLIFC?R9630-*'$~{xu
В:
     42978.6605,
                 Layer 5 to 4 Message = Sbp~x=LZSw(6ESbp~x=L
     43613.2632,
A:
                 Layer 4 to 5 Message = Sbp~x=LZSw(6ESbp~x=L
B:
     43637.0315,
    44385.1515, Layer 5 to 4 Message = dt6Vv8Xx:Tz<2|> ~Aa#
A:
    44395.4744, Layer 4 to 5 Message = dt6Vv8Xx:Tz<2|> ~Aa#
B:
A:
    44725.3154, Layer 5 to 4 Message = U)Z.`3e8j=UCtHyM~R&W
    44732.4831, Layer 4 to 5 Message = U) Z.`3e8j=UCtHyM~R&W
В:
A:
    46707.0192, Layer 5 to 4 Message = V; ~dI.qV; ~dV.qV; ~dI.
    46737.3566, Layer 4 to 5 Message = V;~dI.qV;~dV.qV;~dI.
B:
                 Layer 5 to 4
    48621.2506,
                                Message = WNE; 2) } tkbXOW<3*~ulc</pre>
A:
     48646.9783, Layer 4 to 5
                                Message = WNE;2) }tkbXOW<3*~ulc</pre>
B:
    49419.3024, Layer 5 to 4
                                Message = Xaiqy$,4<EMU^Xnv~)19</pre>
Α:
B:
    49445.7867, Layer 4 to 5 Message = Xaiqy$,4<EMU^Xnv~)19
A:
    49566.3655, Layer 5 to 4 Message = YfxIc|8R1(B[u1Ye^{-1}Tn)
В:
    49589.6528, Layer 4 to 5 Message = YfxIc|8R1(B[u1Ye^{-1}Tn)
    49775.4149, Layer 5 to 4 Message = Z(S~LwEp=i6bxZ(Z~LwE
A:
    49788.0581, Layer 4 to 5 Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE)
В:
     50395.1598, Layer 5 to 4 Message = d:wV5rQ0mL+h2&cB[^<y]
A:
     50405.0714, Layer 4 to 5
                                Message = d:wV5rQ0mL+h2&cB[^<y</pre>
     51455.7825, Layer 5 to 4 Message = ]M=.|m^N>x}n O?0~]`P
Α:
    51476.6361, Layer 4 to 5 Message = ]M=.|m^N>x\}n O?0~]`P
B:
    51636.9706, Layer 5 to 4 Message = ^{\circ}bdfhjlnprtvxz|^{-}#^{\circ}
A:
    51649.6869, Layer 4 to 5 Message = ^`bdfhjlnprtvxz|~#^'
В:
     51900.2739, Layer 5 to 4 Message = r(;Ocv,?Sgz0DWk~4H
A:
    51907.4675, Layer 4 to 5 Message =
                                           r(;Ocv,?SgzODWk~4H
В:
     52422.9955, Layer 5 to 4 Message = \'Lq8^\%Jo6[\#Hm4Y~Fk2
A:
                                Message = `'Lq8^%Jo6[#Hm4Y~Fk2
     52449.2545, Layer 4 to 5
B:
     53262.2683, Layer 5 to 4
                                Message = aapI!X1hAwP) `8oH~W0g
A:
     53268.8232, Layer 4 to 5 Message = aapI!X1hAwP) `80H~W0g
B:
    54420.5133, Layer 5 to 4 Message = bLb~iS=(pZExwbL6~iS=
A:
B:
    54443.0387, Layer 4 to 5 Message = bLb \sim iS = (pZExwbL6 \sim iS =
    54942.8125, Layer 5 to 4 Message = dfZcRNJFB=952-3%~zvr
A:
     54947.9760, Layer 4 to 5 Message = dfZcRNJFB=952-3%~zvr
B:
     55546.8423, Layer 5 to 4 Message = dq~.dIVdq~.;IVdq~.;I
A:
     55567.4378, Layer 4 to 5 Message = dq~.dIVdq~.;IVdq~.;I
Printing the contents of the Simulation Event Q
Event Time = 55771.225 A: LAYER 5
Event Time = 56046.842 A: Timer
Printing the contents of the Simulation Event Q
     55771.2250, Layer 5 to 4 Message = e\&Ed%ec$Cb\#Ba!A`~?}
Printing the contents of the Simulation Event Q
Event Time = 56133.825 A: LAYER 5
Event Time = 56271.225 A: Timer
     55795.4980, Layer 4 to 5 Message = e\&Ed%ec$Cb\#Ba!A^{\circ} }
В:
     56133.8250, Layer 5 to 4 Message = f8i;l>fBrEuHxK\{N\simQ\T
A:
                 Layer 4 to 5
     56142.1432,
                                Message = f8i;l>fBrEuHxK{N~Q$T
                 Layer 5 to 4 Message = gKxqU9{gD(jN2tX<~cG+
A:
     58069.2442,
     58071.1842,
B:
                 Layer 4 to 5 Message = gKxqU9{gD(jN2tX<~cG+
     58217.8614, Layer 5 to 4 Message = h^SI>4*hi TJ?5+~tj`
Α:
     58233.5178, Layer 4 to 5 Message = h^SI>4*}hi TJ?5+~tj`
B:
    58408.7258, Layer 5 to 4 Message = ipw \sim (x6=EiSZbipw \sim (x6
A :
    58435.6865, Layer 4 to 5 Message = ipw~(x6=EiSZbipw~(x6
B:
    59863.5177, Layer 5 to 4 Message = d=Vo*C[txja24Mf~9Rk
A:
```

```
Layer 4 to 5 Message = d%=Vo*C[txja24Mf~9Rk
B:
     59876.8852,
                                Message = k7b.X\%OyFp<k3^*T~KuB
A:
     61402.4118,
                  Layer 5 to 4
     61409.9588,
                 Layer 4 to 5
                                Message = k7b.X\%OyFp< k3^*T\sim KuB
В:
                 Layer 5 to 4
A:
     63221.5250,
                                Message = lf(dB)[9uS1ml)3C~]:v
     63233.7366,
                 Layer 4 to 5
                                Message = lf(dB)[9uS1ml)3C~]:v
В:
                 Layer 5 to 4 Message = m]L;+xhWG6&scmB1~n^M
     64455.4027,
A:
B:
     64470.4430,
                 Layer 4 to 5 Message = m]L; +xhWG6&scmB1~n^M
                 Layer 5 to 4 Message = nopgrstuvwxyz{n}~!#$
A:
     65505.9601,
                                Message = nopqrstuvwxyz{n}~!#$
В:
     65533.3847,
                 Layer 4 to 5
     66067.1454,
                 Layer 5 to 4
A:
                                Message = 0$6I[n#5HZm!4GYo~3FX
                  Layer 4 to 5
B:
     66095.6289,
                                Message = 0$6I[n#5HZm!4GYo~3FX
     66558.9714,
                 Layer 5 to 4
A:
                                Message = p6Z~EixSw=b(Lp6ZpEix
     66580.8956,
                                Message = p6Z~EixSw=b(Lp6ZpEix
                 Layer 4 to 5
B:
     68221.5810, Layer 5 to 4
                                Message = dI~V.d;qI~V.2;qI~q.d
A:
В:
     68252.3733, Layer 4 to 5
                                Message = dI~V.d;qI~V.2;qI~q.d
A:
     68582.9800, Layer 5 to 4
                                Message = r[E.u H1xbK4{eN7~hr}:
     68613.1737,
                 Layer 4 to 5
                                Message = r[E.u H1xbK4{eN7~hr}:
В:
     70051.1900, Layer 5 to 4
                                Message = snid \overline{Y}TOJE?:50+&~yts
A:
                                Message = snid YTOJE?:50+&~yts
     70071.4560, Layer 4 to 5
B:
                 Layer 5 to 4
A:
     71913.9963,
                                Message = t # x; HTamy (4AMYfr~-9F
В:
     71942.3274, Layer 4 to 5
                                Message = t # x; HTamy (4AMYfr~-9F
     72831.7448, Layer 5 to 4 Message = uuSq10m-Ki)Ge%3a~>]z
A:
                 Layer 4 to 5 Message = uuSq10m-Ki)Ge%3a~>]z
     72853.9621,
В:
     74648.3051,
                 Layer 5 to 4 Message = vHvIxJyKzL{M|N}O~P!Q
A:
     74664.7736, Layer 4 to 5 Message = vHvIxJyKzL\{M|N\}O\sim P!Q
B:
     76357.4828, Layer 5 to 4 Message = wZ=wbE(iLxpS6wZ=\sim bE(
A:
     76385.0428, Layer 4 to 5
В:
                                Message = wZ=wbE(iLxpS6wZ=~bE(
     78317.6868,
                 Layer 5 to 4
                                Message = dmbVx?4) {peY2C7, ~sh]
A:
                 Layer 4 to 5
В:
     78348.1009,
                                Message = dmbVx?4) {peY2C7, ~sh]
A:
     79940.3108, Layer 5 to 4
                                Message = y!(.4yAGMSY`flrx~'-3
     79958.0371, Layer 4 to 5
B:
                                Message = y!(.4yAGMSY`flrx~'-3
A:
     81477.9371, Layer 5 to 4
                                Message = z4Ld{5ze|6Nf}70q~8Ph
     81498.9521,
                                Message = z4Ld{5ze|6Nf}70q~8Ph
В:
                 Layer 4 to 5
     82796.9804,
                 Layer 5 to 4
                                Message = {Gp;e0Y{NwCl7a,U~Js>
Α:
     82798.8246, Layer 4 to 5
                                Message = {Gp;e0Y{NwCl7a,U~Js>
В:
                 Layer 5 to 4
A:
     84103.8075,
                                Message = |Y6qN+fC|Z7rO, qD\sim[8s]
                 Layer 4 to 5
                                Message = |Y6qN+fC|Z7rO,qD\sim[8s]
B:
     84113.8402,
     85337.5220,
                 Layer 5 to 4 Message = }1ZI7&raO},xgUD2~m[J
A:
     85338.9929, Layer 4 to 5 Message = }1ZI7&raO},xgUD2~m[J
B:
                 Layer 5 to 4 Message = ~fDUgx,=Oa~&7I31}1CT
A:
     86629.7796,
     86644.4302,
                 Layer 4 to 5 Message = \sim fDUgx_{,} = 0a \sim \&7I31 \} 1CT
В:
     88377.7678, Layer 5 to 4
                                Message = !3EVhy->Pbs'2J[m~2DU
A:
     88380.9513, Layer 4 to 5
                                Message = !3EVhy->Pbs'2J[m~2DU
B:
                 Layer 5 to 4
     89912.9934,
                                Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
A:
В:
     89931.3952,
                 Layer 4 to 5
                                Message = \#\#i.Qt9]!Eh-Ps8[~Dq,
A:
     91217.9736,
                 Layer 5 to 4
                                Message = $X$d:oFzQ(]3h>sJ~U,a
                 Layer 4 to 5
     91236.2878,
                                Message = $X$d:oFzQ(]3h>sJ~U,a
В:
A:
     92895.3020,
                 Layer 5 to 4
                                Message = %kS%jR:#iQ9!hP8~gO7
     92898.5470, Layer 4 to 5
                                Message = %kS%jR:#iQ9!hP8~gO7
В:
                                Message = &}wq&e XRLF?93-'~xrl
A:
     93549.0307, Layer 5 to 4
     93555.4317,
                 Layer 4 to 5
                                Message = &}wq&e XRLF?93-'~xrl
В:
                 Layer 5 to 4
                                Message = '2=IT'kv$x:FQ]hs\sim,7C
     95043.7176,
A:
                                Message = '2=IT'kv$x:FQ]hs\sim,7C
B:
     95071.3367,
                 Layer 4 to 5
                 Layer 5 to 4
                                Message = (Eb~=Z(6SpxLi(Eb~=Zw
A:
     96052.4554,
     96070.4096, Layer 4 to 5
                                Message = (Eb~=Z(6SpxLi(Eb~=Zw
```

Printing the contents of the Simulation Event Q Event Time = 96552.455 A: Timer Event Time = 96568.025 A: LAYER 5

```
Printing the contents of the Simulation Event Q
     96568.0252, Layer 5 to 4 Message = dW(V'U&)%S$R2Q!P~O}N
Printing the contents of the Simulation Event Q
Event Time = 97068.025 A: Timer
Event Time = 97436.460 A: LAYER 5
B:
     96570.0988, Layer 4 to 5 Message = dW(V'U&)%S$R2Q!P~O}N
     97436.4602, Layer 5 to 4 Message = *fL.nP2r*6vX:z3>~aC% 97465.8697, Layer 4 to 5 Message = *fL.nP2r*6vX:z3>~aC%
A:
B:
Simulator terminated at time 97470.820829
after receiving 100 msgs at layer5
Simulator Analysis:
  Number of messages sent from 5 to 4: 100
  Number of messages received at Layer 5, side A: 0
  Number of messages received at Layer 5, side B: 100
  Number of messages incorrectly received at layer 5: 0
  Number of packets entering the network: 200
  Average number of packets already in network:
  Number of packets that the network lost: 0
  Number of packets that the network corrupted: 0
```

Number of packets that the network put out of order: 0

```
Enter the number of messages to simulate: Packet loss probability [enter
number between 0.0 and 1.0]: Packet corruption probability [0.0 for no
corruption]: Packet out-of-order probability [0.0 for no out-of-order]:
Average time between messages from sender's layer5 [ > 0.0]: Enter Level
of tracing desired: Do you want actions randomized: (1 = yes, 0 = no)? Do
you want Bidirectional: (1 = yes, 0 = no)? Input parameters:
Number of Messages = 100 Lost Packet Prob. =
Corrupt Packet Prob. = 0.000 Out Of Order Prob. = 0.000
Ave. time between messages = 1000.00 Trace level = 4
Randomize = 0 Bi-directional = 0
      1080.0336, Layer 5 to 4 Message = !fEVhy->Pbs'2J3m~2DU
A:
A sending packet with seqnum 0 and checksum 224796
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 224796
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
      1088.3078, Layer 4 to 5 Message = !fEVhy->Pbs'2J3m~2DU
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
      1204.7785, Layer 5 to 4 Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
A sending packet with segnum 1 and checksum 230550
A sending packet to B
B gettin' a packet with segnum 1, and checksum 230550
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
      1223.5961, Layer 4 to 5 Message = ##i.Qt9]!Eh-Ps8[~Dq,
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
      1653.7829, Layer 5 to 4 Message = x0.7820(]3h>sJ~U,a
A sending packet with seqnum 0 and checksum 241262
A sending packet to B
B gettin' a packet with segnum 0, and checksum 241262
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
      1677.5376, Layer 4 to 5 Message = X$d:oFzQ(]3h>sJ~U,a
Setting comp_seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
      1835.7455, Layer 5 to 4 Message = %kS%$jR:#iQ9!hP8~gO7
A sending packet with seqnum 1 and checksum 224122
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 224122
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
      1849.0348, Layer 4 to 5 Message = %kS%$jR:#iQ9!hP8~gO7
B:
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
```

```
Sending next data from the queue!
      A sending packet with seqnum 0 and checksum 249383
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 249383
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
      Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
      2409.3401, Layer 5 to 4 Message = '2=IT'kv$x:FQ]hs\sim,7C
A:
A sending packet with seqnum 1 and checksum 232277
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 232277
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
      2411.2992, Layer 4 to 5 Message = '2=IT'kv$x:FQ]hs~,7C
Setting comp segnum from 1 to 0
Recieved an \overline{ACK/NAK}...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
      3967.4124, Layer 5 to 4 Message = (Eb\sim=Z(6SpxLi(Eb\sim=Zw))
A sending packet with segnum 0 and checksum 259171
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 259171
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
      3996.5436, Layer 4 to 5 Message = (Eb \sim = Z(6SpxLi(Eb \sim = Zw))
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
      5695.2777, Layer 5 to 4 Message = dW(V'U\&) %S$R2Q!P~O}N
A sending packet with seqnum 1 and checksum 228658
A sending packet to B
B gettin' a packet with segnum 1, and checksum 228658
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
      5725.4583, Layer 4 to 5 Message = dW(V'U&)%S$R2Q!P~O}N
Setting comp_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
      6789.8469, Layer 5 to 4 Message = *jL.nP2r*6vX:z]>~aC%
A sending packet with seqnum 0 and checksum 230277
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 230277
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
      6808.5132, Layer 4 to 5 Message = *jL.nP2r*6vX:z]>~aC%
В:
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
```

```
Sending next data from the queue!
      8601.9736, Layer 5 to 4 Message = +fpdWK>2&+k RF3-~rfY
A sending packet with seqnum 1 and checksum 244448
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 244448
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
      8609.1710, Layer 4 to 5 Message = +fpdWK>2&+k RF3-~rfY
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A:
     10392.1991, Layer 5 to 4 Message = ,16;AFKPUZ,ejoty~&+0
A sending packet with seqnum 0 and checksum 230481
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 230481
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     10393.2031, Layer 4 to 5 Message = ,16; AFKPUZ, ejoty~&+0
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     10597.3988, Layer 5 to 4 Message = -DZq*AWn'=T-$:Qh~7Ne
A sending packet with segnum 1 and checksum 228550
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 228550
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     10623.9955, Layer 4 to 5 Message = -DZq*AWn'=T-$:Qh~7Ne
Setting comp\_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
     10677.1588, Layer 5 to 4 Message = .V\sim Iq;d.V\sim Iq.d.V\sim Iq;
A sending packet with seqnum 0 and checksum 244278
A sending packet to B
B gettin' a packet with segnum 0, and checksum 244278
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     10703.7936, Layer 4 to 5 Message = .V~Iq;d.V~Iq.d.V~Iq;
Setting comp_seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     11691.5139, Layer 5 to 4 Message = xiE~Z6pL(b=wSxiE~Z6p
A sending packet with seqnum 1 and checksum 263910
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 263910
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     11701.4170, Layer 4 to 5 Message = xiE~Z6pL(b=wSxiE~Z6p
B:
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
```

```
Sending next data from the queue!
     12599.1338, Layer 5 to 4 Message = d\{iVD1|jWE2\}2X03\sim1YG
A sending packet with seqnum 0 and checksum 238646
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 238646
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     12605.7082, Layer 4 to 5 Message = d\{iVD1|jWE2\}2X03\sim 1YG
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A:
     14595.4557, Layer 5 to 4 Message = 10x.-,+*) ('&\$\$\$1~\}|{
A sending packet with seqnum 1 and checksum 231605
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 231605
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     14620.7627, Layer 4 to 5 Message = 10x.-,+*) ('&%$#1~}|{
Setting comp segnum from 1 to 0
Recieved an \overline{ACK/NAK}...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     15241.1113, Layer 5 to 4 Message = 2CSdt'7HXiy, <M^n21BR
A sending packet with segnum 0 and checksum 214294
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 214294
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     15271.8034, Layer 4 to 5 Message = 2CSdt'7HXiy,<M^n21BR
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     17069.6050, Layer 5 to 4 Message = 3Uw;^!Df*Ln2Tv:]~3e)
A sending packet with seqnum 1 and checksum 227223
A sending packet to B
B gettin' a packet with segnum 1, and checksum 227223
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     17094.2012, Layer 4 to 5 Message = 3Uw;^!Df*Ln2Tv:]~3e)
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     17917.2955, Layer 5 to 4 Message = 4f=qGzP&Yxc8lB3K~T4^
A sending packet with seqnum 0 and checksum 236376
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 236376
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     17942.2117, Layer 4 to 5 Message = 4f=qGzP&Yxc8lB3K~T4^
B:
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
```

```
Sending next data from the queue!
     18571.9030, Layer 5 to 4 Message = 5zbIOu]D+pW>&kR9~fM5
A sending packet with seqnum 1 and checksum 229871
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 229871
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     18594.0958, Layer 4 to 5 Message = 5zbI0u]D+pW>&kR9~fM5
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A:
     19805.2712, Layer 5 to 4 Message = 6x(\sim wpibZSLE=6x(\sim wpi
A sending packet with seqnum 0 and checksum 271514
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 271514
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     19821.8210, Layer 4 to 5 Message = 6x(\sim wpibZSLE=6x(\sim wpi
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     21001.9153, Layer 5 to 4 Message = d7LVaku!,6AK2`jt~+5?
A sending packet with segnum 1 and checksum 219548
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 219548
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     21029.2532, Layer 4 to 5 Message = d7LVaku!,6AK2`jt~+5?
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
     21593.4219, Layer 5 to 4 Message = 8T8.Jf?[w5Qm+Gc~<Xt
A sending packet with seqnum 0 and checksum 252411
A sending packet to B
B gettin' a packet with segnum 0, and checksum 252411
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     21613.8933, Layer 4 to 5 Message = 8T8.Jf$?[w5Qm+Gc~<Xt
Setting comp_seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     22655.4613, Layer 5 to 4 Message = 9g693a0^-Z*W'T$Q~N{K
A sending packet with seqnum 1 and checksum 233163
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 233163
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     22666.5777, Layer 4 to 5 Message = 9g693a0^-Z*W'T$Q~N\{K\}
B:
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
```

```
Sending next data from the queue!
     23510.0001, Layer 5 to 4 Message = :yZ;:[<{]=|^>} ?^{A}!
A sending packet with seqnum 0 and checksum 236594
A sending packet to B
A:
     23520.2472, Layer 5 to 4 Message = ;.~qd;I;.~qdVI;.~qdV
B gettin' a packet with seqnum 0, and checksum 236594
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     23521.4004, Layer 4 to 5 Message = :yZ;:[<{]=|^>} ?^A!
B:
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ;.~qd;I;.~qdVI;.~qdV
A sending packet with seqnum 1 and checksum 256906 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 256906
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     23531.9705, Layer 4 to 5 Message = ;.~qd;I;.~qdVI;.~qdV
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     23652.4312, Layer 5 to 4 Message = \langle AEIMQ \langle Y^bfjnrvz \sim 8 \rangle -
A:
A sending packet with segnum 0 and checksum 240448
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 240448
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     23667.1036, Layer 4 to 5 Message = \langle AEIMQ \langle Y^bfjnrvz \sim 8 \rangle -
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     23781.1731, Layer 5 to 4 Message = =fi\sim6Lb=xEZp(=3i\sim6Lb
A sending packet with seqnum 1 and checksum 237403
A sending packet to B
B gettin' a packet with segnum 1, and checksum 237403
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
\ensuremath{\mathtt{B}} sending message up to layer 5 and updating newest recieved data
     23805.8496, Layer 4 to 5 Message = =fi\sim6Lb=xEZp(=3i\sim6Lb
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     25506.1430, Layer 5 to 4 Message = dfxVGn7>(Ov2g0W~Ho8
A sending packet with segnum 0 and checksum 236974
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 236974
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     25530.3311, Layer 4 to 5 Message = dfxVGn7>(Ov2g0W~Ho8
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
```

```
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 26639.8789, Layer 5 to 4 Message = ?xS.gBzU0?D|W2kF~Y4m
A sending packet with seqnum 1 and checksum 248713
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 248713
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     26660.8227, Layer 4 to 5 Message = ?xS.gBzU0?D|W2kF~Y4m
B:
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     28575.8752, Layer 5 to 4 Message = A-wdP<)s`LA%o[H4~kWD
A sending packet with seqnum 0 and checksum 240733
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 240733
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     28589.0429, Layer 4 to 5 Message = A-wdP<)s`LA%o[H4~kWD
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     30053.8982, Layer 5 to 4 Message = B?=;97531x-B)'\% * |zx
A:
A sending packet with segnum 1 and checksum 242411
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 242411
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     30057.6330, Layer 4 to 5 Message = B?=;97531x-B)'% #~|zx
Setting comp seqnum from 1 to 0
Printing the contents of the Simulation Event Q
Event Time = 30208.157 A: LAYER 5
Event Time = 30553.898 A: Timer
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Printing the contents of the Simulation Event Q
     30208.1568, Layer 5 to 4 Message = CRbq#2BQap!1CP`o~0?0
A sending packet with seqnum 0 and checksum 227535
A sending packet to B
Printing the contents of the Simulation Event Q
Event Time = 30708.157 A: Timer
Event Time = 30880.762 A: LAYER 5
B gettin' a packet with seqnum 0, and checksum 227535
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     30225.3876, Layer 4 to 5 Message = CRbq#2BQap!1CP`o~0?0
Setting comp seqnum from 0 to 1
```

```
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
           30880.7619, Layer 5 to 4 Message = De(Ij-No2St7XD<^{Bc}
A sending packet with seqnum 1 and checksum 225929
 A sending packet to B
B gettin' a packet with seqnum 1, and checksum 225929
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
           30905.6444, Layer 4 to 5 Message = De(Ij-No2St7XD<^~Bc&
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
            31368.8179, Layer 5 to 4 Message = EwL \sim S(Zxb6i=pEEL \sim S(Zxb6i=
A sending packet with seqnum 0 and checksum 234779
 A sending packet to B
B gettin' a packet with segnum 0, and checksum 234779
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
           31399.8179, Layer 4 to 5 Message = EwL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL) )))
B:
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
           31673.4868, Layer 5 to 4 Message = d,pV<\#gM3w^D2nTF\sim eK1
A sending packet with segnum 1 and checksum 235161
 A sending packet to B
B gettin' a packet with seqnum 1, and checksum 235161
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
           31688.5241, Layer 4 to 5 Message = d,pV<#gM3w^D2nTF~eK1
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
           32135.1752, Layer 5 to 4 Message = Gf6.&{skcZRJB93)Gvnf
A:
A sending packet with segnum 0 and checksum 240640
 A sending packet to B
B gettin' a packet with segnum 0, and checksum 240640
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
            32151.0083, Layer 4 to 5 Message = Gf6.&{skcZRJB93)Gvnf
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
           33205.0034, Layer 5 to 4 Message = HQZdmv!+4=GPYclu\sim H3<
A sending packet with seqnum 1 and checksum 235347
 A sending packet to B
B gettin' a packet with seqnum 1, and checksum 235347
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
            33234.4149, Layer 4 to 5 Message = HQZdmv!+4=GPYclu~H3<
Setting comp seqnum from 1 to 0
```

```
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     35031.7987, Layer 5 to 4 Message = Id^{*}; Vq.Id^{*}; Vq.Id^{*}; Iq
A sending packet with seqnum 0 and checksum 253062
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 253062
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     35058.0842, Layer 4 to 5 Message = Id~; Vq.Id~; Vq.Id~; Iq
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     35689.8285, Layer 5 to 4 Message = JvEq?1:q5b0]+W&R\sim MyJ
A sending packet with seqnum 1 and checksum 239595
A sending packet to B
B gettin' a packet with segnum 1, and checksum 239595
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
    35714.8736, Layer 4 to 5 Message = JvEq?1:g5b0]+W&R~MyJ
B:
Setting comp segnum from 1 to 0
     35719.8396, Layer 5 to 4 Message = K+iI)gG'eE%cC#aA~ >|
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: K+iI)gG'eE%cC#aA~ >|
A sending packet with seqnum 0 and checksum 242629 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 242629
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
    35747.2011, Layer 4 to 5 Message = K+iI)gG'eE%cC#aA~ >|
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     36994.7240, Layer 5 to 4 Message = LLx~pbSE6(wiZL=x~pbS
A sending packet with segnum 1 and checksum 271937
A sending packet to B
B gettin' a packet with segnum 1, and checksum 271937
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     37014.4906, Layer 4 to 5 Message = LLx~pbSE6(wiZL=x~pbS
B:
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     38855.9163, Layer 5 to 4 Message = dPMVY] `cfilo2ux{~$'*
A sending packet with seqnum 0 and checksum 235666
A sending packet to B
B gettin' a packet with segnum 0, and checksum 235666
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     38870.7000, Layer 4 to 5 Message = dPMVY] `cfilo2ux{~$'*}
```

```
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     39841.0647, Layer 5 to 4 Message = NcwNCWl#7Lau, AUj~5J
A sending packet with seqnum 1 and checksum 240435
A sending packet to B
B gettin' a packet with segnum 1, and checksum 240435
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     39868.2881, Layer 4 to 5 Message = NcwNCWl#7Lau, AUj~5J
Setting comp\_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     41822.7274, Layer 5 to 4 Message = Ou=dORxAgxU{Dj2X~Gm5
A sending packet with seqnum 0 and checksum 251939
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 251939
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     41850.0127, Layer 4 to 5 Message = Ou=dORxAqxU{Dj2X~Gm5
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     42051.0600, Layer 5 to 4 Message = Pfb;sP' 8pJ$[53G~X2j
A sending packet with seqnum 1 and checksum 226654
A sending packet to B
B gettin' a packet with segnum 1, and checksum 226654
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
    42078.6475, Layer 4 to 5 Message = Pfb;sP' 8pJ$[53G~X2j
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     42806.7383, Layer 5 to 4 Message = Q<(q]HQ|hS>*s J5~jUA
A sending packet with segnum 0 and checksum 245224
A sending packet to B
B gettin' a packet with segnum 0, and checksum 245224
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     42836.6015, Layer 4 to 5 Message = Q<(q]HQ|hS>*s J5~jUA
B:
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     42959.2816, Layer 5 to 4 Message = ROLIFC?R9630-*'$\sim{xu}
A sending packet with seqnum 1 and checksum 237987
A sending packet to B
B gettin' a packet with segnum 1, and checksum 237987
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     42978.6605, Layer 4 to 5 Message = ROLIFC?R9630-*'$\sim{xu}
```

```
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     43613.2632, Layer 5 to 4 Message = Sbp~x=LZSw (6ESbp~x=L
A sending packet with seqnum 0 and checksum 255707
A sending packet to B
B gettin' a packet with segnum 0, and checksum 255707
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     43637.0315, Layer 4 to 5 Message = Sbp~x=LZSw(6ESbp~x=L
Setting comp_seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     44385.1515, Layer 5 to 4 Message = dt6Vv8Xx:Tz<2|> ~Aa#
A sending packet with seqnum 1 and checksum 233325
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 233325
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     44395.4744, Layer 4 to 5 Message = dt6Vv8Xx:Tz<2|> ~Aa#
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     44725.3154, Layer 5 to 4 Message = U)Z.`3e8j=UCtHyM~R&W
A sending packet with seqnum 0 and checksum 241259
A sending packet to B
B gettin' a packet with segnum 0, and checksum 241259
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
    44732.4831, Layer 4 to 5 Message = U) Z. `3e8j=UCtHyM~R&W
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     46707.0192, Layer 5 to 4 Message = V;~dI.qV;~dV.qV;~dI.
A sending packet with segnum 1 and checksum 237310
A sending packet to B
B gettin' a packet with segnum 1, and checksum 237310
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     46737.3566, Layer 4 to 5 Message = V; ~dI.qV; ~dV.qV; ~dI.
B:
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     48621.2506, Layer 5 to 4 Message = WNE;2)}tkbXOW<3*~ulc
A sending packet with seqnum 0 and checksum 260253
A sending packet to B
B gettin' a packet with segnum 0, and checksum 260253
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     48646.9783, Layer 4 to 5 Message = WNE;2)}tkbXOW<3*~ulc
```

```
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     49419.3024, Layer 5 to 4 Message = Xaiqy, 4<EMU^Xnv^-)19
A sending packet with seqnum 1 and checksum 224556
A sending packet to B
B gettin' a packet with segnum 1, and checksum 224556
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     49445.7867, Layer 4 to 5 Message = Xaiqy$,4<EMU^Xnv~)19
Setting comp\_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     49566.3655, Layer 5 to 4 Message = YfxIc|8Rl(B[u1Ye^{-1}]Tn)
A sending packet with seqnum 0 and checksum 256225
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 256225
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     49589.6528, Layer 4 to 5 Message = YfxIc|8Rl(B[ulYe^{-1}Tn)
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     49775.4149, Layer 5 to 4 Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE)
A sending packet with seqnum 1 and checksum 257316
A sending packet to B
B gettin' a packet with segnum 1, and checksum 257316
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
    49788.0581, Layer 4 to 5 Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE)
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     50395.1598, Layer 5 to 4 Message = d:wV5rQ0mL+h2&cB[^<y]
A sending packet with segnum 0 and checksum 233664
A sending packet to B
B gettin' a packet with segnum 0, and checksum 233664
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     50405.0714, Layer 4 to 5 Message = d:wV5rQ0mL+h2&cB[^<y
B:
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     51455.7825, Layer 5 to 4 Message = ]M=.|m^N>x}n O?0~]`P
A sending packet with seqnum 1 and checksum 257425
A sending packet to B
B gettin' a packet with segnum 1, and checksum 257425
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     51476.6361, Layer 4 to 5 Message = ]M=.|m^N>x\}n O?0~]`P
```

```
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     51636.9706, Layer 5 to 4 Message = ^\circbdfhjlnprtvxz|^*
A sending packet with seqnum 0 and checksum 271835
A sending packet to B
B gettin' a packet with segnum 0, and checksum 271835
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     51649.6869, Layer 4 to 5 Message = ^`bdfhjlnprtvxz|~#^'
Setting comp_seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     51900.2739, Layer 5 to 4 Message = r(;Ocv,?SgzODWk~4H
A sending packet with seqnum 1 and checksum 245013
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 245013
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     51907.4675, Layer 4 to 5 Message = r(;Ocv,?Sgz0DWk~4H)
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     52422.9955, Layer 5 to 4 Message = \Lq8^{\gray w}Jo6[#Hm4Y~Fk2
A sending packet with seqnum 0 and checksum 230179
A sending packet to B
B gettin' a packet with segnum 0, and checksum 230179
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
    52449.2545, Layer 4 to 5 Message = \Lq8^{\gray}Jo6[#Hm4Y~Fk2
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     53262.2683, Layer 5 to 4 Message = aapI!X1hAwP)`8oH~W0g
A sending packet with segnum 1 and checksum 242123
A sending packet to B
B gettin' a packet with segnum 1, and checksum 242123
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     53268.8232, Layer 4 to 5 Message = aapI!X1hAwP) `80H~W0g
B:
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     54420.5133, Layer 5 to 4 Message = bLb~iS=(pZExwbL6~iS=
A sending packet with seqnum 0 and checksum 253126
A sending packet to B
B gettin' a packet with segnum 0, and checksum 253126
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     54443.0387, Layer 4 to 5 Message = bLb~iS=(pZExwbL6~iS=
```

```
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     54942.8125, Layer 5 to 4 Message = dfZcRNJFB=952-3%\sim zvr
A sending packet with seqnum 1 and checksum 244124
A sending packet to B
B gettin' a packet with segnum 1, and checksum 244124
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     54947.9760, Layer 4 to 5 Message = dfZcRNJFB=952-3%~zvr
Setting comp\_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     55546.8423, Layer 5 to 4 Message = dq^{.dIV}dq^{.;IV}dq^{.;I}
A sending packet with seqnum 0 and checksum 236340
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 236340
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     55567.4378, Layer 4 to 5 Message = dq \sim .dIVdq \sim .;IVdq \sim .;I
Setting comp seqnum from 0 to 1
Printing the contents of the Simulation Event Q
Event Time = 55771.225 A: LAYER 5
Event Time = 56046.842 A: Timer
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Printing the contents of the Simulation Event Q
     55771.2250, Layer 5 to 4 Message = e\&Ed%ec$Cb\#Ba!A^{\circ}?}
A sending packet with seqnum 1 and checksum 246265
A sending packet to B
Printing the contents of the Simulation Event Q
Event Time = 56133.825 A: LAYER 5
Event Time = 56271.225 A: Timer
B gettin' a packet with seqnum 1, and checksum 246265
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     55795.4980, Layer 4 to 5 Message = e&Ed%ec$Cb#Ba!A`~? }
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     56133.8250, Layer 5 to 4 Message = f8i;1>fBrEuHxK\{N\sim Q\T
A sending packet with seqnum 0 and checksum 248828
A sending packet to B
B gettin' a packet with segnum 0, and checksum 248828
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
```

```
56142.1432, Layer 4 to 5 Message = f8i;1>fBrEuHxK\{N\sim Q\T
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     58069.2442, Layer 5 to 4 Message = gKxqU9\{gD(jN2tX<\sim cG+
A sending packet with seqnum 1 and checksum 231246
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 231246
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     58071.1842, Layer 4 to 5 Message = gKxqU9\{qD(jN2tX<\sim cG+
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     58217.8614, Layer 5 to 4 Message = h^SI>4*hi TJ?5+~tj`
A sending packet with segnum 0 and checksum 256764
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 256764
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     58233.5178, Layer 4 to 5 Message = h^SI>4*hi TJ?5+~tj
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     58408.7258, Layer 5 to 4 Message = ipw \sim (x6=EiSZbipw \sim (x6))
A sending packet with segnum 1 and checksum 261628
A sending packet to B
B gettin' a packet with segnum 1, and checksum 261628
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
    58435.6865, Layer 4 to 5 Message = ipw~(x6=EiSZbipw~(x6
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     59863.5177, Layer 5 to 4 Message = d=Vo*C[txja24Mf~9Rk
A:
A sending packet with segnum 0 and checksum 253043
A sending packet to B
B gettin' a packet with segnum 0, and checksum 253043
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     59876.8852, Layer 4 to 5 Message = d%=Vo*C[txja24Mf~9Rk
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     61402.4118, Layer 5 to 4 Message = k7b.X\%OyFp<k3^*T\sim KuB
A sending packet with seqnum 1 and checksum 243904
A sending packet to B
B gettin' a packet with segnum 1, and checksum 243904
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
```

```
61409.9588, Layer 4 to 5 Message = k7b.X\%OyFp<k3^*T\sim KuB
B:
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     63221.5250, Layer 5 to 4 Message = lf(dB)[9uS1ml)3C^{2}:v
A sending packet with seqnum 0 and checksum 245657
A sending packet to B
B gettin' a packet with segnum 0, and checksum 245657
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     63233.7366, Layer 4 to 5 Message = lf(dB)[9uS1ml)3C~]:v
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     64455.4027, Layer 5 to 4 Message = m]L;+xhWG6\&scmB1~n^M
A sending packet with segnum 1 and checksum 252680
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 252680
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     64470.4430, Layer 4 to 5 Message = m]L;+xhWG6&scmB1~n^M
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     65505.9601, Layer 5 to 4 Message = nopqrstuvwxyz\{n\}~!#$
A sending packet with segnum 0 and checksum 252474
A sending packet to B
B gettin' a packet with segnum 0, and checksum 252474
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
    65533.3847, Layer 4 to 5 Message = nopqrstuvwxyz{n}~!#$
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     66067.1454, Layer 5 to 4 Message = 0\%1[n\#5HZm!4GYo\sim3FX]
A:
A sending packet with segnum 1 and checksum 230503
A sending packet to B
B gettin' a packet with segnum 1, and checksum 230503
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     66095.6289, Layer 4 to 5 Message = 0\%1[n\#5HZm!4GYo\sim3FX]
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     66558.9714, Layer 5 to 4 Message = p6Z~EixSw=b(Lp6ZpEix
A sending packet with seqnum 0 and checksum 263746
A sending packet to B
B gettin' a packet with segnum 0, and checksum 263746
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
```

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66580.8956, Layer 4 to 5 Message = p6Z~EixSw=b(Lp6ZpEix
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     68221.5810, Layer 5 to 4 Message = dI~V.d;qI~V.2;qI~q.d
A sending packet with seqnum 1 and checksum 247003
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 247003
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     68252.3733, Layer 4 to 5 Message = dI~V.d;qI~V.2;qI~q.d
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     68582.9800, Layer 5 to 4 Message = r[E.u H1xbK4{eN7}hr:
A sending packet with segnum 0 and checksum 257\overline{5}27
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 257527
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     68613.1737, Layer 4 to 5 Message = r[E.u H1xbK4{eN7~hr:
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     70051.1900, Layer 5 to 4 Message = snid_YTOJE?:50+&~yts
A sending packet with segnum 1 and checksum 247908
A sending packet to B
B gettin' a packet with segnum 1, and checksum 247908
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
    70071.4560, Layer 4 to 5 Message = snid YTOJE?:50+&~yts
Setting comp_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     71913.9963, Layer 5 to 4 Message = t#x; HTamy(4AMYfr~-9F
A sending packet with segnum 0 and checksum 230371
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 230371
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     71942.3274, Layer 4 to 5 Message = t # x; HTamy(4AMYfr~-9F
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
    72831.7448, Layer 5 to 4 Message = uuSq10m-Ki)Ge%3a~>]z
A sending packet with seqnum 1 and checksum 246619
A sending packet to B
B gettin' a packet with segnum 1, and checksum 246619
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
```

```
72853.9621, Layer 4 to 5 Message = uuSq10m-Ki)Ge%3a~>]z
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     74648.3051, Layer 5 to 4 Message = vHvIxJyKzL\{M|N\}O\sim P!Q
A sending packet with seqnum 0 and checksum 253645
A sending packet to B
B gettin' a packet with segnum 0, and checksum 253645
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     74664.7736, Layer 4 to 5 Message = vHvIxJyKzL\{M|N\}O\sim P!Q
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     76357.4828, Layer 5 to 4 Message = wZ=wbE(iLxpS6wZ=\sim bE(
A sending packet with segnum 1 and checksum 237523
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 237523
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     76385.0428, Layer 4 to 5 Message = wZ=wbE(iLxpS6wZ=~bE(
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     78317.6868, Layer 5 to 4 Message = dmbVx?4) {peY2C7,~sh]
A sending packet with segnum 0 and checksum 252996
A sending packet to B
B gettin' a packet with segnum 0, and checksum 252996
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
    78348.1009, Layer 4 to 5 Message = dmbVx?4) {peY2C7,~sh]
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     79940.3108, Layer 5 to 4 Message = y!(.4vAGMSY`flrx~'-3
A sending packet with segnum 1 and checksum 234261
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 234261
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     79958.0371, Layer 4 to 5 Message = y!(.4yAGMSY`flrx~'-3
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     81477.9371, Layer 5 to 4 Message = z4Ld{5ze|6Nf}70g~8Ph
A sending packet with seqnum 0 and checksum 260618
A sending packet to B
B gettin' a packet with segnum 0, and checksum 260618
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
```

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81498.9521, Layer 4 to 5 Message = z4Ld{5ze|6Nf}70g~8Ph
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     82796.9804, Layer 5 to 4 Message = \{Gp; e0Y\{NwC17a, U\sim Js\}\}
A sending packet with seqnum 1 and checksum 247320
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 247320
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     82798.8246, Layer 4 to 5 Message = {Gp;e0Y{NwCl7a,U~Js>
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     84103.8075, Layer 5 to 4 Message = |Y6qN+fC|Z7r0,gD\sim[8s]
A sending packet with segnum 0 and checksum 252268
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 252268
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     84113.8402, Layer 4 to 5 Message = |Y6qN+fC|Z7rO,qD\sim[8s]
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     85337.5220, Layer 5 to 4 Message = \{1ZI7\&ra0\}, xgUD2\sim m[J]
A sending packet with segnum 1 and checksum 254849
A sending packet to B
B gettin' a packet with segnum 1, and checksum 254849
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
    85338.9929, Layer 4 to 5 Message = }1ZI7&raO},xgUD2~m[J
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     86629.7796, Layer 5 to 4 Message = {\text{-fDUqx}},=Oa{\text{-&7I31}}1CT
A:
A sending packet with segnum 0 and checksum 224715
A sending packet to B
B gettin' a packet with segnum 0, and checksum 224715
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     86644.4302, Layer 4 to 5 Message = \sim fDUgx, = 0a \sim \&7131}1CT
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     88377.7678, Layer 5 to 4 Message = !3EVhy->Pbs'2J[m~2DU
A sending packet with seqnum 1 and checksum 233595
A sending packet to B
B gettin' a packet with segnum 1, and checksum 233595
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
```

```
88380.9513, Layer 4 to 5 Message = !3EVhy->Pbs'2J[m~2DU
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     89912.9934, Layer 5 to 4 Message = \#i.Qt9]!Eh-Ps8[~Dg,
A sending packet with seqnum 0 and checksum 230547
A sending packet to B
B gettin' a packet with segnum 0, and checksum 230547
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     89931.3952, Layer 4 to 5 Message = ##i.Qt9]!Eh-Ps8[~Dq,
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     91217.9736, Layer 5 to 4 Message = X0:oFzQ(]3h>sJ~U,a
A sending packet with segnum 1 and checksum 241265
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 241265
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     91236.2878, Layer 4 to 5 Message = $X$d:oFzQ(]3h>sJ~U,a
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     92895.3020, Layer 5 to 4 Message = kS%jR:#iQ9!hP8~gO7
A sending packet with segnum 0 and checksum 224119
A sending packet to B
B gettin' a packet with segnum 0, and checksum 224119
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
    92898.5470, Layer 4 to 5 Message = %kS%$jR:#iQ9!hP8~g07
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     93549.0307, Layer 5 to 4 Message = & \wq&e XRLF?93-'~xrl
A:
A sending packet with segnum 1 and checksum 249386
A sending packet to B
B gettin' a packet with segnum 1, and checksum 249386
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     93555.4317, Layer 4 to 5 Message = & \ \wq&e XRLF?93-'~xrl
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     95043.7176, Layer 5 to 4 Message = '2=IT'kv$x:FQ]hs^{-},7C
A sending packet with seqnum 0 and checksum 232274
A sending packet to B
B gettin' a packet with segnum 0, and checksum 232274
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
```

```
95071.3367, Layer 4 to 5 Message = '2=IT'kv$x:FQ]hs~,7C
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     96052.4554, Layer 5 to 4 Message = (Eb\sim=Z(6SpxLi(Eb\sim=Zw))
A sending packet with seqnum 1 and checksum 259174
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 259174
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
\ensuremath{\mathtt{B}} sending message up to layer 5 and updating newest recieved data
     96070.4096, Layer 4 to 5 Message = (Eb~=Z(6SpxLi(Eb~=Zw
Setting comp segnum from 1 to 0
Printing the contents of the Simulation Event Q
Event Time = 96552.455 A: Timer
Event Time = 96568.025 A: LAYER 5
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Printing the contents of the Simulation Event Q
     96568.0252, Layer 5 to 4 Message = dW(V'U&)%S$R2Q!P~O}N
A sending packet with segnum 0 and checksum 228655
A sending packet to B
Printing the contents of the Simulation Event Q
Event Time = 97068.025 A: Timer
Event Time = 97436.460 A: LAYER 5
B gettin' a packet with segnum 0, and checksum 228655
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
    96570.0988, Layer 4 to 5 Message = dW(V'U&)%S$R2Q!P~O}N
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     97436.4602, Layer 5 to 4 Message = *fL.nP2r*6vX:z3>~aC%
A sending packet with seqnum 1 and checksum 220814
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 220814
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     97465.8697, Layer 4 to 5 Message = *fL.nP2r*6vX:z3>~aC%
Setting comp seqnum from 1 to 0
Simulator terminated at time 97470.820829
 after receiving 100 msgs at layer5
Simulator Analysis:
  Number of messages sent from 5 to 4: 100
  Number of messages received at Layer 5, side A: 0
  Number of messages received at Layer 5, side B: 100
  Number of messages incorrectly received at layer 5: 0
```

Number of packets entering the network: 200
Average number of packets already in network: 0.000
Number of packets that the network lost: 0

Number of packets that the network corrupted: 0

Number of packets that the network put out of order: 0

```
Enter the number of messages to simulate: Packet loss probability [enter
number between 0.0 and 1.0]: Packet corruption probability [0.0 for no
corruption]: Packet out-of-order probability [0.0 for no out-of-order]:
Average time between messages from sender's layer5 [ > 0.0]: Enter Level
of tracing desired: Do you want actions randomized: (1 = yes, 0 = no)? Do
you want Bidirectional: (1 = yes, 0 = no)? Input parameters:
Number of Messages = 1000 Lost Packet Prob. = 0.300
Corrupt Packet Prob. = 0.300 Out Of Order Prob. = 0.300
Ave. time between messages = 1000.00 Trace level = 4
Randomize = 1 Bi-directional = 0
A:
      1100.6901, Layer 5 to 4 Message = !fEVhy->Pbs'2J3m~2DU
A sending packet with seqnum 0 and checksum 224796
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 224796
Packet Corrupt!
Recieved checksum: 224796, seqnum: 0, acknum: 30976
Recieved packet data is: !fEVh
Expected checksum: 158488
Packet Corrupt!
Recieved checksum: 224796, seqnum: 0, acknum: 30976
Recieved packet data is: !fEVh
Expected checksum: 158488
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 224796 and data !fEVhy->Pbs'2J3m~2DU. corrupted from
A to B, resending
A timed out. Sending packet with segnum 0, and checksum 224796 again
B gettin' a packet with segnum 0, and checksum 224796
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
      1639.2125, Layer 4 to 5 Message = !fEVhy->Pbs'2J3m~2DU
Setting comp_seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
      2399.6691, Layer 5 to 4 Message = ##i.Qt9]!Eh-Ps8[~Dq,
A:
A sending packet with segnum 1 and checksum 230550
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 230550
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
      2418.9827, Layer 4 to 5 Message = ##i.Qt9]!Eh-Ps8[~Dg,
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 164, segnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1175
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 164, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1175
```

```
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 230550 and data \#\#i.Qt9]!Eh-Ps8[\sim Dg,.
B gettin' a packet with seqnum 1, and checksum 230550
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 230550
Not corrupt, but bad sequence number, sending next boi
      3903.5284, Layer 5 to 4 Message = x0.3h>sJ~U,a
A :
A sending packet with seqnum 0 and checksum 241262
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 241262
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
      3919.2426, Layer 4 to 5 Message = $X$d:oFzQ(]3h>sJ~U,a
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
      4259.3737, Layer 5 to 4 Message = kS%jR:#iQ9!hP8~qO7
A sending packet with seqnum 1 and checksum 224122
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 224122
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B:
      4273.3676, Layer 4 to 5 Message = %kS%$jR:#iQ9!hP8~gO7
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, segnum: 1, acknum: 17153
Recieved packet data is: A
Expected checksum: -33640
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 17153
Recieved packet data is: A
Expected checksum: -33640
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 224122 and data %kS%$jR:#iQ9!hP8~gO7.
B gettin' a packet with seqnum 1, and checksum 224122
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 224122 again
B gettin' a packet with seqnum 1, and checksum 224122
Packet Corrupt!
Recieved checksum: 224122, seqnum: 1, acknum: 0
Recieved packet data is: %kS%$jR:#i09!hP8~gQ7
Expected checksum: 224602
Packet Corrupt!
Recieved checksum: 224122, seqnum: 1, acknum: 0
Recieved packet data is: %kS%$jR:#iO9!hP8~gQ7
Expected checksum: 224602
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
```

```
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 5111808
Recieved packet data is:
Expected checksum: -10222758
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 224122
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 5111808
Recieved packet data is:
Expected checksum: -10222758
A: no valid ACK, got instead with corruption. Resending packet with
checksum 224122 and data %kS%$jR:#iQ9!hP8~gO7.
B gettin' a packet with seqnum 1, and checksum 224122
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 224122
Not corrupt, but bad sequence number, sending next boi
      A sending packet with seqnum 0 and checksum 249383
A sending packet to B
B gettin' a packet with segnum 7864320, and checksum 249383
Packet Corrupt!
Recieved checksum: 249383, seqnum: 7864320, acknum: 0
Recieved packet data is: &}wq&e XRLF?93-'~
Expected checksum: 23803463
Packet Corrupt!
Recieved checksum: 249383, segnum: 7864320, acknum: 0
Recieved packet data is: & \ wq&e XRLF?93-'~
Expected checksum: 23803463
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 249383 and data & \ wq&e XRLF?93-'~xrl. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 249383
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
      5992.5873, Layer 4 to 5 Message = & \ wq&e XRLF?93-'~xrl
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 249383 again
A timed out. Sending packet with seqnum 0, and checksum 249383 again
B gettin' a packet with segnum 0, and checksum 249383
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 249383
Not corrupt, but bad sequence number, sending next boi
      7061.5853, Layer 5 to 4 Message = '2=IT'kv$x:FQ]hs^{-},7C
A sending packet with segnum 1 and checksum 232277
```

```
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 232277
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
      7065.4704, Layer 4 to 5 Message = '2=IT'kv$x:FQ]hs~,7C
Setting comp seqnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 232277 again
      7913.3092, Layer 5 to 4 Message = (Eb\sim=Z(6SpxLi(Eb\sim=Zw))
A timed out. Sending packet with segnum 1, and checksum 232277 again
B gettin' a packet with seqnum 1, and checksum 232277
Packet Corrupt!
Recieved checksum: 232277, seqnum: 1, acknum: 2883584
Recieved packet data is: '2=IT'kv$x:FQ]hs~
Expected checksum: -5549147
Packet Corrupt!
Recieved checksum: 232277, seqnum: 1, acknum: 2883584
Recieved packet data is: '2=IT'kv$x:FQ]hs~
Expected checksum: -5549147
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 232277
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: (Eb~=Z(6SpxLi(Eb~=Zw
A sending packet with segnum 0 and checksum 259171 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 259171
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
      8086.1036, Layer 4 to 5 Message = (Eb~=Z(6SpxLi(Eb~=Zw
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 65536, acknum: 0
Recieved packet data is: ACK
Expected checksum: 197539
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 65536. last transmitted seqnum: 0
Last sent packet Checksum: 259171
Packet Corrupt!
Recieved checksum: 929, seqnum: 65536, acknum: 0
Recieved packet data is: ACK
Expected checksum: 197539
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 259171 and data (Eb \sim = Z(6SpxLi(Eb \sim = Zw.)
B gettin' a packet with seqnum 0, and checksum 259171
Packet Corrupt!
Recieved checksum: 259171, segnum: 0, acknum: 0
Recieved packet data is: (E~~=Z(6SpxLi(Ebb=Zw
Expected checksum: 251331
Packet Corrupt!
Recieved checksum: 259171, seqnum: 0, acknum: 0
Recieved packet data is: (E~~=Z(6SpxLi(Ebb=Zw
Expected checksum: 251331
```

```
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 259171 again
B gettin' a packet with seqnum 0, and checksum 259171
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 171
Recieved packet data is: NAK
Expected checksum: 597
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 259171
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 171
Recieved packet data is: NAK
Expected checksum: 597
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 259171 and data (Eb~=Z(6SpxLi(Eb~=Zw.
B gettin' a packet with seqnum 15616, and checksum 259171
Packet Corrupt!
Recieved checksum: 259171, segnum: 15616, acknum: 0
Recieved packet data is: (Eb~=Z(6SpxLi(Eb~
Expected checksum: 286255
Packet Corrupt!
Recieved checksum: 259171, segnum: 15616, acknum: 0
Recieved packet data is: (Eb~=Z(6SpxLi(Eb~
Expected checksum: 286255
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 259171
Not corrupt, but bad sequence number, sending next boi
      9178.4936, Layer 5 to 4 Message = dW(V'U&)%S$R2Q!P~O}N
A sending packet with seqnum 1 and checksum 228658
A sending packet to B
B gettin' a packet with segnum 2686977, and checksum 228658
Packet Corrupt!
Recieved checksum: 228658, seqnum: 2686977, acknum: 0
Recieved packet data is: bW(V'U&
Expected checksum: 8287129
Packet Corrupt!
Recieved checksum: 228658, seqnum: 2686977, acknum: 0
Recieved packet data is: bW(V'U&
Expected checksum: 8287129
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 1308622848
Recieved packet data is:
Expected checksum: 1677722461
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 1308622848
```

```
Recieved packet data is:
Expected checksum: 1677722461
A: no valid ACK, got instead with corruption. Resending packet with
checksum 228658 and data dW(V'U\&) %S$R2Q!P~O}N.
B gettin' a packet with seqnum 1, and checksum 228658
Packet Corrupt!
Recieved checksum: 228658, seqnum: 1, acknum: 0
Recieved packet data is: bW(R'U&)%S$V3Q!P~O}N
Expected checksum: 229337
Packet Corrupt!
Recieved checksum: 228658, seqnum: 1, acknum: 0
Recieved packet data is: bW(R'U&)%S$V3Q!P~O}N
Expected checksum: 229337
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: -1426063359, acknum: 0
Recieved packet data is: NAK
Expected checksum: 16778155
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: -1426063359. last transmitted seqnum: 1
Last sent packet Checksum: 228658
Packet Corrupt!
Recieved checksum: 768, seqnum: -1426063359, acknum: 0
Recieved packet data is: NAK
Expected checksum: 16778155
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 228658 and data dW(V'U\&)%SR2Q!P~O\}N.
B gettin' a packet with segnum 1, and checksum 228658
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
      9259.0196, Layer 4 to 5 Message = dW(V'U&)%S$R2Q!P~O}N
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1258
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1258
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 228658 and data dW(V'U\&) %S$R2Q!P~O}N.
B gettin' a packet with segnum 1, and checksum 3374386
Packet Corrupt!
Recieved checksum: 3374386, seqnum: 1, acknum: 0
Recieved packet data is: bW(V'U&)%S$R Q!P~O}N
Expected checksum: 220713
Packet Corrupt!
Recieved checksum: 3374386, seqnum: 1, acknum: 0
Recieved packet data is: bW(V'U&)%S$R Q!P~O}N
Expected checksum: 220713
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
```

```
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 228658
Not corrupt, but bad sequence number, sending next boi
     10398.7462, Layer 5 to 4 Message = *jL.nP2r*6vX:z]>~aC%
A sending packet with seqnum 0 and checksum 230277
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 230277 again
     11346.8200, Layer 5 to 4 Message = +fpdWK>2&+k RF3-~rfY
A timed out. Sending packet with seqnum 0, and checksum 230277 again
B gettin' a packet with seqnum 0, and checksum 230277
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B:
     11406.4344, Layer 4 to 5 Message = *jL.nP2r*6vX:z]>~aC%
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: A
Expected checksum: 8768
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, segnum: 0, acknum: 1
Recieved packet data is: A
Expected checksum: 8768
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 230277 and data *jL.nP2r*6vX:z] > aC%.
     11454.0974, Layer 5 to 4 Message = ,16;AFKPUZ,ejoty~&+0
A:
     11808.2876, Layer 5 to 4 Message = -DZq*AWn'=T-$:Qh~7Ne
A:
A timed out. Sending packet with segnum 0, and checksum 230277 again
A timed out. Sending packet with segnum 0, and checksum 230277 again
     12682.2400, Layer 5 to 4 Message = .V\sim Iq; d.V\sim Iq. d.V\sim Iq;
A timed out. Sending packet with seqnum 0, and checksum 230277 again
A timed out. Sending packet with seqnum 0, and checksum 230277 again
B gettin' a packet with seqnum 0, and checksum 230277
Packet Corrupt!
Recieved checksum: 230277, seqnum: 0, acknum: 0
Recieved packet data is: *jL.nP2r*:vX6z]>~aC%
Expected checksum: 230001
Packet Corrupt!
Recieved checksum: 230277, seqnum: 0, acknum: 0
Recieved packet data is: *jL.nP2r*:vX6z]>~aC%
Expected checksum: 230001
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 230277
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: +fpdWK>2&+k RF3-~rfY
A sending packet with seqnum 1 and checksum 244448 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 244448
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
```

```
13465.9194, Layer 4 to 5 Message = +fpdWK>2&+k RF3-~rfY
Setting comp seqnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 244448 again
A timed out. Sending packet with seqnum 1, and checksum 244448 again
     14588.7331, Layer 5 to 4 Message = xiE\sim Z6pL(b=wSxiE\sim Z6p
A timed out. Sending packet with seqnum 1, and checksum 244448 again
B gettin' a packet with seqnum 1, and checksum 244448
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 1461
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 244448
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 1461
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 244448 and data +fpdWK>2&+k RF3-~rfY.
B gettin' a packet with seqnum 1, and checksum 244448
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -21592
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 244448
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -21592
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 244448 and data +fpdWK>2&+k RF3-~rfY.
A timed out. Sending packet with seqnum 1, and checksum 244448 again
B gettin' a packet with segnum 1, and checksum 244448
Packet Corrupt!
Recieved checksum: 244448, seqnum: 1, acknum: 0
Recieved packet data is: +rpdWK>2&+k RF3-~ffY
Expected checksum: 240608
Packet Corrupt!
Recieved checksum: 244448, seqnum: 1, acknum: 0
Recieved packet data is: +rpdWK>2&+k RF3-~ffY
Expected checksum: 240608
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 244448
Not corrupt, but bad sequence number, sending next boi
```

```
Data being dequeued: ,16;AFKPUZ,ejoty~&+0
A sending packet with seqnum 0 and checksum 230481 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 230481
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     15553.8887, Layer 4 to 5 Message = ,16;AFKPUZ,ejoty\sim\&+0
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: -DZq*AWn'=T-$:Qh~7Ne
A sending packet with seqnum 1 and checksum 228550 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 228550
Packet Corrupt!
Recieved checksum: 228550, seqnum: 1, acknum: 16640
Recieved packet data is: -DZq*
Expected checksum: 192930
Packet Corrupt!
Recieved checksum: 228550, segnum: 1, acknum: 16640
Recieved packet data is: -DZq*
Expected checksum: 192930
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 228550 again
B gettin' a packet with segnum 1, and checksum 228550
Packet Corrupt!
Recieved checksum: 228550, seqnum: 1, acknum: 0
Recieved packet data is: -DZq*AWQ'=T-$:nh~7Ne
Expected checksum: 233219
Packet Corrupt!
Recieved checksum: 228550, seqnum: 1, acknum: 0
Recieved packet data is: -DZq*AWQ'=T-$:nh~7Ne
Expected checksum: 233219
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 228550 and data -DZq*AWn'=T-$:Qh~7Ne. corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 228550
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     16099.8168, Layer 4 to 5 Message = -DZq*AWn'=T-$:Qh~7Ne
Setting comp seqnum from 1 to 0
     16287.2991, Layer 5 to 4 Message = d{iVD1|jWE2}2X03~1YG
A timed out. Sending packet with seqnum 1, and checksum 228550 again
A timed out. Sending packet with seqnum 1, and checksum 228550 again
    17591.4101, Layer 5 to 4 Message = 10x.-,+*) ('&%$\$1~}|{
A timed out. Sending packet with segnum 1, and checksum 228550 again
B gettin' a packet with seqnum 1, and checksum 31942
Packet Corrupt!
Recieved checksum: 31942, seqnum: 1, acknum: 3
Recieved packet data is: -DZq*AWn'=T-$:Qh~7Ne
Expected checksum: 228544
Packet Corrupt!
Recieved checksum: 31942, seqnum: 1, acknum: 3
```

```
Recieved packet data is: -DZq*AWn'=T-$:Qh~7Ne
Expected checksum: 228544
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 3
Recieved packet data is: NAK
Expected checksum: 930
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 228550
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 3
Recieved packet data is: NAK
Expected checksum: 930
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 228550 and data -DZq*AWn'=T-$:Qh~7Ne.
A timed out. Sending packet with segnum 1, and checksum 228550 again
B gettin' a packet with seqnum 1, and checksum 228550
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 50331816, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 936
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 228550
Packet Corrupt!
Recieved checksum: 50331816, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 936
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 228550 and data -DZq*AWn'=T-$:Qh~7Ne.
B gettin' a packet with seqnum 1, and checksum 228550
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 228550 again
B gettin' a packet with segnum 1, and checksum 228550
Packet Corrupt!
Recieved checksum: 228550, seqnum: 1, acknum: 78
Recieved packet data is: -DZq*AWn'=T-$:Qh~7
Expected checksum: 200236
Packet Corrupt!
Recieved checksum: 228550, segnum: 1, acknum: 78
Recieved packet data is: -DZq*AWn'=T-$:Qh~7
Expected checksum: 200236
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 228550
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: .V~Iq;d.V~Iq.d.V~Iq;
```

```
A sending packet with seqnum 0 and checksum 244278 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 244278
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     18673.7643, Layer 4 to 5 Message = .V~Iq;d.V~Iq.d.V~Iq;
B:
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: xiE~Z6pL(b=wSxiE~Z6p
A sending packet with segnum 1 and checksum 263910 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 263910
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     18691.0173, Layer 4 to 5 Message = xiE\sim Z6pL(b=wSxiE\sim Z6p
Setting comp segnum from 1 to 0
     18709.1322, Layer 5 to 4 Message = 2CSdt'7HXiy, < M^n21BR
     19150.3879, Layer 5 to 4 Message = 3Uw; ^!Df*Ln2Tv:]~3e)
A:
A timed out. Sending packet with seqnum 1, and checksum 263910 again
     19335.3456, Layer 5 to 4 Message = 4f=qGzP&Yxc81B3K~T4^
A timed out. Sending packet with segnum 1, and checksum 263910 again
B gettin' a packet with seqnum 1, and checksum 263910
Packet Corrupt!
Recieved checksum: 263910, seqnum: 1, acknum: 0
Recieved packet data is: xiEZ~6pL(b=wSxiE~Z6p
Expected checksum: 264234
Packet Corrupt!
Recieved checksum: 263910, segnum: 1, acknum: 0
Recieved packet data is: xiEZ~6pL(b=wSxiE~Z6p
Expected checksum: 264234
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 263910
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d{iVD1|jWE2}2X03~1YG
A sending packet with segnum 0 and checksum 238646 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 238646
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     19741.0942, Layer 4 to 5 Message = d{iVD1|jWE2}2X03~1YG
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 238646 again
     20522.4206, Layer 5 to 4 Message = 5zbI0u]D+pW>&kR9~fM5
A timed out. Sending packet with segnum 0, and checksum 238646 again
B gettin' a packet with seqnum 22528, and checksum 238646
Packet Corrupt!
Recieved checksum: 238646, segnum: 22528, acknum: 0
Recieved packet data is: b{iVD1|jWE2}3
Expected checksum: 289149
Packet Corrupt!
```

```
Recieved checksum: 238646, seqnum: 22528, acknum: 0
Recieved packet data is: b{iVD1|jWE2}3
Expected checksum: 289149
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 238646 again
B gettin' a packet with seqnum 0, and checksum 238646
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 238646
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 10x.-,+*) ('&%$\$1~}|{
A sending packet with seqnum 1 and checksum 231605 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 231605 again
B gettin' a packet with seqnum 1, and checksum 231605
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
    21738.5936, Layer 4 to 5 Message = 10x.-,+*) ('&\$\$\$1\^\}|{
Setting comp seqnum from 1 to 0
     21743.0878, Layer 5 to 4 Message = 6x(~wpibZSLE=6x(~wpi
A timed out. Sending packet with seqnum 1, and checksum 231605 again
B gettin' a packet with seqnum 1, and checksum 231605
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 231605 again
B gettin' a packet with segnum 1, and checksum 231605
Packet Corrupt!
Recieved checksum: 231605, seqnum: 1, acknum: 0
Recieved packet data is: 10x.-,+*'() &%$\$1~}|{
Expected checksum: 231685
Packet Corrupt!
Recieved checksum: 231605, seqnum: 1, acknum: 0
Recieved packet data is: 10x.-,+*'() &%$\$\$1~}|{
Expected checksum: 231685
Packet corrupt
Sending bACK a NAK!
     23019.1724, Layer 5 to 4 Message = d7LVaku!, 6AK2`jt~+5?
A timed out. Sending packet with seqnum 1, and checksum 231605 again
B gettin' a packet with seqnum 1, and checksum 231605
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 231605
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 2CSdt'7HXiy, <M^n21BR
A sending packet with seqnum 0 and checksum 214294 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 214294
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
```

```
23235.7233, Layer 4 to 5 Message = 2CSdt'7HXiy, <M^n21BR
Setting comp seqnum from 0 to 1
A timed out. Sending packet with segnum 0, and checksum 214294 again
     23882.7885, Layer 5 to 4 Message = 8T8.Jf?[w5Qm+Gc~<Xt
A timed out. Sending packet with seqnum 0, and checksum 214294 again
B gettin' a packet with seqnum 0, and checksum 214294
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 214294 again
B gettin' a packet with segnum 0, and checksum 214294
Packet Corrupt!
Recieved checksum: 214294, seqnum: 0, acknum: 4325376
Recieved packet data is: 2CSdt'7HXiy, <M^n21
Expected checksum: -8460284
Packet Corrupt!
Recieved checksum: 214294, segnum: 0, acknum: 4325376
Recieved packet data is: 2CSdt'7HXiy, <M^n21
Expected checksum: -8460284
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 214294
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 3Uw;^!Df*Ln2Tv:]~3e)
A sending packet with segnum 1 and checksum 227223 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 227223 again
     25648.8125, Layer 5 to 4 Message = 9g693a0^-Z*W'T$Q~N\{K
A:
     25730.3173, Layer 5 to 4 Message = :yZ;:[\langle \{\}]=|^>\} ?~`A!
A timed out. Sending packet with segnum 1, and checksum 227223 again
B gettin' a packet with seqnum 1560281089, and checksum 227223
Packet Corrupt!
Recieved checksum: 227223, seqnum: 1560281089, acknum: 0
Recieved packet data is: 3Uw;^!Df*Ln2Tv:
Expected checksum: 386079383
Packet Corrupt!
Recieved checksum: 227223, seqnum: 1560281089, acknum: 0
Recieved packet data is: 3Uw;^!Df*Ln2Tv:
Expected checksum: 386079383
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 20829
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 20829
A: no valid ACK, got instead with corruption. Resending packet with
checksum 227223 and data 3Uw; ^!Df*Ln2Tv:]~3e).
B gettin' a packet with segnum 1, and checksum 227223
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
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```
25797.0629, Layer 4 to 5 Message = 3Uw;^!Df*Ln2Tv:]~3e)
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: 4f=qGzP&Yxc8lB3K~T4^
A sending packet with seqnum 0 and checksum 236376 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 236376
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     25830.8776, Layer 4 to 5 Message = 4f=qGzP&Yxc8lB3K~T4^
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: 5zbI0u]D+pW>&kR9~fM5
A sending packet with segnum 1 and checksum 229871 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 229871
Packet Corrupt!
Recieved checksum: 229871, seqnum: 1, acknum: 20992
Recieved packet data is: 5zbI0u]D+pW>&k
Expected checksum: 169437
Packet Corrupt!
Recieved checksum: 229871, segnum: 1, acknum: 20992
Recieved packet data is: 5zbI0u]D+pW>&k
Expected checksum: 169437
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 229871 and data 5zbI0u]D+pW>&kR9~fM5. corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 229871
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     25876.4555, Layer 4 to 5 Message = 5zbI0u]D+pW>&kR9~fM5
В:
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: 6x(~wpibZSLE=6x(~wpi
A sending packet with segnum 0 and checksum 271514 from the queue
A sending packet to B
B gettin' a packet with seqnum 13824, and checksum 271514
Packet Corrupt!
Recieved checksum: 271514, segnum: 13824, acknum: 0
Recieved packet data is: 6x(~wpibZSLE=
Expected checksum: 302402
Packet Corrupt!
Recieved checksum: 271514, segnum: 13824, acknum: 0
Recieved packet data is: 6x(~wpibZSLE=
Expected checksum: 302402
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
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Packet with checksum 271514 and data 6x(\sim pibZSLE=6x(\sim pi. corrupted from picket))
A to B, resending
A timed out. Sending packet with segnum 0, and checksum 271514 again
A timed out. Sending packet with seqnum 0, and checksum 271514 again
B gettin' a packet with seqnum 0, and checksum 271514
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     26939.7860, Layer 4 to 5 Message = 6x(~wpibZSLE=6x(~wpi
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: d7LVaku!, 6AK2`jt~+5?
A sending packet with seqnum 1 and checksum 219548 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 219548 again
B gettin' a packet with seqnum 1, and checksum 219548
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     27453.6232, Layer 4 to 5 Message = d7LVaku!, 6AK2`jt~+5?
Setting comp segnum from 1 to 0
     27581.1531, Layer 5 to 4 Message = ;.~qd;I;.~qdVI;.~qdV
A timed out. Sending packet with segnum 1, and checksum 219548 again
B gettin' a packet with segnum 1, and checksum 219548
Packet Corrupt!
Recieved checksum: 219548, seqnum: 1, acknum: 0
Recieved packet data is: b7LVKku!,6Aa3`jt~+5?
Expected checksum: 222333
Packet Corrupt!
Recieved checksum: 219548, segnum: 1, acknum: 0
Recieved packet data is: b7LVKku!, 6Aa3`jt~+5?
Expected checksum: 222333
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 19461
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 219548
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 19461
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 219548 and data d7LVaku!, 6AK2`jt~+5?.
B gettin' a packet with segnum 1, and checksum 219548
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
     28365.7016, Layer 5 to 4 Message = \langle AEIMQ \langle Y^bfjnrvz \rangle - \langle AEIMQ \langle Y^bfjnrvz \rangle - \langle Y^bfjnrvz \rangle
A timed out. Sending packet with seqnum 1, and checksum 219548 again
B gettin' a packet with segnum 1, and checksum 219548
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
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Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 21736
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 219548
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 21736
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 219548 and data d7LVaku!, 6AK2`jt~+5?.
B gettin' a packet with seqnum 1, and checksum 219548
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 10296
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 219548
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 10296
A: no valid ACK, got instead with corruption. Resending packet with
checksum 219548 and data d7LVaku!, 6AK2`jt~+5?.
B gettin' a packet with seqnum 1, and checksum 219548
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
     28729.4622, Layer 5 to 4 Message = =fi\sim6Lb=xEZp(=3i\sim6Lb
A timed out. Sending packet with segnum 1, and checksum 219548 again
B gettin' a packet with seqnum 1, and checksum 219548
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 219548
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 8T8.Jf$?[w5Qm+Gc~<Xt
A sending packet with seqnum 0 and checksum 252411 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 252411 again
B gettin' a packet with seqnum 0, and checksum 252411
Packet Corrupt!
Recieved checksum: 252411, segnum: 0, acknum: 0
Recieved packet data is: 8T8.Jf$t[w5Qm+Gc~<X?
Expected checksum: 234603
Packet Corrupt!
Recieved checksum: 252411, seqnum: 0, acknum: 0
Recieved packet data is: 8T8.Jf$t[w5Qm+Gc~<X?
Expected checksum: 234603
Packet corrupt
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```
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 252411 and data 8T8.Jf$?[w5Qm+Gc~<Xt. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 252411
Packet Corrupt!
Recieved checksum: 252411, segnum: 0, acknum: 0
Recieved packet data is: 8T8.Jf$+[w5Qm?Gc~<Xt
Expected checksum: 255051
Packet Corrupt!
Recieved checksum: 252411, seqnum: 0, acknum: 0
Recieved packet data is: 8T8.Jf$+[w5Qm?Gc~<Xt
Expected checksum: 255051
Packet corrupt
Sending bACK a NAK!
     29622.7104, Layer 5 to 4 Message = dfxVGn7>(Ov2g0W~Ho8
A timed out. Sending packet with seqnum 0, and checksum 252411 again
B gettin' a packet with segnum 0, and checksum 252411
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     30041.0397, Layer 4 to 5 Message = 8T8.Jf$?[w5Qm+Gc~<Xt
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 956
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, segnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 956
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 252411 and data 8T8.Jf$?[w5Qm+Gc~<Xt.
B gettin' a packet with seqnum 0, and checksum 252411
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 252411
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 9g693a0^-Z*W'T$Q~N{K
A sending packet with seqnum 1 and checksum 233163 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 233163
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
    30111.4997, Layer 4 to 5 Message = 9g693a0^-Z*W'T$Q~N{K
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: :yZ;:[<{]=|^>} ?~`A!
A sending packet with segnum 0 and checksum 236594 from the queue
A sending packet to B
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B gettin' a packet with seqnum 0, and checksum 236594
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     30132.7562, Layer 4 to 5 Message = :yZ;:[<{]=|^>} ?^A!
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ;.~qd;I;.~qdVI;.~qdV
A sending packet with segnum 1 and checksum 256906 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 15401866
Packet Corrupt!
Recieved checksum: 15401866, seqnum: 1, acknum: 0
Recieved packet data is: ;.~qd;I;.~qdVI;.~qdV
Expected checksum: 256906
Packet Corrupt!
Recieved checksum: 15401866, segnum: 1, acknum: 0
Recieved packet data is: ;.~qd;I;.~qdVI;.~qdV
Expected checksum: 256906
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1192
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 256906
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1192
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 256906 and data ;.~qd;I;.~qdVI;.~qdV.
     30359.8262, Layer 5 to 4 Message = ?xS.gBzU0?D|W2kF\sim Y4m
     30416.4425, Layer 5 to 4 Message = A-wdP<)s`LA%o[H4~kWD
A:
A timed out. Sending packet with seqnum 1, and checksum 256906 again
B gettin' a packet with segnum 1, and checksum 256906
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
\ensuremath{\mathtt{B}} sending message up to layer 5 and updating newest recieved data
     30662.4181, Layer 4 to 5 Message = ;.~qd;I;.~qdVI;.~qdV
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: <AEIMQ<Y^bfjnrvz~%)-
A sending packet with segnum 0 and checksum 240448 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 240448
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     30693.6867, Layer 4 to 5 Message = \langle AEIMQ < Y^bfjnrvz \sim % \rangle -
Setting comp segnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 240448 again
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B gettin' a packet with seqnum 0, and checksum 240448
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 240448 again
B gettin' a packet with seqnum 0, and checksum 240448
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 240448
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: =fi~6Lb=xEZp(=3i~6Lb
A sending packet with seqnum 1 and checksum 237403 from the queue
A sending packet to B
     31966.6091, Layer 5 to 4 Message = B?=;97531x-B)'%\#\sim|zx
A timed out. Sending packet with seqnum 1, and checksum 237403 again
B gettin' a packet with seqnum 159, and checksum 196955
Packet Corrupt!
Recieved checksum: 196955, seqnum: 159, acknum: 0
Recieved packet data is: =fi~6Lb=xEZp(=3i~6Lb
Expected checksum: 237877
Packet Corrupt!
Recieved checksum: 196955, segnum: 159, acknum: 0
Recieved packet data is: =fi~6Lb=xEZp(=3i~6Lb
Expected checksum: 237877
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 237403 again
B gettin' a packet with segnum 1, and checksum 237403
Packet Corrupt!
Recieved checksum: 237403, segnum: 1, acknum: 0
Recieved packet data is: Lfi~6=b=xEZp(=3i~6Lb
Expected checksum: 236878
Packet Corrupt!
Recieved checksum: 237403, seqnum: 1, acknum: 0
Recieved packet data is: Lfi~6=b=xEZp(=3i~6Lb
Expected checksum: 236878
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 237403 and data =fi~6Lb=xEZp(=3i~6Lb. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 237403
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     32729.5931, Layer 4 to 5 Message = =fi\sim6Lb=xEZp(=3i\sim6Lb
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dfxV}Gn7>(Ov2g0W~Ho8
A sending packet with segnum 0 and checksum 236974 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 236974
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
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B sending message up to layer 5 and updating newest recieved data
      32746.7388, Layer 4 to 5 Message = dfxV}Gn7>(Ov2g0W~Ho8
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ?xS.gBzU0?D|W2kF~Y4m
A sending packet with segnum 1 and checksum 248713 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 248713
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
       32770.8859, Layer 4 to 5 Message = ?xS.gBzU0?D|W2kF~Y4m
B:
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: A-wdP<)s`LA%o[H4~kWD
A sending packet with segnum 0 and checksum 240733 from the queue
A sending packet to B
       33050.8921, Layer 5 to 4 Message = CRbq#2BQap!1CP`o\sim0?0
A timed out. Sending packet with seqnum 0, and checksum 240733 again
A timed out. Sending packet with segnum 0, and checksum 240733 again
A timed out. Sending packet with segnum 0, and checksum 240733 again
B gettin' a packet with seqnum 0, and checksum 240733
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
       34291.7341, Layer 4 to 5 Message = A-wdP<)s`LA%o[H4~kWD
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: B?=;97531x-B)'%#~|zx
A sending packet with segnum 1 and checksum 242411 from the queue
 A sending packet to B
       34494.1092, Layer 5 to 4 Message = De(Ij-No2St7XD<^{Bc}
A timed out. Sending packet with seqnum 1, and checksum 242411 again
A timed out. Sending packet with seqnum 1, and checksum 242411 again
B gettin' a packet with segnum 1, and checksum 242411
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
       35315.7476, Layer 4 to 5 Message = B?=;97531x-B)'%#~|zx
Setting comp_seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 242411 again
B gettin' a packet with seqnum 1, and checksum 242411
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
       36227.6938, Layer 5 to 4 Message = EwL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL) )))
A timed out. Sending packet with segnum 1, and checksum 242411 again
B gettin' a packet with seqnum 1, and checksum 242411
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 10296
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Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 242411
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 10296
A: no valid ACK, got instead with corruption. Resending packet with
checksum 242411 and data B?=;97531x-B)'%\#\sim|zx.
A timed out. Sending packet with segnum 1, and checksum 242411 again
B gettin' a packet with seqnum 1, and checksum 242411
Packet Corrupt!
Recieved checksum: 242411, seqnum: 1, acknum: 0
Recieved packet data is: B?=79;531x-B)'%\#\sim|zx
Expected checksum: 242491
Packet Corrupt!
Recieved checksum: 242411, seqnum: 1, acknum: 0
Recieved packet data is: B?=79;531x-B)'%#~|zx
Expected checksum: 242491
Packet corrupt
Sending bACK a NAK!
     36938.3056, Layer 5 to 4 Message = d,pV<\#gM3w^D2nTF\sim eK1
A:
A timed out. Sending packet with segnum 1, and checksum 242411 again
A timed out. Sending packet with seqnum 1, and checksum 242411 again
B gettin' a packet with seqnum 1, and checksum 242411
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 242411
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: CRbq#2BQap!1CP`o~0?0
A sending packet with segnum 0 and checksum 227535 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 227535
Packet Corrupt!
Recieved checksum: 227535, seqnum: 0, acknum: 0
Recieved packet data is: CRbq#2pQaB!1CP`o~0?0
Expected checksum: 225189
Packet Corrupt!
Recieved checksum: 227535, seqnum: 0, acknum: 0
Recieved packet data is: CRbq#2pQaB!1CP`o~0?0
Expected checksum: 225189
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 227535 again
     38530.2657, Layer 5 to 4 Message = Gf6.&{skcZRJB93)Gvnf
A timed out. Sending packet with seqnum 0, and checksum 227535 again
B gettin' a packet with segnum 0, and checksum 227535
Packet Corrupt!
Recieved checksum: 227535, segnum: 0, acknum: 97
Recieved packet data is: CRbq#2BQ
Expected checksum: 219484
Packet Corrupt!
Recieved checksum: 227535, segnum: 0, acknum: 97
Recieved packet data is: CRbq#2BQ
Expected checksum: 219484
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Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 227535 again
       39609.8646, Layer 5 to 4 Message = HQZdmv!+4=GPYclu\sim H3<
A timed out. Sending packet with seqnum 0, and checksum 227535 again
B gettin' a packet with seqnum 0, and checksum 227535
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
       39909.2708, Layer 4 to 5 Message = CRbq#2BQap!1CP`o~0?0
B:
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: De(Ij-No2St7XD<^~Bc&
A sending packet with seqnum 1 and checksum 225929 from the queue
 A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 225929 again
B gettin' a packet with segnum 1, and checksum 225929
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
      40447.6664, Layer 4 to 5 Message = De(Ij-No2St7XD<^~Bc&
Setting comp segnum from 1 to 0
       40767.3960, Layer 5 to 4 Message = Id~; Vq.Id~; Iq
A timed out. Sending packet with seqnum 1, and checksum 225929 again
B gettin' a packet with segnum 1, and checksum 225929
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 225929 again
B gettin' a packet with segnum 1, and checksum 225929
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 225929
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: EwL~S(Zxb6i=pEEL~S(Z
A sending packet with segnum 0 and checksum 234779 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 234779
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
       41445.3621, Layer 4 to 5 Message = EwL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL) )))
Setting comp seqnum from 0 to 1
       41449.8954, Layer 5 to 4 Message = JvEq?1:g5b0]+W&R~MyJ
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 16778145, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 931
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 16778145, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 931
```

```
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 234779 and data EwL\sim S(Zxb6i=pEEL\sim S(Z.
A timed out. Sending packet with segnum 0, and checksum 234779 again
     42005.4027, Layer 5 to 4 Message = K+iI) gG'eE%cC#aA~>|
A timed out. Sending packet with seqnum 0, and checksum 234779 again
B gettin' a packet with seqnum 0, and checksum 234779
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 234779
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d,pV<#gM3w^D2nTF~eK1
A sending packet with segnum 1 and checksum 235161 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 235161
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
    42512.5224, Layer 4 to 5 Message = d,pV<#gM3w^D2nTF~eK1
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Gf6.&{skcZRJB93)Gvnf
A sending packet with segnum 0 and checksum 240640 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 240640 again
B gettin' a packet with segnum 0, and checksum 240640
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     43060.3839, Layer 4 to 5 Message = Gf6.&{skcZRJB93}Gvnf
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 843, seqnum: 0, acknum: 1
Recieved packet data is: AC;
Expected checksum: -601
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 843, seqnum: 0, acknum: 1
Recieved packet data is: AC;
Expected checksum: -601
A: no valid ACK, got AC; instead with corruption. Resending packet with
checksum 240640 and data Gf6.&{skcZRJB93)Gvnf.
B gettin' a packet with seqnum 0, and checksum 240640
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 240640
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: HQZdmv!+4=GPYclu~H3<
A sending packet with segnum 1 and checksum 235347 from the queue
 A sending packet to B
```

```
B gettin' a packet with seqnum 1, and checksum 235347
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
\ensuremath{\mathtt{B}} sending message up to layer 5 and updating newest recieved data
     43131.3760, Layer 4 to 5 Message = HQZdmv!+4=GPYclu\sim H3<
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Id~; Vq.Id~; Vq.Id~; Iq
A sending packet with segnum 0 and checksum 253062 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 253062 again
B gettin' a packet with seqnum 0, and checksum 253062
Packet Corrupt!
Recieved checksum: 253062, segnum: 0, acknum: 0
Recieved packet data is: Id~;dq.IV~;Vq.Id~;Iq
Expected checksum: 252278
Packet Corrupt!
Recieved checksum: 253062, seqnum: 0, acknum: 0
Recieved packet data is: Id~;dq.IV~;Vq.Id~;Iq
Expected checksum: 252278
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 253062 and data Id~; Vq.Id~; Vq.Id~; Iq. corrupted from
A to B, resending
B gettin' a packet with seqnum 126, and checksum 253062
Packet Corrupt!
Recieved checksum: 253062, segnum: 126, acknum: 0
Recieved packet data is: Id~; Vg.Id~; Vg.Id
Expected checksum: 217026
Packet Corrupt!
Recieved checksum: 253062, segnum: 126, acknum: 0
Recieved packet data is: Id~; Vq.Id~; Vq.Id
Expected checksum: 217026
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 253062 and data Id~; Vq.Id~; Vq.Id~; Iq. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 253062
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     43723.2275, Layer 4 to 5 Message = Id~; Vq.Id~; Vq.Id~; Iq
B:
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: JvEq?1:q5b0]+W&R~MyJ
A sending packet with seqnum 1 and checksum 239595 from the queue
A sending packet to B
A:
     43956.9604, Layer 5 to 4 Message = LLx~pbSE6(wiZL=x~pbS
A timed out. Sending packet with seqnum 1, and checksum 239595 again
     44588.5037, Layer 5 to 4 Message = dPMVY] `cfilo2ux{~$'*
A timed out. Sending packet with seqnum 1, and checksum 239595 again
B gettin' a packet with seqnum 1, and checksum 239595
```

```
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
\ensuremath{\mathtt{B}} sending message up to layer 5 and updating newest recieved data
    44753.2527, Layer 4 to 5 Message = JvEq?l:g5b0]+W&R~MyJ
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, segnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 13796
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 13796
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 239595 and data JvEq?1:g5b0]+W&R~MyJ.
B gettin' a packet with seqnum 1, and checksum 239595
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 239595 again
A timed out. Sending packet with seqnum 1, and checksum 239595 again
B gettin' a packet with seqnum 1, and checksum 239595
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 239595
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: K+iI)gG'eE%cC#aA~ >|
A sending packet with segnum 0 and checksum 242629 from the queue
A sending packet to B
B gettin' a packet with seqnum 4653056, and checksum 242629
Packet Corrupt!
Recieved checksum: 242629, seqnum: 4653056, acknum: 0
Recieved packet data is: K+iI)g
Expected checksum: 14198318
Packet Corrupt!
Recieved checksum: 242629, seqnum: 4653056, acknum: 0
Recieved packet data is: K+iI)q
Expected checksum: 14198318
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 242629 again
B gettin' a packet with seqnum 0, and checksum 242629
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     46284.9303, Layer 4 to 5 Message = K+iI) gG'eE%cC#aA~ >|
Setting comp segnum from 0 to 1
     46465.6860, Layer 5 to 4 Message = NcwNCWl#7Lau, AUj\sim5J
A timed out. Sending packet with segnum 0, and checksum 242629 again
B gettin' a packet with seqnum 8960, and checksum 242629
Packet Corrupt!
Recieved checksum: 242629, seqnum: 8960, acknum: 0
Recieved packet data is: K+iI)qG'eE%cC
Expected checksum: 262649
Packet Corrupt!
```

```
Recieved checksum: 242629, seqnum: 8960, acknum: 0
Recieved packet data is: K+iI)gG'eE%cC
Expected checksum: 262649
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 242629
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: LLx~pbSE6(wiZL=x~pbS
A sending packet with seqnum 1 and checksum 271937 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 271937
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     46822.7824, Layer 4 to 5 Message = LLx~pbSE6(wiZL=x~pbS
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dPMVY] `cfilo2ux{~$'*
A sending packet with segnum 0 and checksum 235666 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 235666
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     46860.1771, Layer 4 to 5 Message = dPMVY]`cfilo2ux{~$'*
B:
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: NcwNCWl#7Lau, AUj~5J
A sending packet with segnum 1 and checksum 240435 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 240435
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     46898.9316, Layer 4 to 5 Message = NcwNCWl#7Lau, AUj~5J
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     47857.1767, Layer 5 to 4 Message = Ou=dORxAgxU{Dj2X~Gm5
A sending packet with segnum 0 and checksum 251939
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 251939 again
B gettin' a packet with seqnum 0, and checksum 251939
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     48372.7616, Layer 4 to 5 Message = Ou=dORxAgxU{Dj2X~Gm5
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 4390912, acknum: 1
```

```
Recieved packet data is: A
Expected checksum: 13173397
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 4390912. last transmitted seqnum: 0
Last sent packet Checksum: 251939
Packet Corrupt!
Recieved checksum: 929, segnum: 4390912, acknum: 1
Recieved packet data is: A
Expected checksum: 13173397
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 251939 and data Ou=dORxAqxU{Dj2X~Gm5.
B gettin' a packet with seqnum 0, and checksum 251939
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1014
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 251939
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1014
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 251939 and data Ou=dORxAqxU{Dj2X~Gm5.
A timed out. Sending packet with seqnum 0, and checksum 251939 again
B gettin' a packet with segnum 0, and checksum 251939
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 251939
Not corrupt, but bad sequence number, sending next boi
     48935.8965, Layer 5 to 4 Message = Pfb;sP' 8pJ$[53G~X2j
A sending packet with segnum 1 and checksum 226654
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 226654 again
B gettin' a packet with seqnum 1, and checksum 226654
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     49449.6392, Layer 4 to 5 Message = Pfb;sP' 8pJ$[53G~X2j
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, segnum: 1, acknum: 1
Recieved packet data is:
Expected checksum: 17507
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is:
Expected checksum: 17507
```

```
A: no valid ACK, got instead with corruption. Resending packet with
checksum 226654 and data Pfb; sP'_8pJ$[53G~X2j.
B gettin' a packet with seqnum 1, and checksum 226654
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 226654
Not corrupt, but bad sequence number, sending next boi
     50232.6435, Layer 5 to 4 Message = Q<(q]HQ|hS>*s J5~jUA
A sending packet with seqnum 0 and checksum 245224
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 245224
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     50238.2796, Layer 4 to 5 Message = Q<(q]HQ|hS>*s J5~jUA
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     51990.8359, Layer 5 to 4 Message = ROLIFC?R9630-*'$\sim{xu}
A sending packet with seqnum 1 and checksum 237987
A sending packet to B
B gettin' a packet with segnum 1056964609, and checksum 237987
Packet Corrupt!
Recieved checksum: 237987, seqnum: 1056964609, acknum: 0
Recieved packet data is: ROLIFC
Expected checksum: -1123838572
Packet Corrupt!
Recieved checksum: 237987, segnum: 1056964609, acknum: 0
Recieved packet data is: ROLIFC
Expected checksum: -1123838572
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 237987 and data ROLIFC?R9630-*'$~{xu. corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 237987
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     52055.8195, Layer 4 to 5 Message = ROLIFC?R9630-*'^{\circ} xu
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is:
Expected checksum: 13607
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is:
Expected checksum: 13607
A: no valid ACK, got instead with corruption. Resending packet with
checksum 237987 and data ROLIFC?R9630-*'$~{xu.
B gettin' a packet with seqnum 1, and checksum 237987
```

```
Packet Corrupt!
Recieved checksum: 237987, seqnum: 1, acknum: 0
Recieved packet data is: ROLIF{?R9630-*'$~Cxu
Expected checksum: 221859
Packet Corrupt!
Recieved checksum: 237987, seqnum: 1, acknum: 0
Recieved packet data is: ROLIF{?R9630-*'$~Cxu
Expected checksum: 221859
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 237987 again
     52587.3384, Layer 5 to 4 Message = Sbp~x=LZSw(6ESbp~x=L
B gettin' a packet with segnum 1, and checksum 237987
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 237987
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Sbp~x=LZSw(6ESbp~x=L
A sending packet with seqnum 0 and checksum 255707 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 255707
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     52635.0343, Layer 4 to 5 Message = Sbp~x=LZSw(6ESbp~x=L
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     52925.4802, Layer 5 to 4 Message = dt6Vv8Xx:Tz<2|> ~Aa#
A sending packet with segnum 1 and checksum 233325
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 233325
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     52946.8727, Layer 4 to 5 Message = dt6Vv8Xx:Tz<2|> ~Aa#
Setting comp segnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 233325 again
B gettin' a packet with segnum 1, and checksum 233325
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 233325
Not corrupt, but bad sequence number, sending next boi
    53599.3292, Layer 5 to 4 Message = U) Z.`3e8j=UCtHyM~R&W
A sending packet with seqnum 0 and checksum 241259
A sending packet to B
B gettin' a packet with segnum 0, and checksum 241259
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     53619.6041, Layer 4 to 5 Message = U) Z. `3e8j=UCtHyM~R&W
```

```
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 2129
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 2129
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 241259 and data U)Z.^3e8j=UCtHyM\sim R\&W.
B gettin' a packet with segnum 0, and checksum 241259
Packet Corrupt!
Recieved checksum: 241259, segnum: 0, acknum: 6291456
Recieved packet data is: U) Z.
Expected checksum: -12344053
Packet Corrupt!
Recieved checksum: 241259, seqnum: 0, acknum: 6291456
Recieved packet data is: U) Z.
Expected checksum: -12344053
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 241259
Not corrupt, but bad sequence number, sending next boi
     54307.4770, Layer 5 to 4 Message = V;~dI.qV;~dV.qV;~dI.
A:
A sending packet with segnum 1 and checksum 237310
A sending packet to B
B gettin' a packet with segnum 1, and checksum 237310
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     54330.5577, Layer 4 to 5 Message = V;~dI.qV;~dV.qV;~dI.
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     55779.2191, Layer 5 to 4 Message = WNE; 2) } tkbXOW < 3*~ulc
A sending packet with seqnum 0 and checksum 260253
A sending packet to B
B gettin' a packet with seqnum 25344, and checksum 260253
Packet Corrupt!
Recieved checksum: 260253, seqnum: 25344, acknum: 0
Recieved packet data is: WNE; 2) } tkbXOW < 3 *~ul
Expected checksum: 296685
Packet Corrupt!
Recieved checksum: 260253, segnum: 25344, acknum: 0
Recieved packet data is: WNE; 2) } tkbXOW < 3 *~ul
Expected checksum: 296685
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 260253 and data WNE;2)}tkbXOW<3*~ulc. corrupted from
A to B, resending
```

```
55900.5954, Layer 5 to 4 Message = Xaiqy$,4<EMU^Xnv~)19
A timed out. Sending packet with seqnum 0, and checksum 260253 again
B gettin' a packet with seqnum 0, and checksum 260253
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     56305.6269, Layer 4 to 5 Message = WNE;2)}tkbXOW<3*~ulc
В:
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Xaiqy$,4<EMU^Xnv~)19
A sending packet with segnum 1 and checksum 224556 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 224556
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     56314.8529, Layer 4 to 5 Message = Xaiqy$,4<EMU^Xnv~)19
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     56528.5419, Layer 5 to 4 Message = YfxIc|8Rl(B[u1Ye~:Tn
A sending packet with seqnum 0 and checksum 256225
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 256225
Packet Corrupt!
Recieved checksum: 256225, seqnum: 0, acknum: 20992
Recieved packet data is: YfxIc|8
Expected checksum: 208993
Packet Corrupt!
Recieved checksum: 256225, segnum: 0, acknum: 20992
Recieved packet data is: YfxIc|8
Expected checksum: 208993
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 256225 again
B gettin' a packet with seqnum 0, and checksum 256225
Packet Corrupt!
Recieved checksum: 256225, seqnum: 0, acknum: 0
Recieved packet data is: Yfx(c|8RlIB[u1Ye~:Tn
Expected checksum: 258997
Packet Corrupt!
Recieved checksum: 256225, segnum: 0, acknum: 0
Recieved packet data is: Yfx(c|8RlIB[u1Ye~:Tn
Expected checksum: 258997
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 256225 again
     57977.4233, Layer 5 to 4 Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE)
A timed out. Sending packet with seqnum 0, and checksum 256225 again
A timed out. Sending packet with seqnum 0, and checksum 256225 again
A timed out. Sending packet with segnum 0, and checksum 256225 again
B gettin' a packet with seqnum 0, and checksum 256225
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     59056.8332, Layer 4 to 5 Message = YfxIc|8Rl(B[u1Ye~:Tn
B:
Setting comp seqnum from 0 to 1
```

```
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Z(S~LwEp=i6bxZ(Z~LwE
A sending packet with seqnum 1 and checksum 257316 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 257316 again
     59681.1401, Layer 5 to 4 Message = d:wV5rQ0mL+h2&cB[^{<}y
A timed out. Sending packet with segnum 1, and checksum 257316 again
B gettin' a packet with segnum 1, and checksum 257316
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     60084.8082, Layer 4 to 5 Message = Z(S~LwEp=i6bxZ(Z~LwE
B:
Setting comp seqnum from 1 to 0
     60491.7076, Layer 5 to 4 Message = ]M=.|m^N>x\}n O?0~]^P
A timed out. Sending packet with seqnum 1, and checksum 257316 again
     60866.7994, Layer 5 to 4 Message = ^`bdfhjlnprtvxz|~#^'
A: 61015.2327, Layer 5 to 4 Message = _r(;Ocv,?Sgz0DWk\sim4H_ A timed out. Sending packet with seqnum 1, and checksum 257316 again
B gettin' a packet with segnum 1, and checksum 257316
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 257316
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d:wV5rQ0mL+h2&cB[^<y
A sending packet with segnum 0 and checksum 233664 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 233664
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
    61112.7388, Layer 4 to 5 Message = d:wV5rQ0mL+h2&cB[^<y
Setting comp_seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: [M=.[m^N>x]n O?0~] P
A sending packet with segnum 1 and checksum 257425 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 257425
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     61126.1569, Layer 4 to 5 Message = ]M=.|m^N>x\}n O?0~]P
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ^`bdfhjlnprtvxz|~#^'
A sending packet with seqnum 0 and checksum 271835 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 271835
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
```

B sending message up to layer 5 and updating newest recieved data

```
61137.4408, Layer 4 to 5 Message = ^`bdfhjlnprtvxz|~#^'
Setting comp seqnum from 0 to 1
A timed out. Sending packet with segnum 0, and checksum 271835 again
B gettin' a packet with seqnum 0, and checksum 271835
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 271835
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: _r(;Ocv,?Sgz0DWk~4H_
A sending packet with segnum 1 and checksum 245013 from the queue
A sending packet to B
     61733.7026, Layer 5 to 4 Message = \Lq8^{g}Jo6[#Hm4Y~Fk2
A timed out. Sending packet with seqnum 1, and checksum 245013 again
B gettin' a packet with seqnum 1, and checksum 220949
Packet Corrupt!
Recieved checksum: 220949, segnum: 1, acknum: 0
Recieved packet data is: ½r(;Ocv,?Sgz0DWk~4H
Expected checksum: 244851
Packet Corrupt!
Recieved checksum: 220949, segnum: 1, acknum: 0
Recieved packet data is: ½r(;0cv,?Sgz0DWk~4H
Expected checksum: 244851
Packet corrupt
Sending bACK a NAK!
     62425.3101, Layer 5 to 4 Message = aapI!X1hAwP) `80H~W0g
A timed out. Sending packet with seqnum 1, and checksum 245013 again
A timed out. Sending packet with seqnum 1, and checksum 245013 again
B gettin' a packet with segnum 1, and checksum 245013
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
    63180.5269, Layer 4 to 5 Message = r(;Ocv,?SgzODWk~4H
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: `'Lq8^%Jo6[#Hm4Y~Fk2
A sending packet with segnum 0 and checksum 230179 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 230179
Packet Corrupt!
Recieved checksum: 230179, seqnum: 0, acknum: 0 Recieved packet data is: `'Lq80%J^6[\#Hm4Y\sim Fk2
Expected checksum: 229414
Packet Corrupt!
Recieved checksum: 230179, seqnum: 0, acknum: 0 Recieved packet data is: `'Lq80%J^6[#Hm4Y~Fk2
Expected checksum: 229414
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 230179 and data `'Lq8^%Jo6[#Hm4Y~Fk2. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 230179
Packet Corrupt!
```

```
Recieved checksum: 230179, seqnum: 0, acknum: 0 Recieved packet data is: `'Lq8~%Jo6[#Hm4Y^Fk2
Expected checksum: 222083
Packet Corrupt!
Recieved checksum: 230179, seqnum: 0, acknum: 0
Recieved packet data is: `'Lq8~%Jo6[#Hm4Y^Fk2
Expected checksum: 222083
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 230179 and data `'Lq8^%Jo6[#Hm4Y~Fk2. corrupted from
A to B, resending
B gettin' a packet with segnum 76, and checksum 230179
Packet Corrupt!
Recieved checksum: 230179, seqnum: 76, acknum: 0
Recieved packet data is:
Expected checksum: 229723
Packet Corrupt!
Recieved checksum: 230179, seqnum: 76, acknum: 0
Recieved packet data is: ''
Recieved packet data is:
Expected checksum: 229723
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 230179 and data `'Lq8^%Jo6[#Hm4Y~Fk2. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 230179
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     63269.2926, Layer 4 to 5 Message = `'Lq8^%Jo6[#Hm4Y~Fk2
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: aapI!X1hAwP)`8oH~W0g
A sending packet with seqnum 1 and checksum 242123 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 242123
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     63316.1674, Layer 4 to 5 Message = aapI!X1hAwP) `80H~W0g
Setting comp_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     63631.1465, Layer 5 to 4 Message = bLb~iS=(pZExwbL6~iS=
A sending packet with seqnum 0 and checksum 253126
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 253126
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     63632.7985, Layer 4 to 5 Message = bLb \sim iS = (pZExwbL6 \sim iS =
В:
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
```

```
Sending next data from the queue!
     64860.4776, Layer 5 to 4 Message = dfZcRNJFB=952-3%~zvr
A sending packet with seqnum 1 and checksum 244124
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 244124
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     64884.5335, Layer 4 to 5 Message = dfZcRNJFB=952-3%~zvr
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A:
     65744.9249, Layer 5 to 4 Message = dq~.dIVdq~.;IVdq~.;I
A sending packet with seqnum 0 and checksum 236340
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 236340
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     65760.3648, Layer 4 to 5 Message = dq~.dIVdq~.;IVdq~.;I
Setting comp_seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 236340 again
A timed out. Sending packet with segnum 0, and checksum 236340 again
B gettin' a packet with seqnum 0, and checksum 236340
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 236340
Not corrupt, but bad sequence number, sending next boi
     67617.7787, Layer 5 to 4 Message = e\&Ed\&ec\&Cb\#Ba!A`~?}
A sending packet with seqnum 1 and checksum 246265
A sending packet to B
    67629.4085, Layer 5 to 4 Message = f8i;1>fBrEuHxK{N~Q$T
B gettin' a packet with seqnum 1, and checksum 246265
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     67635.0950, Layer 4 to 5 Message = e\&Ed%ec$Cb\#Ba!A`~?}
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 164, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1040
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 164, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1040
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 246265 and data e&Ed%ec$Cb#Ba!A`~? }.
A timed out. Sending packet with seqnum 1, and checksum 246265 again
B gettin' a packet with segnum 1, and checksum 222457
Packet Corrupt!
Recieved checksum: 222457, seqnum: 1, acknum: 0
Recieved packet data is: e&EÁ%ec$Cb#Ba!A`~? }
```

```
Expected checksum: 243657
Packet Corrupt!
Recieved checksum: 222457, segnum: 1, acknum: 0
Recieved packet data is: e&EÁ%ec$Cb#Ba!A`~? }
Expected checksum: 243657
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 1308623784, segnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 858
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 246265
Packet Corrupt!
Recieved checksum: 1308623784, seqnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 858
A: no valid ACK, got instead with corruption. Resending packet with
checksum 246265 and data e&Ed%ec$Cb#Ba!A`~? }.
B gettin' a packet with seqnum 769, and checksum 49657
Packet Corrupt!
Recieved checksum: 49657, seqnum: 769, acknum: 0
Recieved packet data is: e&Ed%ec$Cb#Ba!A`~? }
Expected checksum: 248569
Packet Corrupt!
Recieved checksum: 49657, seqnum: 769, acknum: 0
Recieved packet data is: e&Ed%ec$Cb#Ba!A`~? }
Expected checksum: 248569
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 246265
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: f8i;l>fBrEuHxK{N~Q$T
A sending packet with segnum 0 and checksum 248828 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 248828
Packet Corrupt!
Recieved checksum: 248828, segnum: 0, acknum: 0
Recieved packet data is: f8i;l>fBrxuHEK{N~Q$T
Expected checksum: 245309
Packet Corrupt!
Recieved checksum: 248828, seqnum: 0, acknum: 0
Recieved packet data is: f8i;l>fBrxuHEK{N~Q$T
Expected checksum: 245309
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 248828 and data f8i;1>fBrEuHxK{N~Q$T. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 248828
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
```

```
B sending message up to layer 5 and updating newest recieved data
     68250.2758, Layer 4 to 5 Message = f8i;1>fBrEuHxK{N~Q$T
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     68585.1749, Layer 5 to 4 Message = gKxqU9\{gD(jN2tX<\sim cG+
A sending packet with segnum 1 and checksum 231246
A sending packet to B
B gettin' a packet with segnum 1, and checksum 231246
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     68587.8920, Layer 4 to 5 Message = gKxqU9\{gD(jN2tX<\sim cG+
B:
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     69938.2838, Layer 5 to 4 Message = h^SI>4*hi TJ?5+~tj
A sending packet with segnum 0 and checksum 256764
A sending packet to B
B gettin' a packet with segnum 0, and checksum 212988
Packet Corrupt!
Recieved checksum: 212988, segnum: 0, acknum: 0
Recieved packet data is: h^SI>4*}hi TJê5+~tj`
Expected checksum: 240104
Packet Corrupt!
Recieved checksum: 212988, seqnum: 0, acknum: 0
Recieved packet data is: h^SI>4*}hi TJê5+~tj`
Expected checksum: 240104
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 256764 again
B gettin' a packet with segnum 0, and checksum 256764
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
    70444.9086, Layer 4 to 5 Message = h^SI>4*}hi_TJ?5+~tj`
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     71713.9682, Layer 5 to 4 Message = ipw \sim (x6=EiSZbipw \sim (x6))
A sending packet with seqnum 1 and checksum 261628
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 261628 again
A timed out. Sending packet with seqnum 1, and checksum 261628 again
     72960.4758, Layer 5 to 4 Message = d=Vo*C[txja24Mf~9Rk
A:
A timed out. Sending packet with segnum 1, and checksum 261628 again
B gettin' a packet with seqnum 1, and checksum 6487548
Packet Corrupt!
Recieved checksum: 6487548, segnum: 1, acknum: 0
Recieved packet data is: ipw~(x6=EiSZ ipw~(x6
Expected checksum: 245573
Packet Corrupt!
Recieved checksum: 6487548, segnum: 1, acknum: 0
Recieved packet data is: ipw~(x6=EiSZ ipw~(x6
Expected checksum: 245573
Packet corrupt
Sending bACK a NAK!
```

```
A timed out. Sending packet with seqnum 1, and checksum 261628 again
B gettin' a packet with seqnum 1, and checksum 261628
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
    73717.7400, Layer 4 to 5 Message = ipw \sim (x6=EiSZbipw \sim (x6))
В:
Setting comp seqnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 261628 again
B gettin' a packet with segnum 1, and checksum 261628
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 261628
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d%=Vo*C[txja24Mf~9Rk
A sending packet with segnum 0 and checksum 253043 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 253043
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     74238.8334, Layer 4 to 5 Message = d%=Vo*C[txja24Mf~9Rk
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
     74255.3811, Layer 5 to 4 Message = k7b.X\%OyFp<k3^*T\sim KuB
A sending packet with segnum 1 and checksum 243904
A sending packet to B
B gettin' a packet with segnum 1, and checksum 243904
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
    74260.9666, Layer 4 to 5 Message = k7b.X%OyFp<k3^*T~KuB
Setting comp_seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 243904 again
B gettin' a packet with seqnum 1, and checksum 243904
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 243904 again
B gettin' a packet with segnum 1, and checksum 243904
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 243904
Not corrupt, but bad sequence number, sending next boi
    75874.3851, Layer 5 to 4 Message = lf(dB)[9uS1ml)3C~]:v
A sending packet with seqnum 0 and checksum 245657
A sending packet to B
    76366.4618, Layer 5 to 4 Message = m]L;+xhWG6&scmB1~n^M
A timed out. Sending packet with seqnum 0, and checksum 245657 again
A timed out. Sending packet with segnum 0, and checksum 245657 again
A timed out. Sending packet with seqnum 0, and checksum 245657 again
B gettin' a packet with seqnum 0, and checksum 245657
```

```
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data B: 77377.8349, Layer 4 to 5 Message = lf(dB)[9uSlml)3C~]:v
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 245657 again
     77894.7775, Layer 5 to 4 Message = nopqrstuvwxyz\{n\}~!#$
A timed out. Sending packet with segnum 0, and checksum 245657 again
A timed out. Sending packet with seqnum 0, and checksum 245657 again
B gettin' a packet with segnum 0, and checksum 222361
Packet Corrupt!
Recieved checksum: 222361, seqnum: 0, acknum: 0
Recieved packet data is: lf(¿B)[9uS1ml)3C~]:v
Expected checksum: 243017
Packet Corrupt!
Recieved checksum: 222361, segnum: 0, acknum: 0
Recieved packet data is: lf(¿B}[9uS1ml)3C~]:v
Expected checksum: 243017
Packet corrupt
Sending bACK a NAK!
     79343.6979, Layer 5 to 4 Message = 0$6I[n#5HZm!4GYo~3FX]
A timed out. Sending packet with seqnum 0, and checksum 245657 again
B gettin' a packet with seqnum 0, and checksum 245657
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
     79743.6137, Layer 5 to 4 Message = p6Z~EixSw=b(Lp6ZpEix
A timed out. Sending packet with seqnum 0, and checksum 245657 again
B gettin' a packet with seqnum 0, and checksum 245657
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 245657
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: m]L;+xhWG6&scmB1~n^M
A sending packet with seqnum 1 and checksum 252680 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 252680
Packet Corrupt!
Recieved checksum: 252680, segnum: 1, acknum: 18176
Recieved packet data is: m]L;+xhW
Expected checksum: 210577
Packet Corrupt!
Recieved checksum: 252680, seqnum: 1, acknum: 18176
Recieved packet data is: m]L;+xhW
Expected checksum: 210577
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 252680 again
A timed out. Sending packet with seqnum 1, and checksum 252680 again
B gettin' a packet with seqnum 1, and checksum 252680
Packet Corrupt!
Recieved checksum: 252680, seqnum: 1, acknum: 0
Recieved packet data is: m]L;MxhWG6&scmB1~n^+
Expected checksum: 239930
Packet Corrupt!
Recieved checksum: 252680, seqnum: 1, acknum: 0
Recieved packet data is: m]L;MxhWG6&scmB1~n^+
```

```
Sending bACK a NAK!
     80940.1299, Layer 5 to 4 Message = dI~V.d;qI~V.2;qI~q.d
A timed out. Sending packet with seqnum 1, and checksum 252680 again
A timed out. Sending packet with seqnum 1, and checksum 252680 again
     82019.7118, Layer 5 to 4 Message = r[E.u H1xbK4{eN7~hr}:
A timed out. Sending packet with segnum 1, and checksum 252680 again
B gettin' a packet with segnum 1, and checksum 252680
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     82438.7356, Layer 4 to 5 Message = m]L;+xhWG6&scmB1~n^M
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: nopqrstuvwxyz{n}~!#$
A sending packet with segnum 0 and checksum 252474 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 252474
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     82450.2793, Layer 4 to 5 Message = nopqrstuvwxyz\{n\}~!#$
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 252474 again
     83154.5464, Layer 5 to 4 Message = snid YTOJE?:50+\&~yts
A timed out. Sending packet with seqnum 0, and checksum 252474 again
A timed out. Sending packet with seqnum 0, and checksum 252474 again
B gettin' a packet with seqnum 0, and checksum 252474
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 252474
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: o$6I[n#5HZm!4GYo~3FX
A sending packet with segnum 1 and checksum 230503 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 230503
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     83989.6221, Layer 4 to 5 Message = 0$6I[n#5HZm!4GYo~3FX
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: p6Z~EixSw=b(Lp6ZpEix
A sending packet with seqnum 0 and checksum 263746 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 263746
Packet Corrupt!
Recieved checksum: 263746, seqnum: 0, acknum: 0
Recieved packet data is: p6Z~LixSw=b(Ep6ZpEix
Expected checksum: 262738
Packet Corrupt!
```

Expected checksum: 239930

Packet corrupt

```
Recieved checksum: 263746, seqnum: 0, acknum: 0
Recieved packet data is: p6Z~LixSw=b(Ep6ZpEix
Expected checksum: 262738
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 263746 and data p6Z~EixSw=b(Lp6ZpEix. corrupted from
A to B, resending
     84113.3330, Layer 5 to 4 Message = t#x; HTamy (4AMYfr~-9F
A:
     84427.2131, Layer 5 to 4 Message = uuSq10m-Ki)Ge%3a~>]z
A :
A timed out. Sending packet with seqnum 0, and checksum 263746 again
B gettin' a packet with segnum 0, and checksum 263746
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     84547.7859, Layer 4 to 5 Message = p6Z~EixSw=b(Lp6ZpEix
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 263746 again
B gettin' a packet with segnum 0, and checksum 263746
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 263746
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dI~V.d;qI~V.2;qI~q.d
A sending packet with seqnum 1 and checksum 247003 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 247003
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
    85084.4889, Layer 4 to 5 Message = dI~V.d;qI~V.2;qI~q.d
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: r[E.u HlxbK4{eN7~hr:
A sending packet with segnum 0 and checksum 257527 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 257527
Packet Corrupt!
Recieved checksum: 257527, seqnum: 0, acknum: 7667712
Recieved packet data is: r[E.
Expected checksum: -15080822
Packet Corrupt!
Recieved checksum: 257527, segnum: 0, acknum: 7667712
Recieved packet data is: r[E.
Expected checksum: -15080822
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 257527 and data r[E.u H1xbK4{eN7~hr:. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 257527
```

Expected packet compared and confirmed

```
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
    85139.9609, Layer 4 to 5 Message = r[E.u HlxbK4{eN7~hr:
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 10551297
Recieved packet data is: ACK
Expected checksum: -21101663
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, segnum: 0, acknum: 10551297
Recieved packet data is: ACK
Expected checksum: -21101663
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 257527 and data r[E.u H1xbK4{eN7~hr:.
A timed out. Sending packet with seqnum 0, and checksum 257527 again
B gettin' a packet with seqnum 0, and checksum 257527
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 66475, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 936
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 66475, segnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 936
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 257527 and data r[E.u H1xbK4{eN7~hr:.
B gettin' a packet with seqnum 0, and checksum 257527
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
    85809.9453, Layer 5 to 4 Message = vHvIxJyKzL\{M|N\}O\sim P!Q
A timed out. Sending packet with segnum 0, and checksum 257527 again
B gettin' a packet with seqnum 0, and checksum 257527
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 257527 again
B gettin' a packet with segnum 0, and checksum 257527
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 257527
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: snid YTOJE?:50+&~yts
A sending packet with seqnum 1 and checksum 247908 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 247908
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     86699.3172, Layer 4 to 5 Message = snid YTOJE?:50+&~yts
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
```

```
Packet Corrupt!
Recieved checksum: 932, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1125
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 247908
Packet Corrupt!
Recieved checksum: 932, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1125
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 247908 and data snid YTOJE?:50+&~yts.
B gettin' a packet with seqnum 1, and checksum 247908
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
     86917.6928, Layer 5 to 4 Message = wZ=wbE(iLxpS6wZ=\sim bE(
A timed out. Sending packet with seqnum 1, and checksum 247908 again
     87669.9992, Layer 5 to 4 Message = dmbVx?4) {peY2C7,~sh]
A timed out. Sending packet with seqnum 1, and checksum 247908 again
B gettin' a packet with segnum 1, and checksum 247908
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 843, seqnum: 0, acknum: 0
Recieved packet data is: NA"
Expected checksum: -531
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 247908
Packet Corrupt!
Recieved checksum: 843, seqnum: 0, acknum: 0
Recieved packet data is: NA"
Expected checksum: -531
A: no valid ACK, got NA^{\circ} instead with corruption. Resending packet with
checksum 247908 and data snid YTOJE?:50+&~yts.
A timed out. Sending packet with seqnum 1, and checksum 247908 again
B gettin' a packet with seqnum 4849665, and checksum 247908
Packet Corrupt!
Recieved checksum: 247908, seqnum: 4849665, acknum: 0
Recieved packet data is: snid YTO
Expected checksum: 14790906
Packet Corrupt!
Recieved checksum: 247908, seqnum: 4849665, acknum: 0
Recieved packet data is: snid YTO
Expected checksum: 14790906
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 247908 again
A timed out. Sending packet with segnum 1, and checksum 247908 again
B gettin' a packet with seqnum 1, and checksum 1946404964
Packet Corrupt!
Recieved checksum: 1946404964, seqnum: 1, acknum: 0
Recieved packet data is: snid YTOJE?:50+&~y
Expected checksum: 206032
Packet Corrupt!
Recieved checksum: 1946404964, seqnum: 1, acknum: 0
```

```
Recieved packet data is: snid YTOJE?:50+&~y
Expected checksum: 206032
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 247908
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: t#x; HTamy (4AMYfr~-9F
A sending packet with segnum 0 and checksum 230371 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 230371
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
    89242.2037, Layer 4 to 5 Message = t #x; HTamy (4AMYfr~-9F
Setting comp segnum from 0 to 1
     89291.0583, Layer 5 to 4 Message = y!(.4yAGMSY)flrx^{-3}
     89504.3832, Layer 5 to 4 Message = z4Ld{5ze|6Nf}70g~8Ph
A timed out. Sending packet with seqnum 0, and checksum 230371 again
B gettin' a packet with seqnum 0, and checksum 230371
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 230371 again
A timed out. Sending packet with seqnum 0, and checksum 230371 again
B gettin' a packet with seqnum 0, and checksum 230371
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 230371
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: uuSq10m-Ki)Ge%3a~>]z
A sending packet with seqnum 1 and checksum 246619 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 246619
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     90810.4035, Layer 4 to 5 Message = uuSq10m-Ki)Ge%3a~>]z
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: vHvIxJyKzL{M|N}O~P!Q
A sending packet with segnum 0 and checksum 253645 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 253645
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     90842.1161, Layer 4 to 5 Message = vHvIxJyKzL\{M|N\}O\sim P!Q
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
```

```
Data being dequeued: wZ=wbE(iLxpS6wZ=~bE(
A sending packet with seqnum 1 and checksum 237523 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 237523
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     90847.5356, Layer 4 to 5 Message = wZ=wbE(iLxpS6wZ=\sim bE(
Setting comp segnum from 1 to 0
     90855.8\overline{973}, Layer 5 to 4 Message = {Gp;e0Y{NwCl7a,U~Js>}
Α.
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dmbVx?4) {peY2C7,~sh]
A sending packet with seqnum 0 and checksum 252996 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 252996
Packet Corrupt!
Recieved checksum: 252996, seqnum: 0, acknum: 0
Recieved packet data is: bmbVx?Y) {pe43C7,~sh}
Expected checksum: 249648
Packet Corrupt!
Recieved checksum: 252996, seqnum: 0, acknum: 0
Recieved packet data is: bmbVx?Y) {pe43C7,~sh]
Expected checksum: 249648
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 252996 and data dmbVx?4) {peY2C7,~sh]. corrupted from
A to B, resending
     91145.8823, Layer 5 to 4 Message = |Y6qN+fC|Z7rO,qD\sim[8s]
A timed out. Sending packet with segnum 0, and checksum 252996 again
B gettin' a packet with segnum 0, and checksum 252996
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     91399.6952, Layer 4 to 5 Message = dmbVx?4) {peY2C7, \sim sh]
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, segnum: 0, acknum: 1
Recieved packet data is: KCA
Expected checksum: 849
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: KCA
Expected checksum: 849
A: no valid ACK, got KCA instead with corruption. Resending packet with
checksum 252996 and data dmbVx?4) {peY2C7,~sh].
B gettin' a packet with segnum 0, and checksum 252996
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
     91621.7397, Layer 5 to 4 Message = }lZI7&raO}, xgUD2~m[J
A timed out. Sending packet with seqnum 0, and checksum 252996 again
B gettin' a packet with segnum 0, and checksum 252996
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
```

```
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 252996
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: y!(.4yAGMSY`flrx~'-3
A sending packet with seqnum 1 and checksum 234261 from the queue
A sending packet to B
A timed out. Sending packet with segnum 1, and checksum 234261 again
A timed out. Sending packet with segnum 1, and checksum 234261 again
B gettin' a packet with segnum 1, and checksum 234261
Packet Corrupt!
Recieved checksum: 234261, seqnum: 1, acknum: 0
Recieved packet data is: y!(.4yAfMSY`Glrx~'-3
Expected checksum: 231006
Packet Corrupt!
Recieved checksum: 234261, seqnum: 1, acknum: 0
Recieved packet data is: y!(.4yAfMSY`Glrx~'-3
Expected checksum: 231006
Packet corrupt
Sending bACK a NAK!
     93313.0124, Layer 5 to 4 Message = \sim fDUgx, = 0a \sim \&7I31}1CT
A timed out. Sending packet with seqnum 1, and checksum 234261 again
B gettin' a packet with segnum 1, and checksum 234261
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     93454.2627, Layer 4 to 5 Message = y!(.4yAGMSY`flrx~'-3
Setting comp\_seqnum\ from\ 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 234261 again
B gettin' a packet with seqnum 1, and checksum 234261
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 234261
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: z4Ld{5ze|6Nf}70g~8Ph
A sending packet with segnum 0 and checksum 260618 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 260618
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     93978.8880, Layer 4 to 5 Message = z4Ld{5ze|6Nf}70g~8Ph
Setting comp seqnum from 0 to 1
     94008.4242, Layer 5 to 4 Message = !3EVhy->Pbs'2J[m~2DU]
     94126.7508, Layer 5 to 4 Message = ##i.Qt9]!Eh-Ps8[~Dg,
A timed out. Sending packet with seqnum 0, and checksum 260618 again
B gettin' a packet with segnum 0, and checksum 260618
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
     94841.3808, Layer 5 to 4 Message = x0:oFzQ(]3h>sJ~U,a
A timed out. Sending packet with seqnum 0, and checksum 260618 again
B gettin' a packet with segnum 0, and checksum 260618
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
```

```
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 260618
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: {Gp;e0Y{NwCl7a,U~Js>
A sending packet with seqnum 1 and checksum 247320 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 1623555
Packet Corrupt!
Recieved checksum: 1623555, seqnum: 1, acknum: 0
Recieved packet data is: {Gp;e0Y{NwCl7a,U~Js>
Expected checksum: 247320
Packet Corrupt!
Recieved checksum: 1623555, seqnum: 1, acknum: 0
Recieved packet data is: {Gp;e0Y{NwCl7a,U~Js>
Expected checksum: 247320
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 247320 and data {Gp;e0Y{NwCl7a,U~Js>. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 247320
Packet Corrupt!
Recieved checksum: 247320, seqnum: 1, acknum: 89
Recieved packet data is: {Gp;e0
Expected checksum: 242781
Packet Corrupt!
Recieved checksum: 247320, seqnum: 1, acknum: 89
Recieved packet data is: {Gp;e0
Expected checksum: 242781
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 247320 and data {Gp;e0Y{NwCl7a,U~Js>. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 247320
Packet Corrupt!
Recieved checksum: 247320, seqnum: 1, acknum: 8060928
Recieved packet data is:
Expected checksum: -15874659
Packet Corrupt!
Recieved checksum: 247320, segnum: 1, acknum: 8060928
Recieved packet data is:
Expected checksum: -15874659
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 247320 and data {Gp;e0Y{NwCl7a,U~Js>. corrupted from
A to B, resending
     95406.4546, Layer 5 to 4 Message = %kS%$jR:#iQ9!hP8~g07
     95519.7135, Layer 5 to 4 Message = \&}wq&e XRLF?93-'~xrl
A timed out. Sending packet with segnum 1, and checksum 247320 again
A timed out. Sending packet with seqnum 1, and checksum 247320 again
B gettin' a packet with segnum 1, and checksum 247320
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
```

```
B sending message up to layer 5 and updating newest recieved data
     96141.1587, Layer 4 to 5 Message = {Gp;e0Y{NwCl7a,U~Js>
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: |Y6qN+fC|Z7rO,gD~[8s
A sending packet with segnum 0 and checksum 252268 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 252160
Packet Corrupt!
Recieved checksum: 252160, seqnum: 0, acknum: 108
Recieved packet data is: |Y6qN+fC|Z7rO,qD~[8s
Expected checksum: 252052
Packet Corrupt!
Recieved checksum: 252160, segnum: 0, acknum: 108
Recieved packet data is: |Y6qN+fC|Z7rO,gD~[8s
Expected checksum: 252052
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 252268 again
     97060.8747, Layer 5 to 4 Message = '2=IT'kv$x:FQ]hs^{-},7C
A timed out. Sending packet with seqnum 0, and checksum 252268 again
B gettin' a packet with seqnum 0, and checksum 252268
Packet Corrupt!
Recieved checksum: 252268, seqnum: 0, acknum: 55
Recieved packet data is: |Y6qN+fC|Z
Expected checksum: 245503
Packet Corrupt!
Recieved checksum: 252268, seqnum: 0, acknum: 55
Recieved packet data is: |Y6qN+fC|Z
Expected checksum: 245503
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 252268 and data |Y6qN+fC|Z7rO,qD~[8s. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 252268
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
     97197.0652, Layer 4 to 5 Message = |Y6qN+fC|Z7rO, gD^{2}|8s
Setting comp_seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 252268 again
     98152.6606, Layer 5 to 4 Message = (Eb~=Z(6SpxLi(Eb~=Zw
A:
A timed out. Sending packet with seqnum 0, and checksum 252268 again
B gettin' a packet with seqnum 0, and checksum 252268
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
     98571.7473, Layer 5 to 4 Message = dW(V'U\&)%S$R2Q!P~O}N
A timed out. Sending packet with seqnum 0, and checksum 252268 again
B gettin' a packet with seqnum 0, and checksum 219756
Packet Corrupt!
Recieved checksum: 219756, seqnum: 0, acknum: 0
Recieved packet data is: |Y6qN+fC|Ù7rO,qD~[8s
Expected checksum: 239368
Packet Corrupt!
Recieved checksum: 219756, seqnum: 0, acknum: 0
Recieved packet data is: |Y6qN+fC|Ù7rO,qD~[8s
```

```
Expected checksum: 239368
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: N
Expected checksum: 24144
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 252268
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: N
Expected checksum: 24144
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 252268 and data |Y6qN+fC|Z7rO,gD\sim[8s.
B gettin' a packet with seqnum 217, and checksum 196716
Packet Corrupt!
Recieved checksum: 196716, seqnum: 217, acknum: 0
Recieved packet data is: |Y6qN+fC|Z7rO,qD~[8s
Expected checksum: 252919
Packet Corrupt!
Recieved checksum: 196716, segnum: 217, acknum: 0
Recieved packet data is: |Y6qN+fC|Z7rO,qD~[8s
Expected checksum: 252919
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 252268
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: }lZI7&raO},xgUD2~m[J
A sending packet with seqnum 1 and checksum 254849 from the queue
A sending packet to B
B gettin' a packet with seqnum 6356993, and checksum 254849
Packet Corrupt!
Recieved checksum: 254849, seqnum: 6356993, acknum: 0
Recieved packet data is: }1ZI7&r
Expected checksum: 19319617
Packet Corrupt!
Recieved checksum: 254849, seqnum: 6356993, acknum: 0
Recieved packet data is: }lZI7&r
Expected checksum: 19319617
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 254849 again
B gettin' a packet with seqnum 1, and checksum 254849
Packet Corrupt!
Recieved checksum: 254849, seqnum: 1, acknum: 5963776
Recieved packet data is: }lZI7&raO},xgUD2~m
Expected checksum: -11705554
Packet Corrupt!
Recieved checksum: 254849, segnum: 1, acknum: 5963776
Recieved packet data is: }1ZI7&raO},xqUD2~m
Expected checksum: -11705554
Packet corrupt
```

```
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 254849 and data }lZI7&raO},xgUD2~m[J. corrupted from
A to B, resending
B gettin' a packet with seqnum 1811939329, and checksum 254849
Packet Corrupt!
Recieved checksum: 254849, segnum: 1811939329, acknum: 0
Recieved packet data is: }
Expected checksum: 1141105105
Packet Corrupt!
Recieved checksum: 254849, seqnum: 1811939329, acknum: 0
Recieved packet data is: }
Expected checksum: 1141105105
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 254849 and data }lZI7&raO},xgUD2~m[J. corrupted from
A to B, resending
A timed out. Sending packet with segnum 1, and checksum 254849 again
B gettin' a packet with segnum 1, and checksum 254849
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
     99776.3871, Layer 4 to 5 Message = }1ZI7&raO},xgUD2~m[J
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ~fDUgx,=Oa~&7I31}1CT
A sending packet with segnum 0 and checksum 224715 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 224715
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
    99811.7573, Layer 4 to 5 Message = \sim fDUgx, =Oa\sim \&7I31}1CT
Setting comp seqnum from 0 to 1
A: 100243.3073, Layer 5 to 4 Message = *fL.nP2r*6vX:z3>~aC%
A timed out. Sending packet with seqnum 0, and checksum 224715 again
B gettin' a packet with segnum 0, and checksum 224715
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 224715
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: !3EVhy->Pbs'2J[m~2DU
A sending packet with segnum 1 and checksum 233595 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 233595 again
A timed out. Sending packet with seqnum 1, and checksum 233595 again
B gettin' a packet with seqnum 1, and checksum 233595
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 101340.4529, Layer 4 to 5 Message = !3EVhy->Pbs'2J[m~2DU
```

```
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 843, seqnum: 1, acknum: 1
Recieved packet data is: AC¤
Expected checksum: -571
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 843, seqnum: 1, acknum: 1
Recieved packet data is: AC¤
Expected checksum: -571
A: no valid ACK, got AC¤ instead with corruption. Resending packet with
checksum 233595 and data !3EVhy->Pbs'2J[m~2DU.
A: 101538.4643, Layer 5 to 4 Message = +|pdWK>2&+k RF9-~rfY
A timed out. Sending packet with seqnum 1, and checksum 233595 again
B gettin' a packet with seqnum 1, and checksum 233595
Packet Corrupt!
Recieved checksum: 233595, seqnum: 1, acknum: 6815744
Recieved packet data is: !3EV
Expected checksum: -13400493
Packet Corrupt!
Recieved checksum: 233595, seqnum: 1, acknum: 6815744
Recieved packet data is: !3EV
Expected checksum: -13400493
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 233595
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ##i.Qt9]!Eh-Ps8[~Dg,
A sending packet with segnum 0 and checksum 230547 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 205203
Packet Corrupt!
Recieved checksum: 205203, seqnum: 0, acknum: 0
Recieved packet data is: ##i.Qt9], Eh-Ps8[~Dg,
Expected checksum: 217830
Packet Corrupt!
Recieved checksum: 205203, segnum: 0, acknum: 0
Recieved packet data is: ##i.Qt9], Eh-Ps8[~Dg,
Expected checksum: 217830
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 230547 and data ##i.Qt9]!Eh-Ps8[~Dg,. corrupted from
A to B, resending
   102130.2152, Layer 5 to 4 Message = ,16;AFKPUZ,ejoty~&+0
A timed out. Sending packet with seqnum 0, and checksum 230547 again
B gettin' a packet with seqnum 0, and checksum 230547
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 102416.0029, Layer 4 to 5 Message = ##i.Qt9]!Eh-Ps8[~Dg,
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
```

```
Recieved checksum: 929, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1220
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1220
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 230547 and data ##i.Qt9]!Eh-Ps8[~Dg,.
A timed out. Sending packet with seqnum 0, and checksum 230547 again
A timed out. Sending packet with seqnum 0, and checksum 230547 again
B gettin' a packet with seqnum 0, and checksum 230547
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A: 103451.6628, Layer 5 to 4 Message = -DZq*AWn'=T-$:Qh~7Ne
A: 103460.1909, Layer 5 to 4 Message = .V~Iq;d.V~Iq.d.V~Iq;
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 230547
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: $X$d:oFzQ(]3h>sJ~U,a
A sending packet with segnum 1 and checksum 241265 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 241265
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 103479.0158, Layer 4 to 5 Message = X$d:oFzQ(]3h>sJ~U,a
Setting comp segnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 241265 again
A timed out. Sending packet with seqnum 1, and checksum 241265 again
B gettin' a packet with segnum 1, and checksum 241265
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 241265
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: %kS%$jR:#iQ9!hP8~gO7
A sending packet with segnum 0 and checksum 224119 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 224119
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   104519.7650, Layer 4 to 5 Message = %kS%$jR:#iQ9!hP8~g07
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: &}wq&e XRLF?93-'~xrl
A sending packet with segnum 1 and checksum 249386 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 249386
```

Expected packet compared and confirmed

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B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: '2=IT'kv$x:FQ]hs~,7C
A sending packet with segnum 0 and checksum 232274 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 232274
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 104575.1296, Layer 4 to 5 Message = '2=IT'kv$x:FQ]hs~,7C
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 1454
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, segnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 1454
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 232274 and data '2=IT'kv$x:FQ]hs~,7C.
B gettin' a packet with seqnum 0, and checksum 232274
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A: 104792.8184, Layer 5 to 4 Message = xiE \sim Z6pL(b=wSxiE \sim Z6p
A timed out. Sending packet with segnum 0, and checksum 232274 again
A: 105210.5086, Layer 5 to 4 Message = d{iVD1|jWE2}2X03\sim 1YG
A: 105406.4667, Layer 5 to 4 Message = 10x.-,+*) ('&\$\$\$1\^\\| | {
A timed out. Sending packet with seqnum 0, and checksum 232274 again
B gettin' a packet with seqnum 0, and checksum 232274
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 20139, segnum: 1, acknum: 0
Recieved packet data is: AK
Expected checksum: 864
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 232274
Packet Corrupt!
Recieved checksum: 20139, seqnum: 1, acknum: 0
Recieved packet data is: AK
Expected checksum: 864
A: no valid ACK, got AK instead with corruption. Resending packet with
checksum 232274 and data '2=IT'kvx:FQhs~,7C.
B gettin' a packet with seqnum 0, and checksum 232274
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
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packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 232274
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: (Eb~=Z(6SpxLi(Eb~=Zw
A sending packet with seqnum 1 and checksum 259174 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 259174
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 105637.1806, Layer 4 to 5 Message = (Eb~=Z(6SpxLi(Eb~=Zw
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dW(V'U&)%S$R2Q!P~O}N
A sending packet with seqnum 0 and checksum 228655 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 228655 again
A timed out. Sending packet with seqnum 0, and checksum 228655 again
B gettin' a packet with segnum 0, and checksum 228655
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 106658.8053, Layer 4 to 5 Message = dW(V'U\&) %S$R2Q!P~O}N
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: *fL.nP2r*6vX:z3>~aC%
A sending packet with seqnum 1 and checksum 220814 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 220814
Packet Corrupt!
Recieved checksum: 220814, seqnum: 1, acknum: 0
Recieved packet data is: *fL.nP2r*6vX:>3z~aC%
Expected checksum: 224414
Packet Corrupt!
Recieved checksum: 220814, seqnum: 1, acknum: 0
Recieved packet data is: *fL.nP2r*6vX:>3z~aC%
Expected checksum: 224414
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 220814 and data *fL.nP2r*6vX:z3>~aC%. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 220814
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 106745.5866, Layer 4 to 5 Message = *fL.nP2r*6vX:z3>~aC%
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: +|pdWK>2&+k RF9-~rfY
A sending packet with segnum 0 and checksum 245883 from the queue
A sending packet to B
A: 106873.8210, Layer 5 to 4 Message = 2CSdt'7HXiy,<M^n21BR
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A timed out. Sending packet with seqnum 0, and checksum 245883 again
A timed out. Sending packet with seqnum 0, and checksum 245883 again
B gettin' a packet with seqnum 0, and checksum 245883
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 107770.8759, Layer 4 to 5 Message = +|pdWK>2&+k RF9-~rfY
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ,16;AFKPUZ,ejoty~&+0
A sending packet with seqnum 1 and checksum 230484 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 230484
Packet Corrupt!
Recieved checksum: 230484, seqnum: 1, acknum: 0
Recieved packet data is: ,16;AFePUZ,Kjoty~&+0
Expected checksum: 228014
Packet Corrupt!
Recieved checksum: 230484, seqnum: 1, acknum: 0
Recieved packet data is: ,16;AFePUZ,Kjoty~&+0
Expected checksum: 228014
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 230484 and data ,16; AFKPUZ, ejoty~&+0. corrupted from
A to B, resending
A timed out. Sending packet with seqnum 1, and checksum 230484 again
B gettin' a packet with seqnum 1, and checksum 230484
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 108327.8667, Layer 4 to 5 Message = ,16;AFKPUZ,ejoty~&+0
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: -DZq*AWn'=T-$:Qh~7Ne
A sending packet with segnum 0 and checksum 228547 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 228547
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 108360.6965, Layer 4 to 5 Message = -DZq*AWn'=T-$:Qh~7Ne
Setting comp seqnum from 0 to 1
A: 108373.3206, Layer 5 to 4 Message = 3fw;^1Df*Ln2Tv3]^3e
A timed out. Sending packet with segnum 0, and checksum 228547 again
A timed out. Sending packet with seqnum 0, and checksum 228547 again
A: 109761.4548, Layer 5 to 4 Message = 4h=qGzP&Yxc8lBuK~T4^
A timed out. Sending packet with segnum 0, and checksum 228547 again
B gettin' a packet with seqnum 7405568, and checksum 228547
Packet Corrupt!
Recieved checksum: 228547, seqnum: 7405568, acknum: 0
Recieved packet data is: -DZ
Expected checksum: 22443443
Packet Corrupt!
Recieved checksum: 228547, seqnum: 7405568, acknum: 0
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Recieved packet data is: -DZ
Expected checksum: 22443443
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 228547
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: .V~Iq;d.V~Iq.d.V~Iq;
A sending packet with segnum 1 and checksum 244281 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 244281 again
B gettin' a packet with seqnum 1, and checksum 244281
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 110388.2027, Layer 4 to 5 Message = .V~Iq;d.V~Iq.d.V~Iq;
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is:
Expected checksum: 13607
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is:
Expected checksum: 13607
A: no valid ACK, got instead with corruption. Resending packet with
checksum 244281 and data .V~Iq;d.V~Iq.d.V~Iq;.
B gettin' a packet with seqnum 1, and checksum 215353
Packet Corrupt!
Recieved checksum: 215353, seqnum: 1, acknum: 0
Recieved packet data is: .V~°q;d.V~Iq.d.V~Iq;
Expected checksum: 241993
Packet Corrupt!
Recieved checksum: 215353, seqnum: 1, acknum: 0
Recieved packet data is: .V~°q;d.V~Iq.d.V~Iq;
Expected checksum: 241993
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 244281
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: xiE~Z6pL(b=wSxiE~Z6p
A sending packet with seqnum 0 and checksum 263907 from the queue
A sending packet to B
A: 110906.7348, Layer 5 to 4 Message = 5zbI0u]D+pW>&kR9~fM5
A timed out. Sending packet with segnum 0, and checksum 263907 again
A: 111036.8262, Layer 5 to 4 Message = 6x(\sim wpibZSLE=6x(\sim wpi
A: 111315.5999, Layer 5 to 4 Message = d7LVaku!, 6AK2 jt \sim +5?
A timed out. Sending packet with segnum 0, and checksum 263907 again
B gettin' a packet with segnum 0, and checksum 263907
Packet Corrupt!
Recieved checksum: 263907, seqnum: 0, acknum: 0
```

```
Recieved packet data is: xiE~x6pL(b=wSZiE~Z6p
Expected checksum: 258777
Packet Corrupt!
Recieved checksum: 263907, seqnum: 0, acknum: 0
Recieved packet data is: xiE~x6pL(b=wSZiE~Z6p
Expected checksum: 258777
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 263907 and data xiE~Z6pL(b=wSxiE~Z6p. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 263907
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 111455.2948, Layer 4 to 5 Message = xiE~Z6pL(b=wSxiE~Z6p
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: d{iVD1|jWE2}2X03~1YG
A sending packet with seqnum 1 and checksum 238649 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 238649
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 111467.9832, Layer 4 to 5 Message = d{iVD1|jWE2}2X03\sim1YG
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 164, segnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1439
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 164, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1439
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 238649 and data d{iVD1|jWE2}2X03~1YG.
B gettin' a packet with segnum 1, and checksum 238649
Packet Corrupt!
Recieved checksum: 238649, segnum: 1, acknum: 31744
Recieved packet data is: b{iVD1
Expected checksum: 169252
Packet Corrupt!
Recieved checksum: 238649, segnum: 1, acknum: 31744
Recieved packet data is: b{iVD1
Expected checksum: 169252
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 238649
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 10x.-,+*)('&%$#1~}|{}
```

```
A sending packet with seqnum 0 and checksum 231602 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 231602
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 111513.9335, Layer 4 to 5 Message = 10x.-,+*) ('&\$\$\$1\^\| \{
Setting comp segnum from 0 to 1
A timed out. Sending packet with segnum 0, and checksum 231602 again
A timed out. Sending packet with seqnum 0, and checksum 231602 again
B gettin' a packet with segnum 0, and checksum 231602
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
A: 112666.0683, Layer 5 to 4 Message = 8T8.Jf$?[w5Qm+Gc~<Xt
A timed out. Sending packet with seqnum 0, and checksum 231602 again
A timed out. Sending packet with seqnum 0, and checksum 231602 again
A: 113632.5828, Layer 5 to 4 Message = 9g693a0^-Z*W'T$Q~N{K}
A timed out. Sending packet with seqnum 0, and checksum 231602 again
A timed out. Sending packet with segnum 0, and checksum 231602 again
A timed out. Sending packet with segnum 0, and checksum 231602 again
A: 115355.2189, Layer 5 to 4 Message = :yZ;:[<{]=|^>}_?^A!
A: 115397.6802, Layer 5 to 4 Message = ;.~qd;I;.~qdVI;.~qdV
A timed out. Sending packet with seqnum 0, and checksum 231602 again
A timed out. Sending packet with segnum 0, and checksum 231602 again
A timed out. Sending packet with segnum 0, and checksum 231602 again
B gettin' a packet with seqnum 0, and checksum 231602
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 231602
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 2CSdt'7HXiy, <M^n21BR
A sending packet with segnum 1 and checksum 214297 from the queue
A sending packet to B
A: 117043.7837, Layer 5 to 4 Message = \{fEIMQ<Y^bfjnr3z~\%\}
A timed out. Sending packet with seqnum 1, and checksum 214297 again
B gettin' a packet with seqnum 1, and checksum 3294489
Packet Corrupt!
Recieved checksum: 3294489, segnum: 1, acknum: 0
Recieved packet data is: 2CSdt'7HXiy, <M^n 1BR
Expected checksum: 200714
Packet Corrupt!
Recieved checksum: 3294489, seqnum: 1, acknum: 0
Recieved packet data is: 2CSdt'7HXiy, <M^n 1BR
Expected checksum: 200714
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 214297 and data 2CSdt'7HXiy, <M^n21BR. corrupted from
A to B, resending
A timed out. Sending packet with seqnum 1, and checksum 214297 again
B gettin' a packet with segnum 1, and checksum 214297
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 117581.2887, Layer 4 to 5 Message = 2CSdt'7HXiy, <M^n21BR
```

```
Setting comp seqnum from 1 to 0
A: 117879.1388, Layer 5 to 4 Message = =Si\sim6Lb=xEZp(=Si\sim6Lb
A timed out. Sending packet with segnum 1, and checksum 214297 again
B gettin' a packet with seqnum 1, and checksum 214297
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 214297
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 3fw;^!Df*Ln2Tv3]~3e)
A sending packet with segnum 0 and checksum 225713 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 225713
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 118086.6631, Layer 4 to 5 Message = 3fw;^!Df*Ln2Tv3]~3e)
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: 4h=qGzP&Yxc8lBuK~T4^
A sending packet with seqnum 1 and checksum 251237 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 251237
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   118102.0742, Layer 4 to 5 Message = 4h=qGzP&Yxc8lBuK~T4^
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: 5zbIOu]D+pW>&kR9~fM5
A sending packet with seqnum 0 and checksum 229868 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 637764076
Packet Corrupt!
Recieved checksum: 637764076, segnum: 0, acknum: 0
Recieved packet data is: 5zbI0u]D+pW>
Expected checksum: 223446
Packet Corrupt!
Recieved checksum: 637764076, seqnum: 0, acknum: 0
Recieved packet data is: 5zbI0u]D+pW>
Expected checksum: 223446
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 168, segnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1128
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 168, segnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1128
```

```
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 229868 and data 5zbIOu]D+pW>&kR9~fM5.
B gettin' a packet with seqnum 0, and checksum 229868
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 118213.2386, Layer 4 to 5 Message = 5zbI0u]D+pW>&kR9~fM5
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: 6x(~wpibZSLE=6x(~wpi
A sending packet with segnum 1 and checksum 271517 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 271517
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 118247.8426, Layer 4 to 5 Message = 6x(~wpibZSLE=6x(~wpi
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: d7LVaku!, 6AK2`jt~+5?
A sending packet with seqnum 0 and checksum 219545 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 219545
Packet Corrupt!
Recieved checksum: 219545, seqnum: 0, acknum: 0
Recieved packet data is: b7LVaku!, 6AK3`?t~+5j
Expected checksum: 227237
Packet Corrupt!
Recieved checksum: 219545, segnum: 0, acknum: 0
Recieved packet data is: b7LVaku!, 6AK3`?t~+5j
Expected checksum: 227237
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 219545 again
B gettin' a packet with seqnum 0, and checksum 219545
Packet Corrupt!
Recieved checksum: 219545, seqnum: 0, acknum: 0
Recieved packet data is: b73Vaku!, 6AKL`jt~+5?
Expected checksum: 223712
Packet Corrupt!
Recieved checksum: 219545, seqnum: 0, acknum: 0
Recieved packet data is: b73Vaku!, 6AKL`jt~+5?
Expected checksum: 223712
Packet corrupt
Sending bACK a NAK!
   118824.0256, Layer 5 to 4 Message = dfxV}Gn7>(Ov2g0W~Ho8
A timed out. Sending packet with seqnum 0, and checksum 219545 again
B gettin' a packet with segnum 0, and checksum 219545
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
\ensuremath{\mathtt{B}} sending message up to layer 5 and updating newest recieved data
B: 119273.3450, Layer 4 to 5 Message = d7LVaku!, 6AK2 jt ~+5?
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 161, seqnum: 0, acknum: 1
```

```
Recieved packet data is: ACK
Expected checksum: 1292
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 161, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1292
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 219545 and data d7LVaku!, 6AK2`jt~+5?.
B gettin' a packet with segnum 0, and checksum 219545
Packet Corrupt!
Recieved checksum: 219545, seqnum: 0, acknum: 43
Recieved packet data is: b7LVaku!, 6AK3`jt~
Expected checksum: 205694
Packet Corrupt!
Recieved checksum: 219545, segnum: 0, acknum: 43
Recieved packet data is: b7LVaku!,6AK3`jt~
Expected checksum: 205694
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 219545
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 8T8.Jf$?[w5Qm+Gc~<Xt
A sending packet with segnum 1 and checksum 252414 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 252414
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 119341.6686, Layer 4 to 5 Message = 8T8.Jf$?[w5Qm+Gc~<Xt
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 252414 again
B gettin' a packet with seqnum 1, and checksum 252414
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 252414
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 9g693a0^-Z*W'T$Q~N{K
A sending packet with seqnum 0 and checksum 233160 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 233160
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 119864.5781, Layer 4 to 5 Message = 9g693a0^-Z*W'T$Q~N{K
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: :yZ;:[<{]=|^>} ?~`A!
A sending packet with segnum 1 and checksum 236597 from the queue
 A sending packet to B
```

```
A: 119879.4974, Layer 5 to 4 Message = ?xS.gBzU0?D|W2kF~Y4m
A timed out. Sending packet with seqnum 1, and checksum 236597 again
B gettin' a packet with seqnum 1, and checksum 236597
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 120386.5488, Layer 4 to 5 Message = :yZ;:[<{]=|^>} ?~`A!
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ;.~qd;I;.~qdVI;.~qdV
A sending packet with seqnum 0 and checksum 256903 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 256903
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   120407.4145, Layer 4 to 5 Message = ;.~qd;I;.~qdVI;.~qdV
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: <fEIMQ<Y^bfjnr3z~%) -
A sending packet with seqnum 1 and checksum 225524 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 225524
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 120449.8777, Layer 4 to 5 Message = \{fEIMQ<Y^bfjnr3z~\%\}
Setting comp segnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 225524 again
A: 121137.2393, Layer 5 to 4 Message = A-wdP<)s`LA%o[H4~kWD
A timed out. Sending packet with seqnum 1, and checksum 225524 again
B gettin' a packet with seqnum 1, and checksum 225524
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A: 121815.8281, Layer 5 to 4 Message = B?=;97531x-B)'%#~|zx
A timed out. Sending packet with seqnum 1, and checksum 225524 again
B gettin' a packet with segnum 1, and checksum 225524
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 225524 again
A timed out. Sending packet with seqnum 1, and checksum 225524 again
A timed out. Sending packet with seqnum 1, and checksum 225524 again
A: 123435.1134, Layer 5 to 4 Message = CRbq#2BQap!1CP`o~0?0
A timed out. Sending packet with seqnum 1, and checksum 225524 again
A: 124062.2620, Layer 5 to 4 Message = De(Ij-No2St7XD<^~Bc&
A timed out. Sending packet with segnum 1, and checksum 225524 again
B gettin' a packet with seqnum 1, and checksum 225524
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 4916136, segnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 261
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
```

```
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 225524
Packet Corrupt!
Recieved checksum: 4916136, segnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 261
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 225524 and data <fEIMQ<Y^bfjnr3z~%)-.
B gettin' a packet with seqnum 1, and checksum 225280
Packet Corrupt!
Recieved checksum: 225280, segnum: 1, acknum: 62464
Recieved packet data is: <fEIMQ<Y^bfjnr3z~%)-
Expected checksum: 100596
Packet Corrupt!
Recieved checksum: 225280, seqnum: 1, acknum: 62464
Recieved packet data is: <fEIMQ<Y^bfjnr3z~%) -
Expected checksum: 100596
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 225524
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: =Si~6Lb=xEZp(=Si~6Lb
A sending packet with segnum 0 and checksum 244524 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 244524
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   124538.2945, Layer 4 to 5 Message = =Si\sim6Lb=xEZp(=Si\sim6Lb)
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 4260769, seqnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 864
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 4260769, segnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 864
A: no valid ACK, got instead with corruption. Resending packet with
checksum 244524 and data =Si~6Lb=xEZp(=Si~6Lb.
B gettin' a packet with seqnum 0, and checksum 244524
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1297
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1297
```

```
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 244524 and data =Si~6Lb=xEZp(=Si~6Lb.
B gettin' a packet with seqnum 0, and checksum 244524
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 244524 again
B gettin' a packet with seqnum 0, and checksum 244524
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, segnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: -7561
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 244524
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: -7561
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 244524 and data =Si~6Lb=xEZp(=Si~6Lb.
A: 125490.0818, Layer 5 to 4 Message = EwL~S(Zxb6i=pEEL~S(Z
A timed out. Sending packet with seqnum 0, and checksum 244524 again
B gettin' a packet with segnum 0, and checksum 244524
Packet Corrupt!
Recieved checksum: 244524, seqnum: 0, acknum: 0
Recieved packet data is: ==i~6LbSxEZp(=Si~6Lb
Expected checksum: 245844
Packet Corrupt!
Recieved checksum: 244524, segnum: 0, acknum: 0
Recieved packet data is: ==i~6LbSxEZp(=Si~6Lb
Expected checksum: 245844
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 244524 again
A timed out. Sending packet with seqnum 0, and checksum 244524 again
B gettin' a packet with seqnum 0, and checksum 244524
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 244524
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dfxV}Gn7>(Ov2g0W~Ho8
A sending packet with segnum 1 and checksum 236977 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 236977 again
B gettin' a packet with segnum 1, and checksum 236977
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 127183.7791, Layer 4 to 5 Message = dfxV{Gn7>(Ov2g0W~Ho8)
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
```

```
Recieved checksum: 932, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 965
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 236977
Packet Corrupt!
Recieved checksum: 932, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 965
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 236977 and data dfxV}Gn7>(Ov2g0W~Ho8.
B gettin' a packet with segnum 1, and checksum 236977
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 236977
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ?xS.gBzU0?D|W2kF~Y4m
A sending packet with segnum 0 and checksum 248710 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 248710
Packet Corrupt!
Recieved checksum: 248710, seqnum: 0, acknum: 4325376
Recieved packet data is: ?xS.g
Expected checksum: -8404418
Packet Corrupt!
Recieved checksum: 248710, segnum: 0, acknum: 4325376
Recieved packet data is: ?xS.q
Expected checksum: -8404418
Packet corrupt
Sending bACK a NAK!
A: 127263.6102, Layer 5 to 4 Message = dfpV<#gM3w^D2n3F~eK1
A timed out. Sending packet with seqnum 0, and checksum 248710 again
B gettin' a packet with seqnum 0, and checksum 248710
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 127733.8941, Layer 4 to 5 Message = ?xS.qBzU0?D|W2kF~Y4m
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: A-wdP<)s`LA%o[H4~kWD
A sending packet with segnum 1 and checksum 240736 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 240736
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 127753.2294, Layer 4 to 5 Message = A-wdP<)s`LA%o[H4~kWD
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: AC
```

```
Expected checksum: 11057
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: AC
Expected checksum: 11057
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 240736 and data A-wdP<)s`LA%o[H4~kWD.
B gettin' a packet with segnum 1, and checksum 240736
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 240736
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: B?=;97531x-B)'%\#\sim|zx
A sending packet with segnum 0 and checksum 242408 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 242408
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 127791.6102, Layer 4 to 5 Message = B?=; 97531x-B) '%#~|zx
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: CRbq#2BQap!1CP`o~0?0
A sending packet with segnum 1 and checksum 227538 from the queue
A sending packet to B
A timed out. Sending packet with segnum 1, and checksum 227538 again
A timed out. Sending packet with seqnum 1, and checksum 227538 again
B gettin' a packet with segnum 1, and checksum 227538
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 128803.4269, Layer 4 to 5 Message = CRbq#2BQap!1CP`o~0?0
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 4260772, segnum: 1, acknum: 1
Recieved packet data is:
Expected checksum: 867
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 4260772, seqnum: 1, acknum: 1
Recieved packet data is:
Expected checksum: 867
A: no valid ACK, got instead with corruption. Resending packet with
checksum 227538 and data CRbq#2BQap!1CP`o~0?0.
A: 128839.8346, Layer 5 to 4 Message = G>6.&{skcZRJB91}Gvnf
A timed out. Sending packet with segnum 1, and checksum 227538 again
B gettin' a packet with seqnum 1, and checksum 227538
Packet Corrupt!
Recieved checksum: 227538, seqnum: 1, acknum: 0
Recieved packet data is: CBbq#2RQap!1CP`o~0?0
Expected checksum: 228258
Packet Corrupt!
```

```
Recieved checksum: 227538, seqnum: 1, acknum: 0
Recieved packet data is: CBbq#2RQap!1CP`o~0?0
Expected checksum: 228258
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 168, segnum: 0, acknum: 50331648
Recieved packet data is: NAK
Expected checksum: -100662360
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 227538
Packet Corrupt!
Recieved checksum: 168, segnum: 0, acknum: 50331648
Recieved packet data is: NAK
Expected checksum: -100662360
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 227538 and data CRbq#2BQap!1CP`o~0?0.
A timed out. Sending packet with seqnum 1, and checksum 227538 again
B gettin' a packet with segnum 6356993, and checksum 227538
Packet Corrupt!
Recieved checksum: 227538, segnum: 6356993, acknum: 0
Recieved packet data is: CRbq#2BQ
Expected checksum: 19290657
Packet Corrupt!
Recieved checksum: 227538, segnum: 6356993, acknum: 0
Recieved packet data is: CRbq#2BQ
Expected checksum: 19290657
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 227538
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: De(Ij-No2St7XD<^~Bc&
A sending packet with seqnum 0 and checksum 225926 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 225926
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 129888.6951, Layer 4 to 5 Message = De(Ij-No2St7XD<^{Bc}
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, segnum: 0, acknum: 65
Recieved packet data is:
Expected checksum: 737
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 65
Recieved packet data is: CK
Expected checksum: 737
A: no valid ACK, got CK instead with corruption. Resending packet with
checksum 225926 and data De(Ij-No2St7XD<^~Bc&.
```

B gettin' a packet with seqnum 0, and checksum 225926

```
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
A: 130305.5227, Layer 5 to 4 Message = HQZdmv!+4=GPYclu~H3<
A timed out. Sending packet with seqnum 0, and checksum 225926 again
B gettin' a packet with seqnum 0, and checksum 1107522182
Packet Corrupt!
Recieved checksum: 1107522182, seqnum: 0, acknum: 0
Recieved packet data is: De(Ij-No2St7XD<^~
Expected checksum: 204542
Packet Corrupt!
Recieved checksum: 1107522182, seqnum: 0, acknum: 0
Recieved packet data is: De(Ij-No2St7XD<^~
Expected checksum: 204542
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 225926 again
B gettin' a packet with seqnum 0, and checksum 225926
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1105
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1105
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 225926 and data De(Ij-No2St7XD<^~Bc&.
B gettin' a packet with segnum 0, and checksum 225926
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 225926
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: EwL~S(Zxb6i=pEEL~S(Z
A sending packet with segnum 1 and checksum 234782 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 234782
Packet Corrupt!
Recieved checksum: 234782, seqnum: 1, acknum: 1644167168
Recieved packet data is: EwL~S(Zx
Expected checksum: 1006859804
Packet Corrupt!
Recieved checksum: 234782, segnum: 1, acknum: 1644167168
Recieved packet data is: EwL~S(Zx
Expected checksum: 1006859804
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 16640
Recieved packet data is: N
Expected checksum: -32601
Bad ACK or NAK determined by A
```

```
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 16640
Recieved packet data is: N
Expected checksum: -32601
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 234782 and data EwL~S(Zxb6i=pEEL~S(Z.
B gettin' a packet with seqnum 1, and checksum 234782
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 130999.4842, Layer 4 to 5 Message = EwL~S(Zxb6i=pEEL~S(Z
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dfpV<#gM3w^D2n3F~eK1
A sending packet with seqnum 0 and checksum 227965 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 227965
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 131007.6373, Layer 4 to 5 Message = dfpV<\#gM3w^D2n3F\sim eK1
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 14954
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, segnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 14954
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 227965 and data dfpV<#gM3w^D2n3F~eK1.
B gettin' a packet with seqnum 0, and checksum 227965
Packet Corrupt!
Recieved checksum: 227965, seqnum: 0, acknum: 0
Recieved packet data is: bfpV<#gM3w^D3n3K~eF1</pre>
Expected checksum: 227607
Packet Corrupt!
Recieved checksum: 227965, seqnum: 0, acknum: 0
Recieved packet data is: bfpV<#gM3w^D3n3K~eF1
Expected checksum: 227607
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 9339
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 227965
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 9339
```

```
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 227965 and data dfpV<\#gM3w^D2n3F\sim eK1.
B gettin' a packet with seqnum 0, and checksum 227965
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 0, acknum: 256
Recieved packet data is: NAK
Expected checksum: 424
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 256
Recieved packet data is: NAK
Expected checksum: 424
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 227965 and data dfpV<#gM3w^D2n3F~eK1.
A: 131344.8877, Layer 5 to 4 Message = Id~; Vq.Id~; Vq.Id~; Iq
A timed out. Sending packet with seqnum 0, and checksum 227965 again
B gettin' a packet with seqnum 0, and checksum 227965
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 227965
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: G>6.&{skcZRJB91)Gvnf
A sending packet with seqnum 1 and checksum 240033 from the queue
A sending packet to B
A timed out. Sending packet with segnum 1, and checksum 240033 again
B gettin' a packet with segnum 1, and checksum 240033
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 132143.6090, Layer 4 to 5 Message = G>6.&{skcZRJB91}Gvnf
Setting comp_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: HQZdmv!+4=GPYclu~H3<
A sending packet with segnum 0 and checksum 235344 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 235344
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 132171.7615, Layer 4 to 5 Message = HQZdmv!+4=GPYclu~H3<
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, segnum: 1090519040, acknum: 1
Recieved packet data is:
Expected checksum: -1023409312
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1090519040. last transmitted segnum: 0
Last sent packet Checksum: 235344
```

Packet Corrupt!

```
Recieved checksum: 929, seqnum: 1090519040, acknum: 1
Recieved packet data is:
Expected checksum: -1023409312
A: no valid ACK, got instead with corruption. Resending packet with
checksum 235344 and data HQZdmv!+4=GPYclu~H3<.
A timed out. Sending packet with seqnum 0, and checksum 235344 again
A: 132954.6494, Layer 5 to 4 Message = JvEq?1:g5b0]+W&R\sim MyJ
A timed out. Sending packet with segnum 0, and checksum 235344 again
A timed out. Sending packet with seqnum 0, and checksum 235344 again
B gettin' a packet with segnum 20480, and checksum 235264
Packet Corrupt!
Recieved checksum: 235264, segnum: 20480, acknum: 0
Recieved packet data is: HQZdmv!+4=GPYclu~H3<
Expected checksum: 296784
Packet Corrupt!
Recieved checksum: 235264, segnum: 20480, acknum: 0
Recieved packet data is: HQZdmv!+4=GPYclu~H3<
Expected checksum: 296784
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 235344
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Id~; Vq.Id~; Vq.Id~; Iq
A sending packet with segnum 1 and checksum 253065 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 253065
Packet Corrupt!
Recieved checksum: 253065, segnum: 1, acknum: 4784128
Recieved packet data is: Id~; Vq.Id~; Vq.
Expected checksum: -9331616
Packet Corrupt!
Recieved checksum: 253065, seqnum: 1, acknum: 4784128
Recieved packet data is: Id~; Vq.Id~; Vq.
Expected checksum: -9331616
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1806
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1806
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 253065 and data Id~; Vq.Id~; Vq.Id~; Iq.
A: 133818.2227, Layer 5 to 4 Message = K+iI)gG'eE%cC#aA~ >|
A timed out. Sending packet with segnum 1, and checksum 253065 again
B gettin' a packet with seqnum 1, and checksum 253065
Packet Corrupt!
Recieved checksum: 253065, seqnum: 1, acknum: 0
Recieved packet data is: Id~; Vq.Id~; Vq.Idq; I~
Expected checksum: 254508
Packet Corrupt!
```

```
Recieved checksum: 253065, seqnum: 1, acknum: 0
Recieved packet data is: Id~; Vq.Id~; Vq.Idq; I~
Expected checksum: 254508
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 253065 and data Id~; Vq.Id~; Vq.Id~; Iq. corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 253065
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 134317.0686, Layer 4 to 5 Message = Id~; Vq.Id~; Vq.Id~; Iq
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: JvEq?l:g5b0]+W&R~MyJ
A sending packet with segnum 0 and checksum 239592 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 239592
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 134340.6848, Layer 4 to 5 Message = JvEq?1:q5b0]+W&R~MyJ
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 239592 again
A timed out. Sending packet with seqnum 0, and checksum 239592 again
A: 135476.3067, Layer 5 to 4 Message = LLx~pbSE6(wiZL=x~pbS
A timed out. Sending packet with seqnum 0, and checksum 239592 again
A timed out. Sending packet with segnum 0, and checksum 239592 again
B gettin' a packet with segnum 0, and checksum 239592
Packet Corrupt!
Recieved checksum: 239592, seqnum: 0, acknum: 0
Recieved packet data is: Jvgq?l:E5b0]+W&R~MyJ
Expected checksum: 237722
Packet Corrupt!
Recieved checksum: 239592, seqnum: 0, acknum: 0
Recieved packet data is: Jvgq?l:E5b0]+W&R~MyJ
Expected checksum: 237722
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 239592 again
B gettin' a packet with seqnum 0, and checksum 239592
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 239592
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: K+iI)gG'eE%cC#aA~ >|
A sending packet with seqnum 1 and checksum 242632 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 242632
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
```

B sending message up to layer 5 and updating newest recieved data

```
B: 136902.3864, Layer 4 to 5 Message = K+iI)gG'eE%cC#aA~ >|
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: LLx~pbSE6(wiZL=x~pbS
A sending packet with seqnum 0 and checksum 271934 from the queue
A sending packet to B
                 Layer 5 to 4 Message = dPMVY]`cfilo2ux{~$'*
A: 137312.9423,
A timed out. Sending packet with seqnum 0, and checksum 271934 again
A timed out. Sending packet with seqnum 0, and checksum 271934 again
B gettin' a packet with seqnum 0, and checksum 271934
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 137914.3308, Layer 4 to 5 Message = LLx~pbSE6(wiZL=x~pbS
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: -20446
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, segnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: -20446
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 271934 and data LLx~pbSE6(wiZL=x~pbS.
B gettin' a packet with seqnum 0, and checksum 271934
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
A: 137984.9535, Layer 5 to 4 Message = NcwNCWl#7Lau,AUj~5J
A timed out. Sending packet with seqnum 0, and checksum 271934 again
B gettin' a packet with segnum 0, and checksum 271934
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 271934
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dPMVY] `cfilo2ux{~$'*
A sending packet with segnum 1 and checksum 235669 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 5871765
Packet Corrupt!
Recieved checksum: 5871765, segnum: 1, acknum: 0
Recieved packet data is: bPMV ]`cfilo3ux{~$'*
Expected checksum: 233686
Packet Corrupt!
Recieved checksum: 5871765, segnum: 1, acknum: 0
Recieved packet data is: bPMV ]`cfilo3ux{~$'*
Expected checksum: 233686
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
```

```
Packet with checksum 235669 and data dPMVY] `cfilo2ux{~$'*. corrupted from
A to B, resending
A timed out. Sending packet with segnum 1, and checksum 235669 again
B gettin' a packet with seqnum 1, and checksum 235669
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 138986.5108, Layer 4 to 5 Message = dPMVY] cfilo2ux{~$'*}
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, segnum: 1, acknum: 16777216
Recieved packet data is: ACK
Expected checksum: -33553498
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 16777216
Recieved packet data is: ACK
Expected checksum: -33553498
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 235669 and data dPMVY] `cfilo2ux{~$'*.
A: 139245.2274, Layer 5 to 4 Message = Of=dORxAgxU{Dj3X~Gm5
A timed out. Sending packet with seqnum 1, and checksum 235669 again
B gettin' a packet with segnum 1, and checksum 235669
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 235669 again
B gettin' a packet with seqnum 1, and checksum 235669
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 235669 again
B gettin' a packet with segnum 1, and checksum 235669
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A: 140914.8299, Layer 5 to 4 Message = P*b;sP' 8pJ$[5mG~X2j
A timed out. Sending packet with seqnum 1, and checksum 235669 again
B gettin' a packet with seqnum 1, and checksum 235669
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 235669
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: NcwNCWl#7Lau,AUj~5J_
A sending packet with seqnum 0 and checksum 240432 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 240432
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 141032.2914, Layer 4 to 5 Message = NcwNCWl#7Lau, AUj~5J
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1090519041
Recieved packet data is:
Expected checksum: 2113930080
Bad ACK or NAK determined by A
```

```
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1090519041
Recieved packet data is:
Expected checksum: 2113930080
A: no valid ACK, got instead with corruption. Resending packet with
checksum 240432 and data NcwNCWl#7Lau, AUj~5J .
B gettin' a packet with seqnum 0, and checksum 240432
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 240432
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Of=dORxAgxU{Dj3X~Gm5
A sending packet with seqnum 1 and checksum 252107 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 252107
Packet Corrupt!
Recieved checksum: 252107, segnum: 1, acknum: 31488
Recieved packet data is: Of=dORxAgxU
Expected checksum: 171419
Packet Corrupt!
Recieved checksum: 252107, segnum: 1, acknum: 31488
Recieved packet data is: Of=dORxAgxU
Expected checksum: 171419
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 252107 and data Of=dORxAqxU{Dj3X~Gm5. corrupted from
A to B, resending
A timed out. Sending packet with seqnum 1, and checksum 252107 again
B gettin' a packet with segnum 1, and checksum 252107
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 141648.8883, Layer 4 to 5 Message = Of=dORxAgxU{Dj3X~Gm5
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 0, acknum: 65537
Recieved packet data is: ACK
Expected checksum: -130143
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 252107
Packet Corrupt!
Recieved checksum: 932, seqnum: 0, acknum: 65537
Recieved packet data is: ACK
Expected checksum: -130143
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 252107 and data Of=dORxAgxU{Dj3X~Gm5.
A: 142124.6560, Layer 5 to 4 Message = Q<(q]HQ|hS>*s_J5~jUA
A timed out. Sending packet with segnum 1, and checksum 252107 again
B gettin' a packet with segnum 71, and checksum 252107
Packet Corrupt!
Recieved checksum: 252107, segnum: 71, acknum: 0
```

```
Recieved packet data is: Of=dORxAgxU{Dj3X~ m5
Expected checksum: 229637
Packet Corrupt!
Recieved checksum: 252107, segnum: 71, acknum: 0
Recieved packet data is: Of=dORxAgxU{Dj3X~ m5
Expected checksum: 229637
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 252107 again
B gettin' a packet with segnum 1, and checksum 252107
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 252107
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: P*b;sP' 8pJ$[5mG~X2j
A sending packet with segnum 0 and checksum 239461 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 239461
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 142686.8268, Layer 4 to 5 Message = P*b;sP' 8pJ$[5mG~X2j]
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Q<(q]HQ|hS>*s J5~jUA
A sending packet with segnum 1 and checksum 245227 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 245227
Packet Corrupt!
Recieved checksum: 245227, seqnum: 1, acknum: 53
Recieved packet data is: Q<(q]HQ|hS>*s J
Expected checksum: 231553
Packet Corrupt!
Recieved checksum: 245227, seqnum: 1, acknum: 53
Recieved packet data is: Q<(q]HQ|hS>*s J
Expected checksum: 231553
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1806
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1806
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 245227 and data Q<(q]HQ|hS>*s J5~jUA.
B gettin' a packet with segnum 1, and checksum 245227
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
```

B sending message up to layer 5 and updating newest recieved data

```
B: 142751.8782, Layer 4 to 5 Message = Q(q)HQ|hS>*s J5~jUA
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 143968.0280, Layer 5 to 4 Message = ROLIFC?R9630-*'^{\circ} xu
A sending packet with seqnum 0 and checksum 237984
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 237984
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 143974.7683, Layer 4 to 5 Message = ROLIFC?R9630-*'$~{xu}
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 145854.3608, Layer 5 to 4 Message = Sbp~x=LZSw(6ESbp~x=L
A sending packet with segnum 1 and checksum 255710
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 255710
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 145856.9330, Layer 4 to 5 Message = Sbp~x=LZSw(6ESbp~x=L
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 146548.3244, Layer 5 to 4 Message = dt6Vv8Xx:Tz<2|>_~Aa#
A sending packet with segnum 0 and checksum 233322
A sending packet to B
B gettin' a packet with segnum 0, and checksum 233322
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 146572.0357, Layer 4 to 5 Message = dt6Vv8Xx:Tz<2|> ~Aa#
Setting comp_seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 146687.4989, Layer 5 to 4 Message = U)Z.`3e8j=UCtHyM~R&W
A sending packet with segnum 1 and checksum 241262
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 11404142
Packet Corrupt!
Recieved checksum: 11404142, seqnum: 1, acknum: 0
Recieved packet data is: U) Z. `3e8j=UCtHyM~R&W
Expected checksum: 241262
Packet Corrupt!
Recieved checksum: 11404142, seqnum: 1, acknum: 0
Recieved packet data is: U) Z. `3e8j=UCtHyM~R&W
Expected checksum: 241262
Packet corrupt
Sending bACK a NAK!
A: 146961.6170, Layer 5 to 4 Message = V;~dI.qV;~dV.qV;~dI.
A timed out. Sending packet with segnum 1, and checksum 241262 again
B gettin' a packet with segnum 1, and checksum 241262
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
```

```
B sending message up to layer 5 and updating newest recieved data
B: 147216.5005, Layer 4 to 5 Message = U)Z.`3e8j=UCtHyM~R&W
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: V;~dI.qV;~dV.qV;~dI.
A sending packet with segnum 0 and checksum 237307 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 990093051
Packet Corrupt!
Recieved checksum: 990093051, segnum: 0, acknum: 0
Recieved packet data is: V;~dI.qV
Expected checksum: 232528
Packet Corrupt!
Recieved checksum: 990093051, segnum: 0, acknum: 0
Recieved packet data is: V;~dI.qV
Expected checksum: 232528
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 237307 and data V;~dI.qV;~dV.qV;~dI.. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 237307
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 147270.0073, Layer 4 to 5 Message = V;~dI.qV;~dV.qV;~dI.
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 148335.5200, Layer 5 to 4 Message = WNE;2)}tkbXOW<3*~ulc
A sending packet with segnum 1 and checksum 260256
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 3405984
Packet Corrupt!
Recieved checksum: 3405984, seqnum: 1, acknum: 0
Recieved packet data is: WNE;2)}tkbXOW< *~ulc</pre>
Expected checksum: 249456
Packet Corrupt!
Recieved checksum: 3405984, seqnum: 1, acknum: 0
Recieved packet data is: WNE;2)}tkbXOW< *~ulc</pre>
Expected checksum: 249456
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 4260779, seqnum: 1, acknum: 0
Recieved packet data is: N
Expected checksum: 679
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 4260779, seqnum: 1, acknum: 0
Recieved packet data is: N
Expected checksum: 679
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 260256 and data WNE; 2) } tkbXOW < 3 *~ulc.
B gettin' a packet with seqnum 1, and checksum 260256
```

```
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 148395.7570, Layer 4 to 5 Message = WNE;2)}tkbXOW<3*~ulc
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 148422.3759, Layer 5 to 4 Message = Xfiqy$, 4 < EMU^X3v^-) 19
A sending packet with segnum 0 and checksum 211298
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 211298
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   148430.4597, Layer 4 to 5 Message = Xfiqy\$, 4 \le Mu^X3v^19
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 150025.7491, Layer 5 to 4 Message = YsxIc|8Rl(B[u1Ye~:Tn
A sending packet with segnum 1 and checksum 256280
A sending packet to B
B gettin' a packet with segnum 1, and checksum 256280
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 150047.0417, Layer 4 to 5 Message = YsxIc|8Rl(B[u1Ye~:Tn
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 150411.2704, Layer 5 to 4 Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE
A sending packet with segnum 0 and checksum 257313
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 257313
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
\ensuremath{\mathtt{B}} sending message up to layer 5 and updating newest recieved data
B: 150433.2002, Layer 4 to 5 Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE)
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 151185.0472, Layer 5 to 4 Message = d:wV5rQ0mL+h2&cB[^<y]
A sending packet with seqnum 1 and checksum 233667
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 233667 again
B gettin' a packet with seqnum 1, and checksum 233667
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 151702.4036, Layer 4 to 5 Message = d:wV5rQ0mL+h2&cB[^<y
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 151877.1653, Layer 5 to 4 Message = ]M=.|m^N>x\}n O?0~]^P
A sending packet with segnum 0 and checksum 257422
 A sending packet to B
```

```
B gettin' a packet with seqnum 0, and checksum 257422
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 151905.8569, Layer 4 to 5 Message = ]M=.|m^N>x\}n O?0~] P
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 152285.7741, Layer 5 to 4 Message = ^\circbdfhjlnprtvxz|^*
A sending packet with segnum 1 and checksum 271838
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 271838
Packet Corrupt!
Recieved checksum: 271838, seqnum: 1, acknum: 0
Recieved packet data is: ^`bdfhjlnprtv#z|~x^'
Expected checksum: 282718
Packet Corrupt!
Recieved checksum: 271838, seqnum: 1, acknum: 0
Recieved packet data is: ^`bdfhjlnprtv#z|~x^'
Expected checksum: 282718
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 846, seqnum: 1, acknum: 0
Recieved packet data is: «AK
Expected checksum: 776
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 846, segnum: 1, acknum: 0
Recieved packet data is: «AK
Expected checksum: 776
A: no valid ACK, got «AK instead with corruption. Resending packet with
checksum 271838 and data ^`bdfhjlnprtvxz|~#^'.
B gettin' a packet with seqnum 1, and checksum 271838
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
\ensuremath{\mathtt{B}} sending message up to layer 5 and updating newest recieved data
B: 152304.8978, Layer 4 to 5 Message = ^`bdfhjlnprtvxz|~#^'
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 152668.7745, Layer 5 to 4 Message = _r(;Ocv,?Sgz0DWk~4H
A sending packet with seqnum 0 and checksum 245010
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 245010
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 152670.8733, Layer 4 to 5 Message = r(;Ocv,?SgzODWk~4H
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 154658.8595, Layer 5 to 4 Message = `'Lq8^%Jo6[#Hm4Y~Fk2
A sending packet with segnum 1 and checksum 230182
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 230182
```

```
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 154682.4974, Layer 4 to 5 Message = `'Lq8^%Jo6[#Hm4Y~Fk2
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, segnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 27464
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 27464
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 230182 and data `'Lq8^%Jo6[#Hm4Y~Fk2.
B gettin' a packet with seqnum 1, and checksum 230182
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 5111808
Recieved packet data is:
Expected checksum: -10222758
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 230182
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 5111808
Recieved packet data is:
Expected checksum: -10222758
A: no valid ACK, got instead with corruption. Resending packet with
checksum 230182 and data \Lq8^{\graye0}Jo6[\#Hm4Y\sim Fk2.
A timed out. Sending packet with seqnum 1, and checksum 230182 again
A timed out. Sending packet with segnum 1, and checksum 230182 again
B gettin' a packet with seqnum 1, and checksum 230182
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 230182
Not corrupt, but bad sequence number, sending next boi
A: 156286.7150, Layer 5 to 4 Message = aapI!X1hAwP)`8oH~W0g
A sending packet with seqnum 0 and checksum 242120
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 242120 again
B gettin' a packet with seqnum 0, and checksum 242120
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 156793.8925, Layer 4 to 5 Message = aapI!X1hAwP)`8oH~W0g
Setting comp segnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 242120 again
B gettin' a packet with segnum 0, and checksum 242120
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
```

```
A: 157604.4106, Layer 5 to 4 Message = bfb~iS=(pZExwb36~iS=
A: 157709.3308, Layer 5 to 4 Message = d ZcRNJFB=952-)%~zvr
A timed out. Sending packet with segnum 0, and checksum 242120 again
A timed out. Sending packet with seqnum 0, and checksum 242120 again
A timed out. Sending packet with seqnum 0, and checksum 242120 again
B gettin' a packet with seqnum 0, and checksum 242120
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 242120
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: bfb~iS=(pZExwb36~iS=
A sending packet with seqnum 1 and checksum 247608 from the queue
 A sending packet to B
A: 159103.7760, Layer 5 to 4 Message = dq~.dIVdq~.;IVdq~.;I
A: 159256.5492, Layer 5 to 4 Message = e&Ed%ec$Cb#Ba!A`~? }
A timed out. Sending packet with segnum 1, and checksum 247608 again
B gettin' a packet with segnum 1, and checksum 247608
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 159317.9219, Layer 4 to 5 Message = bfb \sim iS = (pZExwb36 \sim iS = pZExwb36 \sim iS = pZExwb3
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 247608 again
B gettin' a packet with seqnum 1, and checksum 247608
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 247608
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d ZcRNJFB=952-)%~zvr
A sending packet with seqnum 0 and checksum 241843 from the queue
 A sending packet to B
B gettin' a packet with seqnum 0, and checksum 241843
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 159867.6894, Layer 4 to 5 Message = d ZcRNJFB=952-)%~zvr
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dq~.dIVdq~.;IVdq~.;I
A sending packet with segnum 1 and checksum 236343 from the queue
 A sending packet to B
B gettin' a packet with seqnum 1, and checksum 236343
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 159891.5046, Layer 4 to 5 Message = dq~.dIVdq~.;IVdq~.;I
Setting comp segnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 236343 again
A timed out. Sending packet with seqnum 1, and checksum 236343 again
A: 160915.7005, Layer 5 to 4 Message = f8i;1>fBrEuHxK{N~Q}T
```

```
A timed out. Sending packet with seqnum 1, and checksum 236343 again
A timed out. Sending packet with seqnum 1, and checksum 236343 again
B gettin' a packet with seqnum 1, and checksum 236343
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 236343
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: e&Ed%ec$Cb#Ba!A`~? }
A sending packet with seqnum 0 and checksum 246262 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 246262
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   161906.0960, Layer 4 to 5 Message = e&Ed%ec$Cb#Ba!A`~? }
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: f8i;1>fBrEuHxK{N~Q$T
A sending packet with seqnum 1 and checksum 248831 from the queue
A sending packet to B
B gettin' a packet with segnum 1358954497, and checksum 248831
Packet Corrupt!
Recieved checksum: 248831, seqnum: 1358954497, acknum: 0
Recieved packet data is: f8i;l>fBrEuHxK{N~
Expected checksum: -217881221
Packet Corrupt!
Recieved checksum: 248831, segnum: 1358954497, acknum: 0
Recieved packet data is: f8i;l>fBrEuHxK{N~
Expected checksum: -217881221
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 248831 and data f8i;1>fBrEuHxK{N~Q$T. corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 248831
Packet Corrupt!
Recieved checksum: 248831, seqnum: 1, acknum: 0
Recieved packet data is: f8il;>fBrEuHxK{N~Q$T
Expected checksum: 248390
Packet Corrupt!
Recieved checksum: 248831, seqnum: 1, acknum: 0
Recieved packet data is: f8il;>fBrEuHxK{N~Q$T
Expected checksum: 248390
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 248831 again
B gettin' a packet with seqnum 1, and checksum 248831
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 162459.3426, Layer 4 to 5 Message = f8i;1>fBrEuHxK{N~Q$T
Setting comp segnum from 1 to 0
A: 162895.6057, Layer 5 to 4 Message = gKxqU9\{gD(jN2tX<\sim cG+
```

```
A timed out. Sending packet with seqnum 1, and checksum 248831 again
B gettin' a packet with seqnum 1, and checksum 248831
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 12936
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 248831
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 12936
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 248831 and data f8i;1>fBrEuHxK{N~Q$T.
B gettin' a packet with seqnum 1, and checksum 248831
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 248831 again
A timed out. Sending packet with segnum 1, and checksum 248831 again
A: 164010.6891, Layer 5 to 4 Message = h^SI>4*hi TJ?5+\sim tj
A timed out. Sending packet with seqnum 1, and checksum 248831 again
B gettin' a packet with segnum 1, and checksum 248831
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A: 164738.8818, Layer 5 to 4 Message = ipw \sim (x6=EiSZbipw \sim (x6)
A timed out. Sending packet with seqnum 1, and checksum 248831 again
B gettin' a packet with segnum 1, and checksum 6736895
Packet Corrupt!
Recieved checksum: 6736895, seqnum: 1, acknum: 0
Recieved packet data is: f8i;l> BrEuHxK{N~Q$T
Expected checksum: 243980
Packet Corrupt!
Recieved checksum: 6736895, seqnum: 1, acknum: 0
Recieved packet data is: f8i;l> BrEuHxK{N~Q$T
Expected checksum: 243980
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 26130
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 248831
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 26130
A: no valid ACK, got instead with corruption. Resending packet with
checksum 248831 and data f8i; 1>fBrEuHxK{N~Q$T.
A: 165333.6809, Layer 5 to 4 Message = d=Vo*C[txja24Mf~9Rk
A timed out. Sending packet with seqnum 1, and checksum 248831 again
```

B gettin' a packet with seqnum 1, and checksum 248831

```
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 248831 again
A timed out. Sending packet with seqnum 1, and checksum 248831 again
B gettin' a packet with seqnum 1, and checksum 248831
Packet Corrupt!
Recieved checksum: 248831, seqnum: 1, acknum: 0
Recieved packet data is: x8i;1>fBrEuHfK{N~Q$T
Expected checksum: 245807
Packet Corrupt!
Recieved checksum: 248831, seqnum: 1, acknum: 0
Recieved packet data is: x8i; 1>fBrEuHfK{N~Q$T
Expected checksum: 245807
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 1258291200, acknum: 0
Recieved packet data is: NA
Expected checksum: -520093435
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1258291200. last transmitted seqnum: 1
Last sent packet Checksum: 248831
Packet Corrupt!
Recieved checksum: 936, seqnum: 1258291200, acknum: 0
Recieved packet data is: NA
Expected checksum: -520093435
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 248831 and data f8i;1>fBrEuHxK{N~Q$T.
A: 166911.2270, Layer 5 to 4 Message = kfb.X%OyFp<k3^3T~KuB
A timed out. Sending packet with segnum 1, and checksum 248831 again
B gettin' a packet with segnum 1, and checksum 1208208383
Packet Corrupt!
Recieved checksum: 1208208383, seqnum: 1, acknum: 0
Recieved packet data is: f8i;1>fBrEu
Expected checksum: 238463
Packet Corrupt!
Recieved checksum: 1208208383, seqnum: 1, acknum: 0
Recieved packet data is: f8i;1>fBrEu
Expected checksum: 238463
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 248831
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: gKxqU9{gD(jN2tX<~cG+
A sending packet with seqnum 0 and checksum 231243 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 231243
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 167032.6326, Layer 4 to 5 Message = gKxqU9\{gD(jN2tX<\sim cG+
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
```

```
Sending next data from the queue!
Data being dequeued: h^SI>4*}hi TJ?5+~tj`
A sending packet with seqnum 1 and checksum 256767 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 256767
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 167088.1332, Layer 4 to 5 Message = h^SI>4hi TJ?5+~tj`
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ipw~(x6=EiSZbipw~(x6
A sending packet with seqnum 0 and checksum 261625 from the queue
A sending packet to B
A: 167274.9775, Layer 5 to 4 Message = 1J(dB)[9uS1ml)eC^{-}:v
A timed out. Sending packet with seqnum 0, and checksum 261625 again
B gettin' a packet with segnum 0, and checksum 261625
Packet Corrupt!
Recieved checksum: 261625, seqnum: 0, acknum: 0
Recieved packet data is: ipw~(x6bEiSZ=ipw~(x6
Expected checksum: 257740
Packet Corrupt!
Recieved checksum: 261625, segnum: 0, acknum: 0
Recieved packet data is: ipw~(x6bEiSZ=ipw~(x6
Expected checksum: 257740
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 261625 and data ipw \sim (x6=EiSZbipw \sim (x6. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 261625
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 167622.7063, Layer 4 to 5 Message = ipw \sim (x6=EiSZbipw \sim (x6)
Setting comp_seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 261625 again
A: 168251.4158, Layer 5 to 4 Message = m]L;+xhWG6&scmB1~n^M
A: 168308.6562, Layer 5 to 4 Message = nopgrstuvwxyz{n}~!#$
A: 168348.8186, Layer 5 to 4 Message = o$6I[n#5HZm!4GYo~3FX
A timed out. Sending packet with seqnum 0, and checksum 261625 again
A timed out. Sending packet with seqnum 0, and checksum 261625 again
B gettin' a packet with seqnum 0, and checksum 261625
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 261625
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d%=Vo*C[txja24Mf~9Rk
A sending packet with segnum 1 and checksum 253046 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 253046
Packet Corrupt!
Recieved checksum: 253046, segnum: 0, acknum: 16777216
```

```
Recieved packet data is: b%=Vo*C[txja34Mf~9Rk
Expected checksum: -33301222
Packet Corrupt!
Recieved checksum: 253046, segnum: 0, acknum: 16777216
Recieved packet data is: b%=Vo*C[txja34Mf~9Rk
Expected checksum: -33301222
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 253046 and data d=Vo*C[txja24Mf~9Rk. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 253046
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   169163.5405, Layer 4 to 5 Message = d%=Vo*C[txja24Mf~9Rk
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: kfb.X%OyFp<k3^3T~KuB
A sending packet with seqnum 0 and checksum 246114 from the queue
A sending packet to B
B gettin' a packet with segnum 13056, and checksum 246114
Packet Corrupt!
Recieved checksum: 246114, seqnum: 13056, acknum: 0
Recieved packet data is: kfb.X%OyFp<k
Expected checksum: 276663
Packet Corrupt!
Recieved checksum: 246114, seqnum: 13056, acknum: 0
Recieved packet data is: kfb.X%OyFp<k
Expected checksum: 276663
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 246114 and data kfb.X%OyFp<k3^3T~KuB. corrupted from
A to B, resending
   169357.7179, Layer 5 to 4 Message = p6Z~EixSw=b(Lp6ZpEix
A timed out. Sending packet with segnum 0, and checksum 246114 again
B gettin' a packet with segnum 0, and checksum 246114
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 169699.2639, Layer 4 to 5 Message = kfb.X%OyFp<k3^3T~KuB
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1100
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1100
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 246114 and data kfb.X%OyFp<k3^3T~KuB.
```

B gettin' a packet with seqnum 0, and checksum 246114

```
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 246114
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: lJ(dB)[9uS1ml)eC~]:v
A sending packet with segnum 1 and checksum 256798 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 256798
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 169765.6975, Layer 4 to 5 Message = 1J(dB)[9uS1m1)eC^{-}:v
Setting comp seqnum from 1 to 0
A: 169989.4\overline{2}11, Layer 5 to 4 Message = dI \sim V.d; qI \sim V.2; qI \sim q.d
A timed out. Sending packet with seqnum 1, and checksum 256798 again
B gettin' a packet with seqnum 1, and checksum 256798
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 256798 again
   171066.0959, Layer 5 to 4 Message = r[E.u H1xbK4{eN7~hr}:
A timed out. Sending packet with segnum 1, and checksum 256798 again
B gettin' a packet with seqnum 1, and checksum 256798
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 256798
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: m]L;+xhWG6&scmB1~n^M
A sending packet with segnum 0 and checksum 252677 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 252677
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 171287.6775, Layer 4 to 5 Message = m]L;+xhWG6&scmB1~n^M
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: nopqrstuvwxyz{n}~!#$
A sending packet with seqnum 1 and checksum 252477 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 252477
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   171318.5492, Layer 4 to 5 Message = nopqrstuvwxyz{n}~!#$
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: o$6I[n#5HZm!4GYo~3FX
A sending packet with seqnum 0 and checksum 230500 from the queue
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```
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 196708
Packet Corrupt!
Recieved checksum: 196708, seqnum: 0, acknum: -2080374784
Recieved packet data is: o$6I[n#5HZm!4GYo~3FX
Expected checksum: -133987228
Packet Corrupt!
Recieved checksum: 196708, segnum: 0, acknum: -2080374784
Recieved packet data is: o$6I[n#5HZm!4GYo~3FX
Expected checksum: -133987228
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 230500 and data o$6I[n#5HZm!4GYo~3FX. corrupted from
A to B, resending
A timed out. Sending packet with seqnum 0, and checksum 230500 again
B gettin' a packet with seqnum 0, and checksum 230500
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 171871.8224, Layer 4 to 5 Message = o$6I[n#5Hzm!4GYo~3FX
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 19454
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 19454
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 230500 and data o$6I[n#5HZm!4GYo~3FX.
B gettin' a packet with seqnum 0, and checksum 230500
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: -20821
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 230500
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: -20821
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 230500 and data o$6I[n#5HZm!4GYo~3FX.
A: 172050.8990, Layer 5 to 4 Message = snid_YTOJE?:50+&~yts
A timed out. Sending packet with seqnum 0, and checksum 230500 again
A timed out. Sending packet with seqnum 0, and checksum 230500 again
B gettin' a packet with segnum 0, and checksum 230500
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
```

Recieved an ACK/NAK...Checking response...

```
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 230500
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: p6Z~EixSw=b(Lp6ZpEix
A sending packet with seqnum 1 and checksum 263749 from the queue
 A sending packet to B
B gettin' a packet with seqnum 1, and checksum 263749
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 172936.3066, Layer 4 to 5 Message = p6Z~EixSw=b(Lp6ZpEix
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 263749 again
B gettin' a packet with seqnum 1, and checksum 263749
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 263749 again
      174010.4752, Layer 5 to 4 Message = tfx; HTamy(4AMY3r~-9F 174185.0789, Layer 5 to 4 Message = uuSq10m-Ki)Ge%Ca~>]z
A timed out. Sending packet with seqnum 1, and checksum 263749 again
B gettin' a packet with seqnum 1, and checksum 263749
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A: 174750.0560, Layer 5 to 4 Message = vHvIxJyKzL{M|N}0~P!Q
A timed out. Sending packet with seqnum 1, and checksum 263749 again
B gettin' a packet with seqnum 1, and checksum 263749
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 263749
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dI~V.d;qI~V.2;qI~q.d
A sending packet with seqnum 0 and checksum 247000 from the queue
 A sending packet to B
B gettin' a packet with seqnum 0, and checksum 247000
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 174970.0661, Layer 4 to 5 Message = dI~V.d;qI~V.2;qI~q.d
Setting comp seqnum from 0 to 1
A: 175288.3217, Layer 5 to 4 Message = wZ=wbE(iLxpS6wZ=\sim bE(iLxpS6wZ=\sim bE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iLxpS6w=oE(iL
A: 175344.7311, Layer 5 to 4 Message = dmbVx?4) {peY2C7, ~sh}
A: 175416.6244, Layer 5 to 4 Message = y!(.4yAGMSY`flrx~'-3
A timed out. Sending packet with segnum 0, and checksum 247000 again
B gettin' a packet with seqnum 0, and checksum 247000
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 78, acknum: 0
Recieved packet data is: AK
Expected checksum: 1093
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 78. last transmitted seqnum: 0
```

```
Packet Corrupt!
Recieved checksum: 939, seqnum: 78, acknum: 0
Recieved packet data is: AK
Expected checksum: 1093
A: no valid ACK, got AK instead with corruption. Resending packet with
checksum 247000 and data dI~V.d;qI~V.2;qI~q.d.
B gettin' a packet with segnum 0, and checksum 247000
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 247000
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: r[E.u_H1xbK4{eN7~hr:
A sending packet with seqnum 1 and checksum 257530 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 257530
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 175527.6700, Layer 4 to 5 Message = r[E.u H1xbK4{eN7~hr:
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: snid YTOJE?:50+&~yts
A sending packet with seqnum 0 and checksum 247905 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 247905
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 175556.2304, Layer 4 to 5 Message = snid YTOJE?:50+&~yts
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: tfx; HTamy (4AMY3r~-9F
A sending packet with segnum 1 and checksum 219167 from the queue
A sending packet to B
   175727.3795, Layer 5 to 4 Message = z4Ld{5ze|6Nf}70g~8Ph
A:
   175869.0369, Layer 5 to 4 Message = {Gp;e0Y{NwCl7a,U~Js>
A timed out. Sending packet with seqnum 1, and checksum 219167 again
B gettin' a packet with seqnum 1, and checksum 219167
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 176094.6374, Layer 4 to 5 Message = tfx; HTamy (4AMY3r~-9F
Setting comp segnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 219167 again
B gettin' a packet with seqnum 989855745, and checksum 219167
Packet Corrupt!
Recieved checksum: 219167, seqnum: 989855745, acknum: 0
Recieved packet data is: tfx
Expected checksum: -1325181841
Packet Corrupt!
Recieved checksum: 219167, seqnum: 989855745, acknum: 0
```

Last sent packet Checksum: 247000

```
Recieved packet data is: tfx
Expected checksum: -1325181841
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -30832
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 219167
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -30832
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 219167 and data tfx; HTamy (4AMY3r~-9F.
B gettin' a packet with segnum 109, and checksum 219167
Packet Corrupt!
Recieved checksum: 219167, seqnum: 109, acknum: 0
Recieved packet data is: tfx;HTa y(4AMY3r~-9F
Expected checksum: 212579
Packet Corrupt!
Recieved checksum: 219167, seqnum: 109, acknum: 0
Recieved packet data is: tfx;HTa y(4AMY3r~-9F
Expected checksum: 212579
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 219167
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: uuSq10m-Ki)Ge%Ca~>]z
A sending packet with seqnum 0 and checksum 250216 from the queue
A sending packet to B
A: 176705.3189, Layer 5 to 4 Message = |Y6qN+fC|Z7rO, gD~[8s]
A timed out. Sending packet with seqnum 0, and checksum 250216 again
B gettin' a packet with segnum 0, and checksum 250216
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 177155.2986, Layer 4 to 5 Message = uuSq10m-Ki)Ge%Ca\sim]z
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 3929
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 3929
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 250216 and data uuSq10m-Ki)Ge%Ca~>]z.
```

A timed out. Sending packet with seqnum 0, and checksum 250216 again

```
B gettin' a packet with seqnum 0, and checksum 250216
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 250216 again
A: 178379.5009, Layer 5 to 4 Message = fZI7&ra0, xgU32~m[J
A timed out. Sending packet with seqnum 0, and checksum 250216 again
A timed out. Sending packet with seqnum 0, and checksum 250216 again
A timed out. Sending packet with segnum 0, and checksum 250216 again
B gettin' a packet with segnum 0, and checksum 250216
Packet Corrupt!
Recieved checksum: 250216, seqnum: 0, acknum: 0
Recieved packet data is: uu]q10m-Ki)Ge%Ca~>Sz
Expected checksum: 246696
Packet Corrupt!
Recieved checksum: 250216, seqnum: 0, acknum: 0
Recieved packet data is: uu]q10m-Ki)Ge%Ca~>Sz
Expected checksum: 246696
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 1308622848
Recieved packet data is:
Expected checksum: 1677722461
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 250216
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 1308622848
Recieved packet data is:
Expected checksum: 1677722461
A: no valid ACK, got instead with corruption. Resending packet with
checksum 250216 and data uuSq10m-Ki)Ge%Ca~>]z.
B gettin' a packet with seqnum 0, and checksum 250216
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 250216
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: vHvIxJyKzL{M|N}O~P!Q
A sending packet with segnum 1 and checksum 253648 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 253648
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   179735.3681, Layer 4 to 5 Message = vHvIxJyKzL\{M|N\}O\sim P!Q
Setting comp segnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 253648 again
B gettin' a packet with seqnum 1, and checksum 253648
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
```

```
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 253648
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: wZ=wbE(iLxpS6wZ=~bE(
A sending packet with seqnum 0 and checksum 237520 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 237520
Packet Corrupt!
Recieved checksum: 237520, segnum: 0, acknum: 0
Recieved packet data is: w=ZwbE(iLxpS6wZ=~bE(
Expected checksum: 237665
Packet Corrupt!
Recieved checksum: 237520, seqnum: 0, acknum: 0
Recieved packet data is: w=ZwbE(iLxpS6wZ=~bE(
Expected checksum: 237665
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 237520 again
A timed out. Sending packet with segnum 0, and checksum 237520 again
A: 181384.7443, Layer 5 to 4 Message = !3EVhy->Pbs'2J[m~2DU
A timed out. Sending packet with seqnum 0, and checksum 237520 again
B gettin' a packet with segnum 0, and checksum 237520
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 181783.4977, Layer 4 to 5 Message = wZ=wbE(iLxpS6wZ=\sim bE(
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 237520 again
B gettin' a packet with seqnum 0, and checksum 237520
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 237520
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dmbVx?4) {peY2C7,~sh]
A sending packet with seqnum 1 and checksum 252999 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 252999
Packet Corrupt!
Recieved checksum: 252999, seqnum: 1, acknum: 0
Recieved packet data is: bmbVx?4~{peY3C7,)sh]
Expected checksum: 234041
Packet Corrupt!
Recieved checksum: 252999, seqnum: 1, acknum: 0
Recieved packet data is: bmbVx?4~{peY3C7,)sh]
Expected checksum: 234041
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 252999 again
B gettin' a packet with seqnum 1, and checksum 252999
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 182825.8562, Layer 4 to 5 Message = dmbVx?4) {peY2C7,~sh}
Setting comp segnum from 1 to 0
A: 183132.3927, Layer 5 to 4 Message = ##i.Qt9]!Eh-Ps8[~Dg,
A timed out. Sending packet with seqnum 1, and checksum 252999 again
```

```
B gettin' a packet with seqnum 1, and checksum 252999
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 3936
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 252999
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 3936
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 252999 and data dmbVx?4) {peY2C7,~sh].
A timed out. Sending packet with seqnum 1, and checksum 252999 again
B gettin' a packet with seqnum 1, and checksum 252999
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 252999 again
B gettin' a packet with segnum 1, and checksum 252999
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 252999
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: y!(.4yAGMSY`flrx~'-3
A sending packet with segnum 0 and checksum 234258 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 234258 again
   184885.2748, Layer 5 to 4 Message = $X$d:oFzQ(]3h>sJ~U,a
185060.5095, Layer 5 to 4 Message = %kS%$jR:#iQ9!hP8~gO7
A timed out. Sending packet with seqnum 0, and checksum 234258 again
B gettin' a packet with seqnum 0, and checksum 234258
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 185398.2059, Layer 4 to 5 Message = y!(.4yAGMSY`flrx~'-3
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: z4Ld{5ze|6Nf}70g~8Ph
A sending packet with segnum 1 and checksum 260621 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 260621 again
A: 186229.9665, Layer 5 to 4 Message = &\wq&e XRLF?93-'~xrl
A timed out. Sending packet with segnum 1, and checksum 260621 again
B gettin' a packet with seqnum 1, and checksum 260621
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 186404.0174, Layer 4 to 5 Message = z4Ld{5ze|6Nf}70g~8Ph
Setting comp segnum from 1 to 0
```

```
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: {Gp;e0Y{NwCl7a,U~Js>
A sending packet with seqnum 0 and checksum 247317 from the queue
A sending packet to B
                 Layer 5 to 4 Message = '2=IT'kv$x:FQ]hs~,7C
A: 186761.9546,
A timed out. Sending packet with segnum 0, and checksum 247317 again
B gettin' a packet with segnum 0, and checksum 247317
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 186918.0464, Layer 4 to 5 Message = {Gp;e0Y{NwCl7a,U~Js>}}
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 247317 again
B gettin' a packet with seqnum 0, and checksum 247317
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A: 187882.3696, Layer 5 to 4 Message = (Eb\sim=Z(6SpxLi(Eb\sim=Zw))
A timed out. Sending packet with segnum 0, and checksum 247317 again
B gettin' a packet with seqnum 0, and checksum 247317
Packet Corrupt!
Recieved checksum: 247317, seqnum: 0, acknum: 0
Recieved packet data is: >Gp;e0Y{NwCl7a,U~Js{
Expected checksum: 271656
Packet Corrupt!
Recieved checksum: 247317, seqnum: 0, acknum: 0
Recieved packet data is: >Gp;e0Y{NwCl7a,U~Js{
Expected checksum: 271656
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 247317
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: |Y6qN+fC|Z7rO,gD~[8s
A sending packet with seqnum 1 and checksum 252271 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 252271
Packet Corrupt!
Recieved checksum: 252271, seqnum: 1, acknum: 0
Recieved packet data is: |Y6qN+fCsZ7rO,qD~[8|
Expected checksum: 255142
Packet Corrupt!
Recieved checksum: 252271, seqnum: 1, acknum: 0
Recieved packet data is: |Y6qN+fCsZ7rO,gD~[8|
Expected checksum: 255142
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 252271 again
B gettin' a packet with seqnum 1, and checksum 252271
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 188440.4833, Layer 4 to 5 Message = |Y6qN+fC|Z7rO, qD^{-}[8s]
Setting comp segnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 252271 again
B gettin' a packet with segnum 1, and checksum 252271
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```
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 252271
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: }fZI7&raO},xgU32~m[J
A sending packet with segnum 0 and checksum 250997 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 250997
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 188978.4295, Layer 4 to 5 Message = fZI7&raO, xgU32\sim m[J
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 250997 again
A: 189682.3124, Layer 5 to 4 Message = df(V'U\&)%S$R2Q3P~O}N
A timed out. Sending packet with segnum 0, and checksum 250997 again
B gettin' a packet with seqnum 0, and checksum 250997
Packet Corrupt!
Recieved checksum: 250997, seqnum: 0, acknum: 0
Recieved packet data is: }fZI7&raO},xgU32~mJ[
Expected checksum: 251660
Packet Corrupt!
Recieved checksum: 250997, seqnum: 0, acknum: 0
Recieved packet data is: }fZI7&raO},xgU32~mJ[
Expected checksum: 251660
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 1308622848
Recieved packet data is:
Expected checksum: 1677722461
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 250997
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 1308622848
Recieved packet data is:
Expected checksum: 1677722461
A: no valid ACK, got instead with corruption. Resending packet with
checksum 250997 and data }fZI7&raO},xgU32~m[J.
A timed out. Sending packet with seqnum 0, and checksum 250997 again
B gettin' a packet with seqnum 0, and checksum 250997
Packet Corrupt!
Recieved checksum: 250997, segnum: 0, acknum: 114
Recieved packet data is: }fZI7&
Expected checksum: 245183
Packet Corrupt!
Recieved checksum: 250997, seqnum: 0, acknum: 114
Recieved packet data is: }fZI7&
Expected checksum: 245183
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
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```
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 250997
Not corrupt, but bad sequence number, sending next boi
A sending packet with seqnum 1 and checksum 361546 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 361546
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
Setting comp\_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: !3EVhy->Pbs'2J[m~2DU
A sending packet with seqnum 0 and checksum 233592 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 233592
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 190520.1373, Layer 4 to 5 Message = !3EVhy->Pbs'2J[m~2DU
Setting comp segnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 233592 again
B gettin' a packet with segnum 0, and checksum 233592
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 233592
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ##i.Qt9]!Eh-Ps8[~Dg,
A sending packet with segnum 1 and checksum 230550 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 230550
Packet Corrupt!
Recieved checksum: 230550, seqnum: 1, acknum: 0
Recieved packet data is: Q#i.#t9]!Eh-Ps8[~Dq,
Expected checksum: 229446
Packet Corrupt!
Recieved checksum: 230550, segnum: 1, acknum: 0
Recieved packet data is: Q#i.#t9]!Eh-Ps8[~Dg,
Expected checksum: 229446
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 230550 and data ##i.Qt9]!Eh-Ps8[~Dg,. corrupted from
A to B, resending
A: 191376.9148, Layer 5 to 4 Message = *jL.nP2r*6vX:z]>~aC%
A timed out. Sending packet with seqnum 1, and checksum 230550 again
B gettin' a packet with segnum 1, and checksum 230550
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 191582.2373, Layer 4 to 5 Message = ##i.Qt9]!Eh-Ps8[~Dg,
```

```
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 230550 again
B gettin' a packet with seqnum 1, and checksum 230550
Packet Corrupt!
Recieved checksum: 230550, seqnum: 1, acknum: 0
Recieved packet data is: ##i.Qt9]!Eh-Pg8[~Ds,
Expected checksum: 232530
Packet Corrupt!
Recieved checksum: 230550, segnum: 1, acknum: 0
Recieved packet data is: ##i.Qt9]!Eh-Pg8[~Ds,
Expected checksum: 232530
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 168, segnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1011
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 230550
Packet Corrupt!
Recieved checksum: 168, segnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1011
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 230550 and data ##i.Qt9]!Eh-Ps8[~Dg,.
B gettin' a packet with seqnum 1, and checksum 230550
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 230550 again
B gettin' a packet with segnum 1, and checksum 230550
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 230550
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: $X$d:oFzQ(|3h>sJ~U,a
A sending packet with segnum 0 and checksum 241262 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 241262
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 192624.2052, Layer 4 to 5 Message = $X$d:oFzQ(]3h>sJ~U,a
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 4916129, segnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 254
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 4916129, segnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 254
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A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 241262 and data X$d:oFzQ(]3h>sJ~U,a.
B gettin' a packet with seqnum 0, and checksum 241262
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 241262
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: %kS%$jR:#iQ9!hP8~gO7
A sending packet with segnum 1 and checksum 224122 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 2190202
Packet Corrupt!
Recieved checksum: 2190202, seqnum: 1, acknum: 0
Recieved packet data is: %kS%$jR:#iQ9 hP8~gO7
Expected checksum: 219052
Packet Corrupt!
Recieved checksum: 2190202, seqnum: 1, acknum: 0
Recieved packet data is: %kS%$jR:#iQ9 hP8~gO7
Expected checksum: 219052
Packet corrupt
Sending bACK a NAK!
A: 193089.9633, Layer 5 to 4 Message = +|pdWK>2&+k RF9-~rfY
A timed out. Sending packet with seqnum 1, and checksum 224122 again
A timed out. Sending packet with segnum 1, and checksum 224122 again
B gettin' a packet with seqnum 1, and checksum 224122
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   193690.3607, Layer 4 to 5 Message = %kS%$jR:#iQ9!hP8~g07
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: -2380
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, segnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: -2380
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 224122 and data %kS%$jR:#iQ9!hP8~gO7.
B gettin' a packet with seqnum 80, and checksum 224122
Packet Corrupt!
Recieved checksum: 224122, segnum: 80, acknum: 0
Recieved packet data is: %kS%$jR:#iQ9!h 8~g07
Expected checksum: 206584
Packet Corrupt!
Recieved checksum: 224122, segnum: 80, acknum: 0
Recieved packet data is: %kS%$jR:#iQ9!h 8~g07
Expected checksum: 206584
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
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packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 224122
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: & wq&e XRLF?93-'~xrl
A sending packet with seqnum 0 and checksum 249383 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 249383 again
B gettin' a packet with segnum 0, and checksum 249383
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 194247.6131, Layer 4 to 5 Message = &}wq&e XRLF?93-'~xrl
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, segnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: -10566
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: -10566
A: no valid ACK, got ACK instead with corruption. Resending packet with
B gettin' a packet with seqnum 0, and checksum 249383
Packet Corrupt!
Recieved checksum: 249383, seqnum: 0, acknum: 0
Recieved packet data is: & \ wq&e XRLF?93'-~xrl
Expected checksum: 249569
Packet Corrupt!
Recieved checksum: 249383, segnum: 0, acknum: 0
Recieved packet data is: & \ wq&e XRLF?93'-~xrl
Expected checksum: 249569
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 249383
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: '2=IT'kv$x:FQ]hs~,7C
A sending packet with segnum 1 and checksum 232277 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 232277
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   194279.6963, Layer 4 to 5 Message = '2=IT'kv$x:FQ]hs~,7C
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: (Eb~=Z(6SpxLi(Eb~=Zw
A sending packet with seqnum 0 and checksum 259171 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 259171
Packet Corrupt!
Recieved checksum: 259171, seqnum: 0, acknum: 0
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```
Recieved packet data is: (Ep~=Z(6SbxLi(Eb~=Zw
Expected checksum: 257897
Packet Corrupt!
Recieved checksum: 259171, seqnum: 0, acknum: 0
Recieved packet data is: (Ep~=Z(6SbxLi(Eb~=Zw
Expected checksum: 257897
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 259171 and data (Eb~=Z(6SpxLi(Eb~=Zw. corrupted from
A to B, resending
A timed out. Sending packet with seqnum 0, and checksum 259171 again
A: 195056.5561, Layer 5 to 4 Message = ,16; AFKPUZ, ejoty~&+0
A timed out. Sending packet with seqnum 0, and checksum 259171 again
B gettin' a packet with segnum 0, and checksum 259171
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 195321.2300, Layer 4 to 5 Message = (Eb~=Z(6SpxLi(Eb~=Zw
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, segnum: 10551296, acknum: 1
Recieved packet data is: ACK
Expected checksum: 31654817
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 10551296. last transmitted seqnum: 0
Last sent packet Checksum: 259171
Packet Corrupt!
Recieved checksum: 768, segnum: 10551296, acknum: 1
Recieved packet data is: ACK
Expected checksum: 31654817
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 259171 and data (Eb~=Z(6SpxLi(Eb~=Zw.
B gettin' a packet with seqnum 0, and checksum 259171
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 259171 again
B gettin' a packet with segnum 0, and checksum 259171
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1260
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1260
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 259171 and data (Eb~=Z(6SpxLi(Eb~=Zw.
B gettin' a packet with seqnum 0, and checksum 259171
Packet Corrupt!
Recieved checksum: 259171, seqnum: 0, acknum: 0
Recieved packet data is: (Eb~=Z(6Sp=Li(Eb~xZw
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Expected checksum: 271148

```
Packet Corrupt!
Recieved checksum: 259171, seqnum: 0, acknum: 0
Recieved packet data is: (Eb~=Z(6Sp=Li(Eb~xZw
Expected checksum: 271148
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 259171
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: df(V'U&)%S$R2Q3P~O}N
A sending packet with segnum 1 and checksum 232768 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 232768
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 195892.7584, Layer 4 to 5 Message = df(V'U&)%S$R2Q3P~O}N
Setting comp seqnum from 1 to 0
A: 196331.0039, Layer 5 to 4 Message = -DZq*AWn'=T-$:Qh~7Ne
A timed out. Sending packet with seqnum 1, and checksum 232768 again
B gettin' a packet with segnum 1, and checksum 232768
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: -1476395008
Recieved packet data is: NAK
Expected checksum: -1342176344
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 232768
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: -1476395008
Recieved packet data is: NAK
Expected checksum: -1342176344
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 232768 and data df(V'U\&)%S$R2Q3P~O\}N.
B gettin' a packet with segnum 1, and checksum 232768
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 65, acknum: 0
Recieved packet data is: N
Expected checksum: 871
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 65. last transmitted seqnum: 1
Last sent packet Checksum: 232768
Packet Corrupt!
Recieved checksum: 936, seqnum: 65, acknum: 0
Recieved packet data is: N
Expected checksum: 871
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 232768 and data df(V'U\&)%S$R2Q3P~O\}N.
B gettin' a packet with segnum 1, and checksum 232768
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```
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 232768
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: *jL.nP2r*6vX:z]>~aC%
A sending packet with segnum 0 and checksum 230277 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 230277 again
A timed out. Sending packet with seqnum 0, and checksum 230277 again
B gettin' a packet with segnum 0, and checksum 230277
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 197498.8012, Layer 4 to 5 Message = *jL.nP2r*6vX:z]>~aC%
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: +|pdWK>2&+k RF9-~rfY
A sending packet with segnum 1 and checksum 245886 from the queue
A sending packet to B
A: 197897.1256, Layer 5 to 4 Message = .V~Iq;d.V~Iq.d.V~Iq;
A: 197942.2122, Layer 5 to 4 Message = xiE \sim Z6pL (b=wSxiE \sim Z6p
A timed out. Sending packet with seqnum 1, and checksum 245886 again
B gettin' a packet with seqnum 1, and checksum 245886
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   198031.3618, Layer 4 to 5 Message = +|pdWK>2&+k RF9-~rfY
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ,16;AFKPUZ,ejoty~&+0
A sending packet with seqnum 0 and checksum 230481 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 230481
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 198086.7955, Layer 4 to 5 Message = ,16;AFKPUZ,ejoty~&+0
Setting comp_seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: -1593835519
Recieved packet data is: ACK
Expected checksum: -1107295327
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, segnum: 0, acknum: -1593835519
Recieved packet data is: ACK
Expected checksum: -1107295327
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 230481 and data ,16; AFKPUZ, ejoty~&+0.
B gettin' a packet with seqnum 0, and checksum 230481
incorrect seqnum
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```
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 230481
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: -DZg*AWn'=T-$:Qh~7Ne
A sending packet with segnum 1 and checksum 228550 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 228550
Packet Corrupt!
Recieved checksum: 228550, seqnum: 1, acknum: 0
Recieved packet data is: -DZq*AWn'QT-$:=h~7Ne
Expected checksum: 226050
Packet Corrupt!
Recieved checksum: 228550, seqnum: 1, acknum: 0
Recieved packet data is: -DZq*AWn'QT-$:=h~7Ne
Expected checksum: 226050
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 228550 again
B gettin' a packet with seqnum 1, and checksum 216774
Packet Corrupt!
Recieved checksum: 216774, seqnum: 1, acknum: 0
Recieved packet data is: -DZq*AWn'=T-$:Qh~7|e
Expected checksum: 245156
Packet Corrupt!
Recieved checksum: 216774, seqnum: 1, acknum: 0
Recieved packet data is: -DZq*AWn'=T-$:Qh~7|e
Expected checksum: 245156
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 228550 and data -DZq*AWn'=T-$:Qh~7Ne. corrupted from
A to B, resending
A timed out. Sending packet with seqnum 1, and checksum 228550 again
B gettin' a packet with seqnum 1, and checksum 228550
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 199169.2063, Layer 4 to 5 Message = -DZq*AWn'=T-$:Qh~7Ne
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: .V~Iq;d.V~Iq.d.V~Iq;
A sending packet with segnum 0 and checksum 244278 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 244278
Packet Corrupt!
Recieved checksum: 244278, segnum: 0, acknum: 0
Recieved packet data is: .V~II;d.V~Iq.d.V~qq;
Expected checksum: 256238
Packet Corrupt!
Recieved checksum: 244278, seqnum: 0, acknum: 0
Recieved packet data is: .V~II;d.V~Iq.d.V~qq;
Expected checksum: 256238
Packet corrupt
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```
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 244278 again
A: 199712.5403, Layer 5 to 4 Message = d{iVD1|jWE2}2X03\sim1YG
A timed out. Sending packet with seqnum 0, and checksum 244278 again
B gettin' a packet with seqnum 0, and checksum 47670
Packet Corrupt!
Recieved checksum: 47670, seqnum: 0, acknum: 50331648
Recieved packet data is: .V~Iq;d.V~Iq.d.V~Iq;
Expected checksum: -100419018
Packet Corrupt!
Recieved checksum: 47670, seqnum: 0, acknum: 50331648
Recieved packet data is: .V~Iq;d.V~Iq.d.V~Iq;
Expected checksum: -100419018
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 244278 and data .V~Iq;d.V~Iq.d.V~Iq;. corrupted from
A to B, resending
B gettin' a packet with seqnum 28928, and checksum 244278
Packet Corrupt!
Recieved checksum: 244278, segnum: 28928, acknum: 0
Recieved packet data is: .V~Iq;d.V~Iq.d.V~I
Expected checksum: 290269
Packet Corrupt!
Recieved checksum: 244278, segnum: 28928, acknum: 0
Recieved packet data is: .V~Iq;d.V~Iq.d.V~I
Expected checksum: 290269
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 244278 and data .V~Iq;d.V~Iq.d.V~Iq;. corrupted from
A to B, resending
A timed out. Sending packet with seqnum 0, and checksum 244278 again
B gettin' a packet with seqnum 0, and checksum 244278
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 200748.0106, Layer 4 to 5 Message = .V~Iq;d.V~Iq.d.V~Iq;
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: xiE~Z6pL(b=wSxiE~Z6p
A sending packet with seqnum 1 and checksum 263910 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 263910
Packet Corrupt!
Recieved checksum: 263910, seqnum: 1, acknum: 905969664
Recieved packet data is: xiE~Z6pL(b=wSxiE~Z
Expected checksum: -1811694912
Packet Corrupt!
Recieved checksum: 263910, segnum: 1, acknum: 905969664
Recieved packet data is: xiE~Z6pL(b=wSxiE~Z
Expected checksum: -1811694912
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
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Packet with checksum 263910 and data xiE~Z6pL(b=wSxiE~Z6p. corrupted from
A to B, resending
A: 201025.3748,
                 Layer 5 to 4 Message = 10x.-,+*) ('&%$\$\$1~}|{
A timed out. Sending packet with seqnum 1, and checksum 263910 again
B gettin' a packet with seqnum 1996488705, and checksum 263910 \,
Packet Corrupt!
Recieved checksum: 263910, seqnum: 1996488705, acknum: 0
Recieved packet data is: xiE~Z6pL(b=
Expected checksum: 1694745590
Packet Corrupt!
Recieved checksum: 263910, seqnum: 1996488705, acknum: 0
Recieved packet data is: xiE~Z6pL(b=
Expected checksum: 1694745590
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 263910 again
B gettin' a packet with seqnum 1, and checksum 263910
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   201791.4468, Layer 4 to 5 Message = xiE~Z6pL(b=wSxiE~Z6p
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: d{iVD1|jWE2}2X03~1YG
A sending packet with segnum 0 and checksum 238646 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 238646
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   201828.8404, Layer 4 to 5 Message = d{iVD1|jWE2}2X03~1YG
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: 10x.-,+*) ('&%$\$\$1~}|{
A sending packet with seqnum 1 and checksum 231605 from the queue
A sending packet to B
B gettin' a packet with seqnum 256, and checksum 231605
Packet Corrupt!
Recieved checksum: 231605, seqnum: 256, acknum: 0
Recieved packet data is: 10x.-,+*) ('&%$$1^{-}}|{
Expected checksum: 232370
Packet Corrupt!
Recieved checksum: 231605, seqnum: 256, acknum: 0
Recieved packet data is: 10x.-,+*)('\&%$#1~)|{
Expected checksum: 232370
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 231605 and data 10x.-,+*) ('&\$\$\$1~\\\ corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 231605
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 201867.7355, Layer 4 to 5 Message = 10x.-,+*) ('&\$\$\$1\^\| \{
```

```
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 202210.7736, Layer 5 to 4 Message = 2fSdt'7HXiy,<M3n21BR
A sending packet with seqnum 0 and checksum 204759
A sending packet to B
B gettin' a packet with segnum 0, and checksum 204759
Packet Corrupt!
Recieved checksum: 204759, segnum: 0, acknum: 0
Recieved packet data is: 2iSdt'7HXfy, <M3n21BR
Expected checksum: 204471
Packet Corrupt!
Recieved checksum: 204759, seqnum: 0, acknum: 0
Recieved packet data is: 2iSdt'7HXfy, <M3n21BR
Expected checksum: 204471
Packet corrupt
Sending bACK a NAK!
   202302.2749, Layer 5 to 4 Message = 3Uw; ^!Df*Ln2Tv: | ~3e)
A timed out. Sending packet with segnum 0, and checksum 204759 again
B gettin' a packet with segnum 0, and checksum 204759
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 202717.5829, Layer 4 to 5 Message = 2fSdt'7HXiy, <M3n21BR
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: 3Uw;^!Df*Ln2Tv:]~3e)
A sending packet with segnum 1 and checksum 227223 from the queue
A sending packet to B
   203046.1678, Layer 5 to 4 Message = 4h=qGzP&Yxc8lBuK~T4^
A timed out. Sending packet with segnum 1, and checksum 227223 again
A timed out. Sending packet with seqnum 1, and checksum 227223 again
B gettin' a packet with seqnum 1, and checksum 227223
Packet Corrupt!
Recieved checksum: 227223, seqnum: 1, acknum: 0
Recieved packet data is: 3Uw;n!Df*L^2Tv:]~3e)
Expected checksum: 225687
Packet Corrupt!
Recieved checksum: 227223, segnum: 1, acknum: 0
Recieved packet data is: 3Uw;n!Df*L^2Tv:]~3e)
Expected checksum: 225687
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 227223 and data 3Uw; ^!Df*Ln2Tv:]~3e). corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 227223
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 203757.9023, Layer 4 to 5 Message = 3Uw;^!Df*Ln2Tv:]~3e)
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: 4h=qGzP&Yxc8lBuK~T4^
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A sending packet with seqnum 0 and checksum 251234 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 251234
Packet Corrupt!
Recieved checksum: 251234, seqnum: 0, acknum: 5832704
Recieved packet data is: 4h=qGzP&
Expected checksum: -11421383
Packet Corrupt!
Recieved checksum: 251234, segnum: 0, acknum: 5832704
Recieved packet data is: 4h=qGzP&
Expected checksum: -11421383
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 251234 and data 4h=qGzP&Yxc8lBuK~T4^. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 251234
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 203804.4003, Layer 4 to 5 Message = 4h=qGzP&Yxc8lBuK~T4^
Setting comp seqnum from 0 to 1
A timed out. Sending packet with segnum 0, and checksum 251234 again
B gettin' a packet with seqnum 0, and checksum 251234
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 251234
Not corrupt, but bad sequence number, sending next boi
A: 204468.9388, Layer 5 to 4 Message = 5zbI0u]D+pW>&kR9~fM5
A sending packet with seqnum 1 and checksum 229871
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 229871 again
A timed out. Sending packet with seqnum 1, and checksum 229871 again
A timed out. Sending packet with seqnum 1, and checksum 229871 again
   206131.7069, Layer 5 to 4 Message = 6x(~wpibZSLE=6x(~wpi
A timed out. Sending packet with seqnum 1, and checksum 229871 again
B gettin' a packet with segnum 1, and checksum 229871
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
\ensuremath{\mathtt{B}} sending message up to layer 5 and updating newest recieved data
B: 206475.8410, Layer 4 to 5 Message = 5zbI0u]D+pW>&kR9~fM5
Setting comp seqnum from 1 to 0
A: 206945.8658, Layer 5 to 4 Message = d7LVaku!, 6AK2'jt~+5?
A timed out. Sending packet with seqnum 1, and checksum 229871 again
B gettin' a packet with seqnum -2130706431, and checksum 196847
Packet Corrupt!
Recieved checksum: 196847, segnum: -2130706431, acknum: 0
Recieved packet data is: 5zbIOu]D+pW>&kR9~fM5
Expected checksum: -2096922129
Packet Corrupt!
Recieved checksum: 196847, segnum: -2130706431, acknum: 0
Recieved packet data is: 5zbIOu]D+pW>&kR9~fM5
Expected checksum: -2096922129
Packet corrupt
Sending bACK a NAK!
```

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Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, segnum: 0, acknum: 0
Recieved packet data is: NAK"
Expected checksum: -472
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 229871
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 0
Recieved packet data is: NAK"
Expected checksum: -472
A: no valid ACK, got NAK" instead with corruption. Resending packet with
checksum 229871 and data 5zbIOu]D+pW>&kR9~fM5.
B gettin' a packet with seqnum 1, and checksum 229871
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 229871
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 6x(~wpibZSLE=6x(~wpi
A sending packet with segnum 0 and checksum 271514 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 271514 again
B gettin' a packet with segnum 0, and checksum 271514
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   207553.0929, Layer 4 to 5 Message = 6x(\sim wpibZSLE=6x(\sim wpi
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: d7LVaku!,6AK2`jt~+5?
A sending packet with seqnum 1 and checksum 219548 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 219548
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 207578.3474, Layer 4 to 5 Message = d7LVaku!,6AK2`jt~+5?
Setting comp_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 208456.6555, Layer 5 to 4 Message = 8T8.Jf$?[w5Qm+Gc~<Xt
A sending packet with seqnum 0 and checksum 252411
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 252411
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 208467.3507, Layer 4 to 5 Message = 8T8.Jf$?[w5Qm+Gc~<Xt
Setting comp segnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 252411 again
B gettin' a packet with segnum 0, and checksum 252411
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```
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 252411
Not corrupt, but bad sequence number, sending next boi
A: 209102.1681, Layer 5 to 4 Message = 9g693a0^-Z*W'T$Q~N{K}
A sending packet with segnum 1 and checksum 233163
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 233163
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   209109.3932, Layer 4 to 5 Message = 99693a0^-Z*W'T$Q~N\{K
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 210639.3737, Layer 5 to 4 Message = :yZ;:[<{]=|^>} ?^{A}!
A sending packet with segnum 0 and checksum 236594
A sending packet to B
B gettin' a packet with segnum 0, and checksum 236594
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 210664.8614, Layer 4 to 5 Message = :yZ;:[<{]=|^>} ?^{A}!
Setting comp_seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 236594 again
B gettin' a packet with segnum 0, and checksum 236594
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 236594
Not corrupt, but bad sequence number, sending next boi
A: 212332.3305, Layer 5 to 4 Message = ;f~qd;I;.~qdVI3.~qdV
A sending packet with segnum 1 and checksum 255330
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 255330 again
B gettin' a packet with segnum 1, and checksum 255330
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 212834.1942, Layer 4 to 5 Message = ;f~qd;I;.~qdVI3.~qdV
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 214287.4830, Layer 5 to 4 Message = \langle AEIMQ \langle Y^bfjnrvz \sim \% \rangle -
A sending packet with seqnum 0 and checksum 240448
A sending packet to B
B gettin' a packet with segnum 0, and checksum 240448
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 214291.4869, Layer 4 to 5 Message = <AEIMQ<Y^bfjnrvz~%)-
```

```
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 215854.2764, Layer 5 to 4 Message = Si \sim 6Lb = xEZp (Si \sim 6Lb
A sending packet with seqnum 1 and checksum 244527
A sending packet to B
B gettin' a packet with segnum 1, and checksum 244527
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 215867.8274, Layer 4 to 5 Message = =Si\sim6Lb=xEZp(=Si\sim6Lb
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
    216651.7272, Layer 5 to 4 Message = dfxVGn7>(Ov2gOW~Ho8
A sending packet with seqnum 0 and checksum 236974
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 236974
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 216657.2764, Layer 4 to 5 Message = dfxVGn7>(Ov2q0W~Ho8
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 218210.5913, Layer 5 to 4 Message = ?xS.gBzU0?D|W2kF~Y4m
A sending packet with seqnum 1 and checksum 248713
A sending packet to B
B gettin' a packet with segnum 1, and checksum 248713
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   218221.6210, Layer 4 to 5 Message = ?xS.gBzU0?D|W2kF~Y4m
Setting comp segnum from 1 to 0
A: 218339.9053, Layer 5 to 4 Message = A-wdP<)s`LA%o[H4~kWD
A timed out. Sending packet with seqnum 1, and checksum 248713 again
B gettin' a packet with seqnum 1, and checksum 248713
Packet Corrupt!
Recieved checksum: 248713, segnum: 1, acknum: 0
Recieved packet data is: ?xS.gBzUD?0|W2kF~Y4m
Expected checksum: 247913
Packet Corrupt!
Recieved checksum: 248713, seqnum: 1, acknum: 0
Recieved packet data is: ?xS.gBzUD?0|W2kF~Y4m
Expected checksum: 247913
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 248713
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: A-wdP<)s`LA%o[H4~kWD
A sending packet with segnum 0 and checksum 240733 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 240733
```

```
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 218754.9823, Layer 4 to 5 Message = A-wdP<)s`LA%o[H4~kWD
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 219878.3580, Layer 5 to 4 Message = B?=;97531x-B)'%#~|zx
A sending packet with segnum 1 and checksum 242411
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 242411
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   219885.7004, Layer 4 to 5 Message = B?=:97531x-B)'% + \sim |zx|
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 242411 again
B gettin' a packet with segnum 1, and checksum 242411
Packet Corrupt!
Recieved checksum: 242411, segnum: 1, acknum: 15616
Recieved packet data is: B?
Expected checksum: 210630
Packet Corrupt!
Recieved checksum: 242411, segnum: 1, acknum: 15616
Recieved packet data is: B?
Expected checksum: 210630
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 242411 again
A: 220906.8499, Layer 5 to 4 Message = CRbq#2BQap!1CP`o~0?0
A timed out. Sending packet with segnum 1, and checksum 242411 again
B gettin' a packet with segnum 1, and checksum 242411
Packet Corrupt!
Recieved checksum: 242411, seqnum: 1, acknum: 4325376
Recieved packet data is:
Expected checksum: -8408407
Packet Corrupt!
Recieved checksum: 242411, seqnum: 1, acknum: 4325376
Recieved packet data is:
Expected checksum: -8408407
Packet corrupt
Sending bACK a NAK!
    221755.6166, Layer 5 to 4 Message = De(Ij-No2St7XD<^~Bc&
A timed out. Sending packet with segnum 1, and checksum 242411 again
B gettin' a packet with seqnum 1, and checksum 242411
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 242411
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: CRbq#2BQap!1CP`o~0?0
A sending packet with segnum 0 and checksum 227535 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 227535
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
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B sending message up to layer 5 and updating newest recieved data
B: 221935.1723, Layer 4 to 5 Message = CRbq#2BQap!1CP`o~0?0
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 227535 again
A timed out. Sending packet with seqnum 0, and checksum 227535 again
B gettin' a packet with seqnum 0, and checksum 227535
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 227535 again
B gettin' a packet with segnum 0, and checksum 227535
Packet Corrupt!
Recieved checksum: 227535, seqnum: 0, acknum: 0
Recieved packet data is: qRbC#2BQap!1CP`o~0?0
Expected checksum: 226845
Packet Corrupt!
Recieved checksum: 227535, segnum: 0, acknum: 0
Recieved packet data is: qRbC#2BQap!1CP`o~0?0
Expected checksum: 226845
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 4915200
Recieved packet data is: NA
Expected checksum: -9830136
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 227535
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 4915200
Recieved packet data is: NA
Expected checksum: -9830136
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 227535 and data CRbq#2BQap!1CP`o~0?0.
A: 223585.9688, Layer 5 to 4 Message = EfL~S(Zxb6i=pEEL~S(Z
A timed out. Sending packet with seqnum 0, and checksum 227535 again
B gettin' a packet with seqnum 0, and checksum 227535
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 227535
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: De(Ij-No2St7XD<^~Bc&
A sending packet with seqnum 1 and checksum 225929 from the queue
A sending packet to B
A: 223971.7111, Layer 5 to 4 Message = d,pV<#gM3w^D2nTF~eK1
B gettin' a packet with seqnum 1, and checksum 225929
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 223997.9363, Layer 4 to 5 Message = De(Ij-No2St7XD<^~Bc&
Setting comp\_seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 225929 again
B gettin' a packet with segnum 1, and checksum 225929
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
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```
A timed out. Sending packet with seqnum 1, and checksum 225929 again
A: 224975.0171, Layer 5 to 4 Message = G>6.&{skcZRJB91}Gvnf
B gettin' a packet with seqnum 1, and checksum 225929
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A: 225182.5545, Layer 5 to 4 Message = HQZdmv!+4=GPYclu\sim H3<
A timed out. Sending packet with seqnum 1, and checksum 225929 again
B gettin' a packet with segnum 1, and checksum 225929
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 4836
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 225929
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 4836
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 225929 and data De(Ij-No2St7XD<^~Bc&.
B gettin' a packet with seqnum 1, and checksum 225929
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 225929 again
B gettin' a packet with seqnum 1, and checksum 225929
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 225929 again
B gettin' a packet with segnum 1, and checksum 225929
Packet Corrupt!
Recieved checksum: 225929, seqnum: 1, acknum: 1140850688
Recieved packet data is: De(Ij-No2St7X
Expected checksum: 2013478521
Packet Corrupt!
Recieved checksum: 225929, seqnum: 1, acknum: 1140850688
Recieved packet data is: De(Ij-No2St7X
Expected checksum: 2013478521
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 225929
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: EfL~S(Zxb6i=pEEL~S(Z
A sending packet with segnum 0 and checksum 234711 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 234711
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 226536.2062, Layer 4 to 5 Message = EfL~S(Zxb6i=pEEL~S(Z
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
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Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: d,pV<#gM3w^D2nTF~eK1
A sending packet with seqnum 1 and checksum 235161 from the queue
A sending packet to B
A: 226939.9773, Layer 5 to 4 Message = Id~; Vq.Id~; Vq.Id~; Iq
A: 227014.1600, Layer 5 to 4 Message = JvEq?1:g5b0]+W&R\sim MyJ
A timed out. Sending packet with segnum 1, and checksum 235161 again
A timed out. Sending packet with seqnum 1, and checksum 235161 again
    227802.4143, Layer 5 to 4 Message = K+iI)gG'eE%cC#aA~ >|
A timed out. Sending packet with seqnum 1, and checksum 235161 again
B gettin' a packet with segnum 1, and checksum 235161
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   228080.6382, Layer 4 to 5 Message = d_pV<#qM3w^D2nTF~eK1
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: G>6.&{skcZRJB91)Gvnf
A sending packet with segnum 0 and checksum 240030 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 240030
Packet Corrupt!
Recieved checksum: 240030, seqnum: 0, acknum: 0
Recieved packet data is: G>6.&{skcZRnB91)GvJf
Expected checksum: 232218
Packet Corrupt!
Recieved checksum: 240030, seqnum: 0, acknum: 0
Recieved packet data is: G>6.&{skcZRnB91)GvJf
Expected checksum: 232218
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 240030 and data G>6.&{skcZRJB91)Gvnf. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 240030
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 228141.5665, Layer 4 to 5 Message = G>6.&{skcZRJB91}Gvnf
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: HQZdmv!+4=GPYclu~H3<
A sending packet with segnum 1 and checksum 235347 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 235347 again
A timed out. Sending packet with seqnum 1, and checksum 235347 again
B gettin' a packet with seqnum 1, and checksum 235347
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 229150.2907, Layer 4 to 5 Message = HQZdmv!+4=GPYclu~H3<
Setting comp segnum from 1 to 0
    229162.5226, Layer 5 to 4 Message = LLx~pbSE6(wiZL=x~pbS
A timed out. Sending packet with seqnum 1, and checksum 235347 again
```

```
B gettin' a packet with seqnum 1, and checksum 235347
Packet Corrupt!
Recieved checksum: 235347, seqnum: 1, acknum: 0
Recieved packet data is: HQZdmv!+4=<PYclu~H3G
Expected checksum: 238416
Packet Corrupt!
Recieved checksum: 235347, seqnum: 1, acknum: 0
Recieved packet data is: HQZdmv!+4=<PYclu~H3G
Expected checksum: 238416
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 235347 again
B gettin' a packet with segnum 1, and checksum 235347
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -13936
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 235347
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -13936
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 235347 and data HQZdmv!+4=GPYclu~H3<.
A timed out. Sending packet with seqnum 1, and checksum 235347 again
B gettin' a packet with segnum 1, and checksum 235347
Packet Corrupt!
Recieved checksum: 235347, seqnum: 1, acknum: 0
Recieved packet data is: HQZdmv!+4=PGYclu~H3<
Expected checksum: 235140
Packet Corrupt!
Recieved checksum: 235347, seqnum: 1, acknum: 0
Recieved packet data is: HQZdmv!+4=PGYclu~H3<
Expected checksum: 235140
Packet corrupt
Sending bACK a NAK!
   231088.8015, Layer 5 to 4 Message = dPMVY] `cfilo2ux{~$'*
A timed out. Sending packet with seqnum 1, and checksum 235347 again
A timed out. Sending packet with segnum 1, and checksum 235347 again
B gettin' a packet with seqnum 1, and checksum 235347
Packet Corrupt!
Recieved checksum: 235347, seqnum: 1, acknum: 0
Recieved packet data is: HQZdmv!+4=GPYcluH~3<
Expected checksum: 237237
Packet Corrupt!
Recieved checksum: 235347, seqnum: 1, acknum: 0
Recieved packet data is: HQZdmv!+4=GPYcluH~3<
Expected checksum: 237237
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 235347 again
B gettin' a packet with segnum 1, and checksum 235347
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
```

```
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 235347
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Id~; Vq.Id~; Vq.Id~; Iq
A sending packet with segnum 0 and checksum 253062 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 253054
Packet Corrupt!
Recieved checksum: 253054, seqnum: 0, acknum: 0
Recieved packet data is: Id~; Vq.Id+; Vq.Id~; Iq
Expected checksum: 228262
Packet Corrupt!
Recieved checksum: 253054, seqnum: 0, acknum: 0
Recieved packet data is: Id~; Vq.Id†; Vq.Id~; Iq
Expected checksum: 228262
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 1461
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 1461
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 253062 and data Id~; Vq.Id~; Vq.Id~; Iq.
B gettin' a packet with seqnum 0, and checksum 253062
Packet Corrupt!
Recieved checksum: 253062, seqnum: 0, acknum: 7405568
Recieved packet data is: Id~; V
Expected checksum: -14562142
Packet Corrupt!
Recieved checksum: 253062, seqnum: 0, acknum: 7405568
Recieved packet data is: Id~; V
Expected checksum: -14562142
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 253062 and data Id~; Vq.Id~; Vq.Id~; Iq. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 253062
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   232295.2708, Layer 4 to 5 Message = Id~; Vq.Id~; Vq.Id~; Iq
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 161, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1436
Bad ACK or NAK determined by A
Packet Corrupt!
```

```
Recieved checksum: 161, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1436
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 253062 and data Id~; Vq.Id~; Vq.Id~; Iq.
A timed out. Sending packet with seqnum 0, and checksum 253062 again
A: 232851.6400, Layer 5 to 4 Message = NfwNCWl#7Lau,A3j~5J
A timed out. Sending packet with segnum 0, and checksum 253062 again
B gettin' a packet with segnum 0, and checksum 253062
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: -15721
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 253062
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: -15721
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 253062 and data Id~; Vq.Id~; Vq.Id~; Iq.
B gettin' a packet with segnum 0, and checksum 253062
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 253062
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: JvEq?1:g5b0]+W&R~MyJ
A sending packet with segnum 1 and checksum 239595 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 239595
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 233397.4171, Layer 4 to 5 Message = JvEq?1:g5b0]+W&R~MyJ
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 66468, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 929
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 239595
Packet Corrupt!
Recieved checksum: 66468, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 929
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 239595 and data JvEq?1:g5b0]+W&R~MyJ.
B gettin' a packet with seqnum 1, and checksum 239595
```

```
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A: 233558.0009, Layer 5 to 4 Message = Ou=dORxAgxU{Dj2X~Gm5
A timed out. Sending packet with seqnum 1, and checksum 239595 again
B gettin' a packet with seqnum 1, and checksum 239595
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 4259840
Recieved packet data is: N
Expected checksum: -8519004
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 239595
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 4259840
Recieved packet data is: N
Expected checksum: -8519004
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 239595 and data JvEq?l:g5b0]+W&R~MyJ.
B gettin' a packet with seqnum 1, and checksum 239595
Packet Corrupt!
Recieved checksum: 239595, segnum: 1, acknum: 0
Recieved packet data is: yvEq?l:g5b0]+W&R~MJJ
Expected checksum: 222675
Packet Corrupt!
Recieved checksum: 239595, seqnum: 1, acknum: 0
Recieved packet data is: yvEq?l:g5b0]+W&R~MJJ
Expected checksum: 222675
Packet corrupt
Sending bACK a NAK!
   234056.3407, Layer 5 to 4 Message = P*b;sP' 8pJ$[5mG~X2j
A timed out. Sending packet with seqnum 1, and checksum 239595 again
B gettin' a packet with seqnum 1, and checksum 211691
Packet Corrupt!
Recieved checksum: 211691, seqnum: 1, acknum: 0
Recieved packet data is: JvEq?l$g5b0]+W&R~MyJ
Expected checksum: 232392
Packet Corrupt!
Recieved checksum: 211691, segnum: 1, acknum: 0
Recieved packet data is: JvEq?l§g5b0]+W&R~MyJ
Expected checksum: 232392
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 239595
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: K+iI)gG'eE%cC#aA~ >|
A sending packet with seqnum 0 and checksum 242629 from the queue
A sending packet to B
B gettin' a packet with segnum 4521984, and checksum 242629
Packet Corrupt!
Recieved checksum: 242629, segnum: 4521984, acknum: 0
Recieved packet data is: K+iI)gG'e
Expected checksum: 13801681
```

```
Packet Corrupt!
Recieved checksum: 242629, seqnum: 4521984, acknum: 0
Recieved packet data is: K+iI) qG'e
Expected checksum: 13801681
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 242629 and data K+iI) qG'eE%cC#aA~ >|. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 242629
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 234466.2905, Layer 4 to 5 Message = K+iI)gG'eE%cC#aA~ >|
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 242629 again
B gettin' a packet with seqnum 0, and checksum 242629
Packet Corrupt!
Recieved checksum: 242629, segnum: 0, acknum: 0
Recieved packet data is: K+iI)gG'eEc%C#aA~ >|
Expected checksum: 241203
Packet Corrupt!
Recieved checksum: 242629, segnum: 0, acknum: 0
Recieved packet data is: K+iI)gG'eEc%C#aA~ >|
Expected checksum: 241203
Packet corrupt
Sending bACK a NAK!
    235054.0163, Layer 5 to 4 Message = Q<(q]HQ|hS>*s_J5~jUA
A: 235424.6288, Layer 5 to 4 Message = ROLIFC?R9630-\frac{1}{x}'$~{xu
A timed out. Sending packet with seqnum 0, and checksum 242629 again
B gettin' a packet with segnum 0, and checksum 242629
Packet Corrupt!
Recieved checksum: 242629, seqnum: 0, acknum: 0
Recieved packet data is: K+iI)EG'eg%cC#aA~ >|
Expected checksum: 244805
Packet Corrupt!
Recieved checksum: 242629, seqnum: 0, acknum: 0
Recieved packet data is: K+iI)EG'eg%cC#aA~ >|
Expected checksum: 244805
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 78, acknum: 0
Recieved packet data is: AK
Expected checksum: 1093
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 78. last transmitted seqnum: 0
Last sent packet Checksum: 242629
Packet Corrupt!
Recieved checksum: 939, seqnum: 78, acknum: 0
Recieved packet data is: AK
Expected checksum: 1093
A: no valid ACK, got AK instead with corruption. Resending packet with
checksum 242629 and data K+iI)gG'eE%cC#aA~ >|.
A timed out. Sending packet with segnum 0, and checksum 242629 again
A: 236307.7022, Layer 5 to 4 Message = Sbp~x=LZSw(6ESbp~x=L
A timed out. Sending packet with seqnum 0, and checksum 242629 again
```

```
B gettin' a packet with seqnum 0, and checksum 242629
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 242629
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: LLx~pbSE6(wiZL=x~pbS
A sending packet with segnum 1 and checksum 271937 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 271937
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 236513.3635, Layer 4 to 5 Message = LLx~pbSE6(wiZL=x~pbS
Setting comp seqnum from 1 to 0
A: 236527.5429, Layer 5 to 4 Message = dt6Vv8Xx:Tz<2|> ~Aa#
   236705.9212, Layer 5 to 4 Message = U)Z.`3e8j=UCtHyM~R&W 236709.3187, Layer 5 to 4 Message = V;~dI.qV;~dV.qV;~dI.
A timed out. Sending packet with seqnum 1, and checksum 271937 again
B gettin' a packet with seqnum 126, and checksum 271937
Packet Corrupt!
Recieved checksum: 271937, segnum: 126, acknum: 0
Recieved packet data is: LLx~pbSE6(wiZL=x pbS
Expected checksum: 236187
Packet Corrupt!
Recieved checksum: 271937, seqnum: 126, acknum: 0
Recieved packet data is: LLx~pbSE6(wiZL=x pbS
Expected checksum: 236187
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 11661
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 271937
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 11661
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 271937 and data LLx~pbSE6(wiZL=x~pbS.
A timed out. Sending packet with seqnum 1, and checksum 271937 again
B gettin' a packet with seqnum 1, and checksum 271937
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 271937
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dPMVY] `cfilo2ux{~$'*
A sending packet with segnum 0 and checksum 235666 from the queue
```

```
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 235666
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 237555.5407, Layer 4 to 5 Message = dPMVY] cfilo2ux{~$'*
Setting comp seqnum from 0 to 1
A: 237812.4811, Layer 5 to 4 Message = WfE;2)}tkbXOW<3*~ulc
A timed out. Sending packet with segnum 0, and checksum 235666 again
A timed out. Sending packet with segnum 0, and checksum 235666 again
B gettin' a packet with segnum 0, and checksum 235666
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1192
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1192
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 235666 and data dPMVY] `cfilo2ux{~$'*.
A timed out. Sending packet with seqnum 0, and checksum 235666 again
A: 239089.5787, Layer 5 to 4 Message = Xaiqy\$, 4 < EMU^Xnv^-)19
A: 239245.8613, Layer 5 to 4 Message = YsxIc | 8Rl (B[u1Ye~:Tn
A timed out. Sending packet with seqnum 0, and checksum 235666 again
B gettin' a packet with seqnum 0, and checksum 235666
Packet Corrupt!
Recieved checksum: 235666, segnum: 0, acknum: 0
Recieved packet data is: bPMVY] `cfilo3$x{~u'*
Expected checksum: 246201
Packet Corrupt!
Recieved checksum: 235666, seqnum: 0, acknum: 0
Recieved packet data is: bPMVY] `cfilo3$x{~u'*
Expected checksum: 246201
Packet corrupt
Sending bACK a NAK!
   239886.2844, Layer 5 to 4 Message = Z(S~LwEp=i6bxZ(Z~LwE
A timed out. Sending packet with segnum 0, and checksum 235666 again
A timed out. Sending packet with seqnum 0, and checksum 235666 again
B gettin' a packet with seqnum 0, and checksum 235666
Packet Corrupt!
Recieved checksum: 235666, seqnum: 0, acknum: 7274496
Recieved packet data is: bPMVY]`cfil
Expected checksum: -14329143
Packet Corrupt!
Recieved checksum: 235666, seqnum: 0, acknum: 7274496
Recieved packet data is: bPMVY]`cfil
Expected checksum: -14329143
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 235666
Not corrupt, but bad sequence number, sending next boi
```

```
Data being dequeued: NfwNCWl#7Lau,A3j~5J
A sending packet with seqnum 1 and checksum 232797 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 232797
Packet Corrupt!
Recieved checksum: 232797, seqnum: 1, acknum: 2113929216
Recieved packet data is: NfwNCWl#7Lau,A3j
Expected checksum: 67305247
Packet Corrupt!
Recieved checksum: 232797, segnum: 1, acknum: 2113929216
Recieved packet data is: NfwNCWl#7Lau, A3j
Expected checksum: 67305247
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 846, seqnum: 1, acknum: 0
Recieved packet data is: «AK
Expected checksum: 776
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 846, seqnum: 1, acknum: 0
Recieved packet data is: «AK
Expected checksum: 776
A: no valid ACK, got «AK instead with corruption. Resending packet with
checksum 232797 and data NfwNCWl#7Lau, A3j~5J .
A timed out. Sending packet with seqnum 1, and checksum 232797 again
B gettin' a packet with segnum 1, and checksum 232797
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   241121.4806, Layer 4 to 5 Message = NfwNCWl#7Lau,A3j~5J
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Ou=dORxAgxU{Dj2X~Gm5
A sending packet with seqnum 0 and checksum 251939 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 251939
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 241164.3087, Layer 4 to 5 Message = Ou=dORxAgxU{Dj2X~Gm5
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: -1593834752, segnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 929
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: -1593834752, segnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 929
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 251939 and data Ou=dORxAgxU{Dj2X~Gm5.
A: 241315.1221, Layer 5 to 4 Message = d:wV5rQ0mL+h2&cB[^{<}y
A timed out. Sending packet with seqnum 0, and checksum 251939 again
B gettin' a packet with segnum 0, and checksum 251939
```

```
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 16777216, acknum: 0
Recieved packet data is: NAK
Expected checksum: 50332584
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 16777216. last transmitted segnum: 0
Last sent packet Checksum: 251939
Packet Corrupt!
Recieved checksum: 939, seqnum: 16777216, acknum: 0
Recieved packet data is: NAK
Expected checksum: 50332584
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 251939 and data Ou=dORxAgxU{Dj2X~Gm5.
B gettin' a packet with seqnum 0, and checksum 251939
Packet Corrupt!
Recieved checksum: 251939, segnum: 0, acknum: 1426063360
Recieved packet data is: Ou=dORxAgx
Expected checksum: 1443082230
Packet Corrupt!
Recieved checksum: 251939, segnum: 0, acknum: 1426063360
Recieved packet data is: Ou=dORxAqx
Expected checksum: 1443082230
Packet corrupt
Sending bACK a NAK!
A: 242170.7032, Layer 5 to 4 Message = ]M=.|m^N>x}n O?0~]`P
A timed out. Sending packet with seqnum 0, and checksum 251939 again
B gettin' a packet with segnum 0, and checksum 251939
Packet Corrupt!
Recieved checksum: 251939, segnum: 0, acknum: 0
Recieved packet data is: Ou=dORxAgxU{D52X~Gmj
Expected checksum: 262751
Packet Corrupt!
Recieved checksum: 251939, seqnum: 0, acknum: 0
Recieved packet data is: Ou=dORxAgxU{D52X~Gmj
Expected checksum: 262751
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, segnum: 1, acknum: 43776
Recieved packet data is: NAK
Expected checksum: -86613
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 251939
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 43776
Recieved packet data is: NAK
Expected checksum: -86613
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 251939 and data Ou=dORxAgxU{Dj2X~Gm5.
B gettin' a packet with segnum 0, and checksum 251939
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
```

Recieved an ACK/NAK...Checking response...

```
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 251939
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: P*b;sP' 8pJ$[5mG~X2j
A sending packet with seqnum 1 and checksum 239464 from the queue
A sending packet to B
   242649.7699, Layer 5 to 4 Message = ^`bdfhjlnprtvxz|~#^'
A:
A timed out. Sending packet with segnum 1, and checksum 239464 again
B gettin' a packet with segnum 1, and checksum 239464
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 242777.6660, Layer 4 to 5 Message = P*b;sP' 8pJ$[5mG~X2j
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1185
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 239464
Packet Corrupt!
Recieved checksum: 932, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1185
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 239464 and data P*b;sP' 8pJ$[5mG~X2j.
B gettin' a packet with segnum 1, and checksum 239464
Packet Corrupt!
Recieved checksum: 239464, seqnum: 1, acknum: 0
Recieved packet data is: Pjb;sP' 8pJ$[5mG~X2*
Expected checksum: 214120
Packet Corrupt!
Recieved checksum: 239464, seqnum: 1, acknum: 0
Recieved packet data is: Pjb;sP' 8pJ$[5mG~X2*
Expected checksum: 214120
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 239464
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Q<(q]HQ|hS>*s J5~jUA
A sending packet with segnum 0 and checksum 245224 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 245224
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 242819.3653, Layer 4 to 5 Message = Q<(q]HQ|hS>*s J5~jUA
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
```

```
Data being dequeued: ROLIFC?R9630-*'$~{xu
A sending packet with seqnum 1 and checksum 237987 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 237987
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 242828.8833, Layer 4 to 5 Message = ROLIFC?R9630-*'$~{xu}
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Sbp~x=LZSw(6ESbp~x=L
A sending packet with segnum 0 and checksum 255707 from the queue
A sending packet to B
B gettin' a packet with seqnum 98, and checksum 255707
Packet Corrupt!
Recieved checksum: 255707, seqnum: 98, acknum: 0
Recieved packet data is: Sbp~x=LZSw(6ES
Expected checksum: 233951
Packet Corrupt!
Recieved checksum: 255707, segnum: 98, acknum: 0
Recieved packet data is: Sbp~x=LZSw(6ES
Expected checksum: 233951
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 5941
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 5941
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 255707 and data Sbp~x=LZSw (6ESbp~x=L.
B gettin' a packet with seqnum 0, and checksum 255707
Packet Corrupt!
Recieved checksum: 255707, seqnum: 0, acknum: 2621440
Recieved packet data is: Sbp~x=LZSw
Expected checksum: -4992013
Packet Corrupt!
Recieved checksum: 255707, seqnum: 0, acknum: 2621440
Recieved packet data is: Sbp~x=LZSw
Expected checksum: -4992013
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 255707 and data Sbp~x=LZSw(6ESbp~x=L. corrupted from
A to B, resending
A: 242939.1530, Layer 5 to 4 Message = _r(;Ocv,?Sgz0DWk~4H)
A timed out. Sending packet with seqnum 0, and checksum 255707 again
B gettin' a packet with segnum 0, and checksum 255707
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 243383.0802, Layer 4 to 5 Message = Sbp~x=LZSw(6ESbp~x=L
```

```
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dt6Vv8Xx:Tz<2|> ~Aa#
A sending packet with seqnum 1 and checksum 233325 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 233311
Packet Corrupt!
Recieved checksum: 233311, seqnum: 1, acknum: 0
Recieved packet data is: bt6Vv8Xx:Tz<3|>m~Aa#
Expected checksum: 237076
Packet Corrupt!
Recieved checksum: 233311, seqnum: 1, acknum: 0
Recieved packet data is: bt6Vv8Xx:Tz<3|>m~Aa#
Expected checksum: 237076
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 233325 and data dt6Vv8Xx:Tz<2|> ~Aa#. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 233325
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 243452.1744, Layer 4 to 5 Message = dt6Vv8Xx:Tz<2|> ~Aa#
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1290
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 233325
Packet Corrupt!
Recieved checksum: 932, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1290
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 233325 and data dt6Vv8Xx:Tz<2|> ~Aa#.
A timed out. Sending packet with segnum \overline{1}, and checksum 233325 again
B gettin' a packet with seqnum 1, and checksum 233325
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 233325 again A: 244661.5243, Layer 5 to 4 Message = `'Lq8^%Jo6[#Hm4Y~Fk2
A timed out. Sending packet with seqnum 1, and checksum 233325 again
B gettin' a packet with seqnum 1, and checksum 233325
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 233325
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: U)Z.`3e8j=UCtHyM~R&W
```

```
A sending packet with seqnum 0 and checksum 241259 from the queue
A sending packet to B
A timed out. Sending packet with segnum 0, and checksum 241259 again
B gettin' a packet with seqnum 6946816, and checksum 241259
Packet Corrupt!
Recieved checksum: 241259, seqnum: 6946816, acknum: 0
Recieved packet data is: U) Z. `3e8
Expected checksum: 21073121
Packet Corrupt!
Recieved checksum: 241259, segnum: 6946816, acknum: 0
Recieved packet data is: U) Z. `3e8
Expected checksum: 21073121
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 241259 and data U)Z. 3e8j=UCtHyM~R&W. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 241259
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 245512.4667, Layer 4 to 5 Message = U)Z.`3e8j=UCtHyM~R&W
Setting comp segnum from 0 to 1
A: 245545.6530, Layer 5 to 4 Message = aapI!X1hAwP) 83H\sim W0q
A timed out. Sending packet with seqnum 0, and checksum 241259 again
B gettin' a packet with seqnum 0, and checksum 241259
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 65536, acknum: 0
Recieved packet data is: NAK
Expected checksum: 197544
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 65536. last transmitted seqnum: 0
Last sent packet Checksum: 241259
Packet Corrupt!
Recieved checksum: 939, seqnum: 65536, acknum: 0
Recieved packet data is: NAK
Expected checksum: 197544
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 241259 and data U) Z. `3e8j=UCtHyM~R&W.
B gettin' a packet with seqnum 0, and checksum 241259
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 241259 again
A timed out. Sending packet with seqnum 0, and checksum 241259 again
B gettin' a packet with segnum 0, and checksum 241259
Packet Corrupt!
Recieved checksum: 241259, seqnum: 0, acknum: 0
Recieved packet data is: U) Z. `3C8j=UetHyM~R&W
Expected checksum: 244489
Packet Corrupt!
Recieved checksum: 241259, seqnum: 0, acknum: 0
Recieved packet data is: U) Z. `3C8j=UetHyM~R&W
Expected checksum: 244489
Packet corrupt
Sending bACK a NAK!
```

```
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 241259
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: V;~dI.qV;~dV.qV;~dI.
A sending packet with segnum 1 and checksum 237310 from the queue
A sending packet to B
    247467.5523, Layer 5 to 4 Message = bLb~iS=(pZExwbL6~iS=
A:
   247532.7624, Layer 5 to 4 Message = d ZcRNJFB=952-)%~zvr
A timed out. Sending packet with seqnum 1, and checksum 237310 again
A timed out. Sending packet with seqnum 1, and checksum 237310 again
B gettin' a packet with segnum 1, and checksum 237310
Packet Corrupt!
Recieved checksum: 237310, segnum: 1, acknum: 0
Recieved packet data is: Vd~;I.qV;~dV.qV;~dI.
Expected checksum: 236818
Packet Corrupt!
Recieved checksum: 237310, segnum: 1, acknum: 0
Recieved packet data is: Vd~;I.qV;~dV.qV;~dI.
Expected checksum: 236818
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 237310 again
B gettin' a packet with segnum 1, and checksum 237310
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 248576.4684, Layer 4 to 5 Message = V; ~dI.qV; ~dV.qV; ~dI.
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: WfE;2)}tkbXOW<3*~ulc
A sending packet with segnum 0 and checksum 260349 from the queue
A sending packet to B
B gettin' a packet with seqnum 27648, and checksum 260349
Packet Corrupt!
Recieved checksum: 260349, seqnum: 27648, acknum: 0
Recieved packet data is: WfE;2) }tkbXOW<3*~u
Expected checksum: 304305
Packet Corrupt!
Recieved checksum: 260349, segnum: 27648, acknum: 0
Recieved packet data is: WfE; 2) } tkbXOW < 3 * ~ u
Expected checksum: 304305
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 260349 and data WfE;2) tkbXOW<3*~ulc. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 260349
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 248626.8287, Layer 4 to 5 Message = WfE;2)}tkbXOW<3*~ulc
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
```

```
Sending next data from the queue!
Data being dequeued: Xaiqy$,4<EMU^Xnv~)19
A sending packet with seqnum 1 and checksum 224556 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 224556
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 248644.6961, Layer 4 to 5 Message = Xaiqy$, 4 < EMU^Xnv^2) 19
Setting comp seqnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 224556 again
B gettin' a packet with segnum 1, and checksum 224556
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 4259840
Recieved packet data is: N
Expected checksum: -8519004
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 224556
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 4259840
Recieved packet data is: N
Expected checksum: -8519004
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 224556 and data Xaiqy$,4<EMU^Xnv~)19.
A: 249520.2799, Layer 5 to 4 Message = dq~.dIVdq~.;IVdq~.;I
A timed out. Sending packet with seqnum 1, and checksum 224556 again
B gettin' a packet with segnum 1, and checksum 224556
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A: 250091.5062, Layer 5 to 4 Message = e&Ed%ec$Cb#Ba!A`~?}
A timed out. Sending packet with seqnum 1, and checksum 224556 again
B gettin' a packet with seqnum 1, and checksum 224556
Packet Corrupt!
Recieved checksum: 224556, seqnum: 1, acknum: 0
Recieved packet data is: 4aiqy$, X<EMU^Xnv~)19
Expected checksum: 226824
Packet Corrupt!
Recieved checksum: 224556, seqnum: 1, acknum: 0
Recieved packet data is: 4aiqy$, X<EMU^Xnv~)19
Expected checksum: 226824
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 0
Recieved packet data is: NAK"
Expected checksum: -472
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 224556
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 0
Recieved packet data is: NAK"
Expected checksum: -472
```

```
A: no valid ACK, got NAK" instead with corruption. Resending packet with
checksum 224556 and data Xaiqy$,4<EMU^Xnv~)19.
B gettin' a packet with seqnum 1, and checksum 224556
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 224556
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: YsxIc|8Rl(B[u1Ye~:Tn
A sending packet with seqnum 0 and checksum 256277 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 256277
Packet Corrupt!
Recieved checksum: 256277, seqnum: 0, acknum: 1845493760
Recieved packet data is: YsxIc|8Rl(B[u1Ye~:T
Expected checksum: 604192053
Packet Corrupt!
Recieved checksum: 256277, seqnum: 0, acknum: 1845493760
Recieved packet data is: YsxIc|8Rl(B[u1Ye~:T
Expected checksum: 604192053
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 1090519040
Recieved packet data is: N
Expected checksum: 2113929892
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 1090519040
Recieved packet data is: N
Expected checksum: 2113929892
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 256277 and data YsxIc|8Rl(B[u1Ye~:Tn.
B gettin' a packet with seqnum 0, and checksum 256277
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 250254.7419, Layer 4 to 5 Message = YsxIc|8R1(B[u1Ye~:Tn
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Z(S~LwEp=i6bxZ(Z~LwE
A sending packet with seqnum 1 and checksum 257316 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 257316
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   250274.3613, Layer 4 to 5 Message = Z(S~LwEp=i6bxZ(Z~LwE
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: d:wV5rQ0mL+h2&cB[^<y
```

A sending packet with segnum 0 and checksum 233664 from the queue

```
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 233664
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 250294.5878, Layer 4 to 5 Message = d:wV5rQ0mL+h2&cB[^<y
Setting comp seqnum from 0 to 1
A timed out. Sending packet with segnum 0, and checksum 233664 again
B gettin' a packet with segnum 0, and checksum 233664
Packet Corrupt!
Recieved checksum: 233664, seqnum: 0, acknum: 0
Recieved packet data is: b:wV5rQ0mL+h&3cB[^<y
Expected checksum: 234182
Packet Corrupt!
Recieved checksum: 233664, seqnum: 0, acknum: 0
Recieved packet data is: b:wV5rQ0mL+h&3cB[^<y
Expected checksum: 234182
Packet corrupt
Sending bACK a NAK!
A: 251158.6213, Layer 5 to 4 Message = f8i;1>fBrEuHxK{N~Q$T
A timed out. Sending packet with seqnum 0, and checksum 233664 again
B gettin' a packet with segnum 0, and checksum 233664
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 233664
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ]M=.|m^N>x}n O?0~]`P
A sending packet with segnum 1 and checksum 257425 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 257425
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 251302.8901, Layer 4 to 5 Message = ]M=.|m^N>x\}n_0?0~] P
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 164, segnum: 50331649, acknum: 1
Recieved packet data is: ACK
Expected checksum: 150995876
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 50331649. last transmitted seqnum: 1
Last sent packet Checksum: 257425
Packet Corrupt!
Recieved checksum: 164, seqnum: 50331649, acknum: 1
Recieved packet data is: ACK
Expected checksum: 150995876
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 257425 and data ]M=.|m^N>x}n O?0~]`P.
A: 251741.6381, Layer 5 to 4 Message = gKxqU9{gD(jN2tX<~cG+
A timed out. Sending packet with seqnum 1, and checksum 257425 again
B gettin' a packet with segnum 1, and checksum 257425
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
```

```
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1011
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 257425
Packet Corrupt!
Recieved checksum: 168, segnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1011
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 257425 and data ]M=.|m^N>x}n O?0~]`P.
B gettin' a packet with seqnum 1, and checksum 196753
Packet Corrupt!
Recieved checksum: 196753, seqnum: 1, acknum: 60672
Recieved packet data is: ]M=.|m^N>x}n O?0~]`P
Expected checksum: 136081
Packet Corrupt!
Recieved checksum: 196753, seqnum: 1, acknum: 60672
Recieved packet data is: ]M=.|m^N>x}n O?0~]`P
Expected checksum: 136081
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 23400
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 257425
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 23400
A: no valid ACK, got instead with corruption. Resending packet with
checksum 257425 and data ]M=.|m^N>x}n O?0~]`P.
B gettin' a packet with segnum 1, and checksum 257425
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 257425
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ^`bdfhjlnprtvxz|~#^'
A sending packet with seqnum 0 and checksum 271835 from the queue
A sending packet to B
   252299.4813, Layer 5 to 4 Message = h^SI>4*}hi TJ?5+~tj`
A timed out. Sending packet with segnum 0, and checksum 271835 again
B gettin' a packet with seqnum 0, and checksum 271835
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 252438.8503, Layer 4 to 5 Message = ^`bdfhjlnprtvxz|~#^'
Setting comp segnum from 0 to 1
```

```
A timed out. Sending packet with seqnum 0, and checksum 271835 again
B gettin' a packet with seqnum 0, and checksum 271835
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 271835 again
B gettin' a packet with seqnum 0, and checksum 271835
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 271835
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: r(;Ocv,?Sgz0DWk~4H
A sending packet with seqnum 1 and checksum 245013 from the queue
 A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 245013 again
B gettin' a packet with segnum 1, and checksum 245013
Packet Corrupt!
Recieved checksum: 245013, seqnum: 1, acknum: 0
Recieved packet data is: g(;Ocv,?Srz0DWk~4H
Expected checksum: 246300
Packet Corrupt!
Recieved checksum: 245013, seqnum: 1, acknum: 0
Recieved packet data is: _g(;Ocv,?Srz0DWk~4H_
Expected checksum: 246300
Packet corrupt
Sending bACK a NAK!
A: 254235.5098, Layer 5 to 4 Message = ipw \sim (x6=EiSZbipw \sim (x
A timed out. Sending packet with seqnum 1, and checksum 245013 again
B gettin' a packet with segnum 1, and checksum 245013
Packet Corrupt!
Recieved checksum: 245013, seqnum: 1, acknum: 0
Recieved packet data is: r(;Ocv,?Hgz0DWk~4S
Expected checksum: 247884
Packet Corrupt!
Recieved checksum: 245013, seqnum: 1, acknum: 0
Recieved packet data is: _r(;Ocv,?Hgz0DWk~4S_
Expected checksum: 247884
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 245013 again
A: 255085.7127, Layer 5 to 4 Message = df=Vo*C[txja243f\sim9Rk]
A timed out. Sending packet with segnum 1, and checksum 245013 again
B gettin' a packet with seqnum 1, and checksum 245013
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
      255461.0502, Layer 4 to 5 Message = r(;Ocv,?Sgz0DWk~4H
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 245013 again
B gettin' a packet with seqnum 1, and checksum 245013
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 245013
```

```
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: `'Lq8^%Jo6[#Hm4Y~Fk2
A sending packet with segnum 0 and checksum 230179 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 230179
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 255952.5477, Layer 4 to 5 Message = `'Lq8^%Jo6[#Hm4Y~Fk2
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 6129
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 6129
A: no valid ACK, got instead with corruption. Resending packet with
checksum 230179 and data \label{locality} $$ \checksum 230179 and data $$ \Lq8^{\sl} 06[$Hm4Y~Fk2.
A timed out. Sending packet with seqnum 0, and checksum 230179 again
B gettin' a packet with seqnum 111, and checksum 230179
Packet Corrupt!
Recieved checksum: 230179, seqnum: 111, acknum: 0
Recieved packet data is: `'Lq8^%J
Expected checksum: 221521
Packet Corrupt!
Recieved checksum: 230179, seqnum: 111, acknum: 0
Recieved packet data is: `'Lq8^%J
Expected checksum: 221521
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 230179
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: aapI!X1hAwP) `83H~W0g
A sending packet with segnum 1 and checksum 228623 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 228623
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 256545.1094, Layer 4 to 5 Message = aapI!X1hAwP)`83H~W0g
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: bLb~iS=(pZExwbL6~iS=
A sending packet with seqnum 0 and checksum 253126 from the queue
A sending packet to B
A: 256910.8548, Layer 5 to 4 Message = k7b.X\%0yFp< k3^*T\sim KuB
A timed out. Sending packet with seqnum 0, and checksum 253126 again
B gettin' a packet with segnum 0, and checksum 253018
Packet Corrupt!
Recieved checksum: 253018, seqnum: 0, acknum: 0
```

```
Recieved packet data is: bLb~iS=(pÆExwbL6~iS=
Expected checksum: 238326
Packet Corrupt!
Recieved checksum: 253018, seqnum: 0, acknum: 0
Recieved packet data is: bLb~iS=(pÆExwbL6~iS=
Expected checksum: 238326
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 253126 and data bLb~iS=(pZExwbL6~iS=. corrupted from
A to B, resending
A timed out. Sending packet with seqnum 0, and checksum 253126 again
B gettin' a packet with segnum 0, and checksum 253126
Packet Corrupt!
Recieved checksum: 253126, seqnum: 0, acknum: 120
Recieved packet data is: bLb~iS=(pZE
Expected checksum: 235606
Packet Corrupt!
Recieved checksum: 253126, segnum: 0, acknum: 120
Recieved packet data is: bLb~iS=(pZE
Expected checksum: 235606
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 253126 again
B gettin' a packet with seqnum 0, and checksum 253126
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 258101.2584, Layer 4 to 5 Message = bLb~iS=(pZExwbL6~iS=
Setting comp segnum from 0 to 1
A: 258226.3251, Layer 5 to 4 Message = 1J(dB)[9uS1m1)eC^{-}:v
A timed out. Sending packet with segnum 0, and checksum 253126 again
B gettin' a packet with segnum 0, and checksum 253126
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 253126
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d ZcRNJFB=952-)%~zvr
A sending packet with segnum 1 and checksum 241846 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 241846
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   258639.7143, Layer 4 to 5 Message = d ZcRNJFB=952-)%~zvr
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dq~.dIVdq~.;IVdq~.;I
A sending packet with segnum 0 and checksum 236340 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 236340
Expected packet compared and confirmed
```

B Sending bACK an ACK with checksum: 929

```
B sending message up to layer 5 and updating newest recieved data
B: 258672.5393, Layer 4 to 5 Message = dq~.dIVdq~.;IVdq~.;I
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 236340 again
B gettin' a packet with seqnum 0, and checksum 236340
Packet Corrupt!
Recieved checksum: 236340, seqnum: 0, acknum: 0
Recieved packet data is: dq~.dIV.q~.;IVdq~d;I
Expected checksum: 250380
Packet Corrupt!
Recieved checksum: 236340, seqnum: 0, acknum: 0
Recieved packet data is: dq~.dIV.q~.;IVdq~d;I
Expected checksum: 250380
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 236340
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: e&Ed%ec$Cb#Ba!A`~? }
A sending packet with seqnum 1 and checksum 246265 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 246265
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 259216.3902, Layer 4 to 5 Message = e\&Ed\&ec\&Cb\#Ba!A^{\circ}?}
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 246265 again
B gettin' a packet with segnum 1, and checksum 246265
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 246265
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: f8i;l>fBrEuHxK{N~Q$T
A sending packet with segnum 0 and checksum 248828 from the queue
A sending packet to B
   260200.6106, Layer 5 to 4 Message = m]L;+xhWG6&scmB1~n^M
A timed out. Sending packet with segnum 0, and checksum 248828 again
B gettin' a packet with seqnum 0, and checksum 248828
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   260237.7266, Layer 4 to 5 Message = f8i;1>fBrEuHxK{N~Q$T
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: gKxqU9{gD(jN2tX<~cG+
A sending packet with segnum 1 and checksum 231246 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 231246
Packet Corrupt!
Recieved checksum: 231246, seqnum: 1, acknum: 3932160
```

```
Recieved packet data is: gKxqU9{gD(jN2tX
Expected checksum: -7648434
Packet Corrupt!
Recieved checksum: 231246, segnum: 1, acknum: 3932160
Recieved packet data is: gKxqU9{gD(jN2tX
Expected checksum: -7648434
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 231246 again
B gettin' a packet with segnum 1, and checksum 231246
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 260749.6373, Layer 4 to 5 Message = gKxqU9{gD(jN2tX<~cG+
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: h^SI>4*}hi TJ?5+~tj`
A sending packet with segnum 0 and checksum 256764 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 256764
Packet Corrupt!
Recieved checksum: 256764, segnum: 0, acknum: 0
Recieved packet data is: h^S>I4*}hi TJ?5+~tj`
Expected checksum: 256863
Packet Corrupt!
Recieved checksum: 256764, seqnum: 0, acknum: 0
Recieved packet data is: h^S>I4*}hi TJ?5+~tj`
Expected checksum: 256863
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 256764 again
A timed out. Sending packet with seqnum 0, and checksum 256764 again
B gettin' a packet with segnum 0, and checksum 256764
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 261763.9243, Layer 4 to 5 Message = h^SI>4*}hi TJ?5+~tj`
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 161, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1901
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 161, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1901
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 256764 and data h^SI>4*\}hi TJ?5+~tj`.
A: 261988.5024, Layer 5 to 4 Message = nopgrstuvwxyz\{n\} \sim ! \# $
A timed out. Sending packet with segnum 0, and checksum 256764 again
B gettin' a packet with seqnum 0, and checksum 256764
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
```

```
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 256764
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ipw~(x6=EiSZbipw~(x6
A sending packet with seqnum 1 and checksum 261628 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 261628
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 262321.0567, Layer 4 to 5 Message = ipw~(x6=EiSZbipw~(x6
Setting comp seqnum from 1 to 0
A: 262729.1830, Layer 5 to 4 Message = 0$6I[n#5HZm!4GYo~3FX]
A timed out. Sending packet with seqnum 1, and checksum 261628 again
B gettin' a packet with seqnum 1, and checksum 261628
Packet Corrupt!
Recieved checksum: 261628, seqnum: 1, acknum: 0
Recieved packet data is: ~pw~(x6=EiSZbipwi(x6
Expected checksum: 255580
Packet Corrupt!
Recieved checksum: 261628, seqnum: 1, acknum: 0
Recieved packet data is: ~pw~(x6=EiSZbipwi(x6
Expected checksum: 255580
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1179
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 261628
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1179
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 261628 and data ipw~(x6=EiSZbipw~(x6.
B gettin' a packet with segnum 1879048193, and checksum 261628
Packet Corrupt!
Recieved checksum: 261628, seqnum: 1879048193, acknum: 0
Recieved packet data is: ipw~(x6=EiSZbi
Expected checksum: 1342413708
Packet Corrupt!
Recieved checksum: 261628, seqnum: 1879048193, acknum: 0
Recieved packet data is: ipw~(x6=EiSZbi
Expected checksum: 1342413708
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 261628
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: df=Vo*C[txja243f~9Rk
A sending packet with segnum 0 and checksum 247453 from the queue
A sending packet to B
```

```
A timed out. Sending packet with seqnum 0, and checksum 247453 again
B gettin' a packet with seqnum 0, and checksum 247453
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 263353.6786, Layer 4 to 5 Message = df=Vo*C[txja243f~9Rk
Setting comp seqnum from 0 to 1
A timed out. Sending packet with segnum 0, and checksum 247453 again
B gettin' a packet with segnum 0, and checksum 247453
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 12939
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 247453
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 12939
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 247453 and data df=Vo*C[txja243f~9Rk.
B gettin' a packet with seqnum 0, and checksum 247453
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A: 263884.5893, Layer 5 to 4 Message = p6Z\sim EixSw=b (Lp6ZpEix
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, segnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: -26601
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 247453
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: -26601
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 247453 and data df=Vo*C[txja243f~9Rk.
B gettin' a packet with seqnum 0, and checksum 247453
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 247453
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: k7b.X%OyFp<k3^*T~KuB
A sending packet with seqnum 1 and checksum 243904 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 243904
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
```

```
B sending message up to layer 5 and updating newest recieved data
B: 263948.3423, Layer 4 to 5 Message = k7b.X\%0yFp< k3^*T\sim KuB
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: lJ(dB)[9uS1ml)eC~]:v
A sending packet with segnum 0 and checksum 256795 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 256795
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 263959.0933, Layer 4 to 5 Message = 1J(dB)[9uS1ml)eC^{-}:v
Setting comp seqnum from 0 to 1
A: 264307.1325, Layer 5 to 4 Message = dI~V.d;qI~V.2;qI~q.d
A timed out. Sending packet with seqnum 0, and checksum 256795 again
B gettin' a packet with seqnum 0, and checksum 256795
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 65
Recieved packet data is: N
Expected checksum: 549
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 256795
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 65
Recieved packet data is: N
Expected checksum: 549
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 256795 and data lJ(dB)[9uS1ml)eC~]:v.
B gettin' a packet with seqnum 0, and checksum 256795
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 256795
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: m]L;+xhWG6&scmB1~n^M
A sending packet with seqnum 1 and checksum 252680 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 252680
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 264501.1712, Layer 4 to 5 Message = m]L;+xhWG6&scmB1~n^M
Setting comp_seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 252680 again
B gettin' a packet with seqnum 1, and checksum 252680
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 0
```

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Recieved packet data is: NAK
Expected checksum: 1083
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 252680
Packet Corrupt!
Recieved checksum: 168, segnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1083
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 252680 and data m]L;+xhWG6&scmB1~n^M.
B gettin' a packet with seqnum 1, and checksum 252680
Packet Corrupt!
Recieved checksum: 252680, seqnum: 1, acknum: 0
Recieved packet data is: m]&;+xhWG6LscmB1~n^M
Expected checksum: 256936
Packet Corrupt!
Recieved checksum: 252680, segnum: 1, acknum: 0
Recieved packet data is: m]&;+xhWG6LscmB1~n^M
Expected checksum: 256936
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 252680
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: nopqrstuvwxyz{n}~!#$
A sending packet with segnum 0 and checksum 252474 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 252474
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 265051.3706, Layer 4 to 5 Message = nopqrstuvwxyz{n}~!#$
Setting comp_seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: o$6I[n#5HZm!4GYo~3FX
A sending packet with segnum 1 and checksum 230503 from the queue
A sending packet to B
A: 265093.5222, Layer 5 to 4 Message = r[E.u H1xbK4{eN7~hr:
A timed out. Sending packet with seqnum 1, and checksum 230503 again
B gettin' a packet with seqnum 1, and checksum 230503
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   265579.8120, Layer 4 to 5 Message = 0\%I[n\#5HZm!4GYo\sim3FX]
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: p6Z~EixSw=b(Lp6ZpEix
A sending packet with segnum 0 and checksum 263746 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 263749
Packet Corrupt!
```

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Recieved checksum: 263749, seqnum: 0, acknum: 0
Recieved packet data is: p6Z~EixSw=b(Lp6ZpBix
Expected checksum: 262774
Packet Corrupt!
Recieved checksum: 263749, seqnum: 0, acknum: 0
Recieved packet data is: p6Z~EixSw=b(Lp6ZpBix
Expected checksum: 262774
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 263746 and data p6Z~EixSw=b(Lp6ZpEix. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 263746
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 265626.8440, Layer 4 to 5 Message = p6Z~EixSw=b(Lp6ZpEix
Setting comp_seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 263746 again
A timed out. Sending packet with seqnum 0, and checksum 263746 again
B gettin' a packet with segnum 0, and checksum 263746
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 263746
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dI~V.d;qI~V.2;qI~q.d
A sending packet with segnum 1 and checksum 247003 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 247003
Packet Corrupt!
Recieved checksum: 247003, seqnum: 1, acknum: 0
Recieved packet data is: bI~I.d;qI~V.3;qV~q.d
Expected checksum: 250290
Packet Corrupt!
Recieved checksum: 247003, seqnum: 1, acknum: 0
Recieved packet data is: bI~I.d;qI~V.3;qV~q.d
Expected checksum: 250290
Packet corrupt
Sending bACK a NAK!
A: 267001.6304, Layer 5 to 4 Message = sfid YTOJE?:503\&~yts
A timed out. Sending packet with seqnum 1, and checksum 247003 again
A timed out. Sending packet with seqnum 1, and checksum 247003 again
B gettin' a packet with seqnum 1, and checksum 247003
Packet Corrupt!
Recieved checksum: 247003, seqnum: 1, acknum: 0
Recieved packet data is: bq~V.d;qI~V.3;II~q.d
Expected checksum: 238330
Packet Corrupt!
Recieved checksum: 247003, seqnum: 1, acknum: 0
Recieved packet data is: bq~V.d;qI~V.3;II~q.d
Expected checksum: 238330
Packet corrupt
Sending bACK a NAK!
    268045.0348, Layer 5 to 4 Message = t # x; HTamy(4AMYfr~-9F
A timed out. Sending packet with segnum 1, and checksum 247003 again
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B gettin' a packet with seqnum 18689, and checksum 247003
Packet Corrupt!
Recieved checksum: 247003, segnum: 18689, acknum: 0
Recieved packet data is: b
Expected checksum: 302942
Packet Corrupt!
Recieved checksum: 247003, seqnum: 18689, acknum: 0
Recieved packet data is: b
Expected checksum: 302942
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: -1426062592, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 939
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: -1426062592, segnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 939
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 247003 and data dI~V.d;qI~V.2;qI~q.d.
B gettin' a packet with segnum 1, and checksum 247003
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 268187.9470, Layer 4 to 5 Message = dI~V.d;qI~V.2;qI~q.d
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 420, segnum: 3, acknum: 1
Recieved packet data is: ACK
Expected checksum: 938
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 3. last transmitted seqnum: 1
Last sent packet Checksum: 247003
Packet Corrupt!
Recieved checksum: 420, seqnum: 3, acknum: 1
Recieved packet data is: ACK
Expected checksum: 938
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 247003 and data dI~V.d;qI~V.2;qI~q.d.
A timed out. Sending packet with seqnum 1, and checksum 247003 again
A timed out. Sending packet with seqnum 1, and checksum 247003 again
A: 269501.2836, Layer 5 to 4 Message = uuSq10m-Ki)Ge%Ca~>]z
A: 269509.1651,
                 Layer 5 to 4 Message = vHvIxJyKzL{M|N}O~P!Q
A timed out. Sending packet with segnum 1, and checksum 247003 again
B gettin' a packet with segnum 46, and checksum 247003
Packet Corrupt!
Recieved checksum: 247003, seqnum: 46, acknum: 0
Recieved packet data is: bI~V.d;qI~V 3;qI~q.d
Expected checksum: 240825
Packet Corrupt!
Recieved checksum: 247003, segnum: 46, acknum: 0
Recieved packet data is: bI~V.d;qI~V 3;qI~q.d
Expected checksum: 240825
Packet corrupt
Sending bACK a NAK!
```

```
A: 269974.4406, Layer 5 to 4 Message = wZ=wbE(iLxpS6wZ=\sim bE(
A timed out. Sending packet with seqnum 1, and checksum 247003 again
A timed out. Sending packet with segnum 1, and checksum 247003 again
B gettin' a packet with seqnum 1, and checksum 247003
Packet Corrupt!
Recieved checksum: 247003, seqnum: 1, acknum: 0
Recieved packet data is: b~~V.d;qIIV.3;qI~q.d
Expected checksum: 242082
Packet Corrupt!
Recieved checksum: 247003, segnum: 1, acknum: 0
Recieved packet data is: b~~V.d;qIIV.3;qI~q.d
Expected checksum: 242082
Packet corrupt
Sending bACK a NAK!
A: 270725.7995, Layer 5 to 4 Message = dmbVx?4) {peY2C7,~sh]
A timed out. Sending packet with segnum 1, and checksum 247003 again
B gettin' a packet with seqnum 1, and checksum 247003
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 247003
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: r[E.u HlxbK4{eN7~hr:
A sending packet with segnum 0 and checksum 257527 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 257527 again
B gettin' a packet with seqnum 1962934272, and checksum 257527
Packet Corrupt!
Recieved checksum: 257527, segnum: 1962934272, acknum: 0
Recieved packet data is: r[E.
Expected checksum: 1594090122
Packet Corrupt!
Recieved checksum: 257527, seqnum: 1962934272, acknum: 0
Recieved packet data is: r[E.
Expected checksum: 1594090122
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 257527 and data r[E.u H1xbK4{eN7~hr:. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 257527
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   271739.1328, Layer 4 to 5 Message = r[E.u H1xbK4{eN7~hr:
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: sfid YTOJE?:503&~yts
A sending packet with seqnum 1 and checksum 249676 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 249676
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
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B: 271750.1040, Layer 4 to 5 Message = sfid YTOJE?:503&~yts
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: t#x;HTamy(4AMYfr~-9F
A sending packet with seqnum 0 and checksum 230371 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 230371
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 271769.0240, Layer 4 to 5 Message = t#x; HTamy (4AMYfr~-9F
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: uuSq10m-Ki)Ge%Ca~>]z
A sending packet with segnum 1 and checksum 250219 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 250219 again
B gettin' a packet with segnum 1, and checksum 250219
Packet Corrupt!
Recieved checksum: 250219, segnum: 1, acknum: 28928
Recieved packet data is: uuS
Expected checksum: 190555
Packet Corrupt!
Recieved checksum: 250219, segnum: 1, acknum: 28928
Recieved packet data is: uuS
Expected checksum: 190555
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 250219 and data uuSq10m-Ki)Ge%Ca~>]z. corrupted from
A to B, resending
A: 272438.1017, Layer 5 to 4 Message = y!(.4yAGMSY`flrx~'-3
A timed out. Sending packet with seqnum 1, and checksum 250219 again
B gettin' a packet with seqnum 1, and checksum 250219
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 272813.7188, Layer 4 to 5 Message = uuSq10m-Ki)Ge%Ca~>]z
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: vHvIxJyKzL{M|N}O~P!Q
A sending packet with segnum 0 and checksum 253645 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 205261
Packet Corrupt!
Recieved checksum: 205261, segnum: 0, acknum: 0
Recieved packet data is: vHvIxJyKzL{M|N}O~PPQ
Expected checksum: 229458
Packet Corrupt!
Recieved checksum: 205261, seqnum: 0, acknum: 0
Recieved packet data is: vHvIxJyKzL{M|N}O~PPQ
Expected checksum: 229458
Packet corrupt
```

```
Sending bACK a NAK!
A: 272862.9098, Layer 5 to 4 Message = z4Ld{5ze|6Nf}70g~8Ph
   272973.6840, Layer 5 to 4 Message = {Gp;e0Y{NwCl7a,U~Js>
A timed out. Sending packet with seqnum 0, and checksum 253645 again
B gettin' a packet with seqnum 0, and checksum 253645
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 273323.0910, Layer 4 to 5 Message = vHvIxJyKzL{M|N}0~P!Q
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: wZ=wbE(iLxpS6wZ=~bE(
A sending packet with seqnum 1 and checksum 237523 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 237523
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   273347.8499, Layer 4 to 5 Message = wZ=wbE(iLxpS6wZ=\sim bE(
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: AC
Expected checksum: 30257
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: AC
Expected checksum: 30257
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 237523 and data wZ=wbE(iLxpS6wZ=~bE(.
B gettin' a packet with seqnum 1, and checksum 237523
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 237523
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dmbVx?4) {peY2C7,~sh]
A sending packet with seqnum 0 and checksum 252996 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 252996
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   273366.2049, Layer 4 to 5 Message = dmbVx?4) {peY2C7,~sh]
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: y!(.4yAGMSY`flrx~'-3
A sending packet with segnum 1 and checksum 234261 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 234261
Packet Corrupt!
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```
Recieved checksum: 234261, seqnum: 1, acknum: 0
Recieved packet data is: y!(.4yAGMSY`fl3x~'-r
Expected checksum: 245286
Packet Corrupt!
Recieved checksum: 234261, seqnum: 1, acknum: 0
Recieved packet data is: y!(.4yAGMSY`fl3x~'-r
Expected checksum: 245286
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 19201, acknum: 0
Recieved packet data is: NA
Expected checksum: 57864
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 19201. last transmitted seqnum: 1
Last sent packet Checksum: 2\overline{3}4261
Packet Corrupt!
Recieved checksum: 939, seqnum: 19201, acknum: 0
Recieved packet data is: NA
Expected checksum: 57864
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 234261 and data y! (.4yAGMSY`flrx~'-3.
A timed out. Sending packet with segnum 1, and checksum 234261 again
B gettin' a packet with seqnum 1, and checksum 234261
Packet Corrupt!
Recieved checksum: 234261, segnum: 1, acknum: 114
Recieved packet data is: y!(.4yAGMSY`fl
Expected checksum: 208383
Packet Corrupt!
Recieved checksum: 234261, segnum: 1, acknum: 114
Recieved packet data is: y!(.4yAGMSY`fl
Expected checksum: 208383
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 234261 again
B gettin' a packet with seqnum 1, and checksum 234261
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 274414.5875, Layer 4 to 5 Message = y!(.4yAGMSY`flrx~'-3
Setting comp segnum from 1 to 0
A: 274754.1684, Layer 5 to 4 Message = |f6qN+fC|Z7rO,3D^{-}[8s]
A timed out. Sending packet with seqnum 1, and checksum 234261 again
A timed out. Sending packet with seqnum 1, and checksum 234261 again
A: 275830.5393, Layer 5 to 4 Message = }1ZI7&raO},xgUD2~m[J
A timed out. Sending packet with seqnum 1, and checksum 234261 again
B gettin' a packet with seqnum 1, and checksum 234261
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 234261 again
B gettin' a packet with seqnum 1, and checksum 234261
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A: 276554.3800, Layer 5 to 4 Message = !3EVhy -> Pbs'2J[m \sim 2DU]
A timed out. Sending packet with segnum 1, and checksum 234261 again
A: 277070.2674, Layer 5 to 4 Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
A: 277318.1436, Layer 5 to 4 Message = $X$d:oFzQ(]3h>sJ~U,a
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A: 277372.3258, Layer 5 to 4 Message = %kS%$jR:#iQ9!hP8~gO7
A timed out. Sending packet with seqnum 1, and checksum 234261 again
B gettin' a packet with seqnum 1, and checksum 234261
Packet Corrupt!
Recieved checksum: 234261, seqnum: 1, acknum: 0
Recieved packet data is: y!(.YyAGMS4`flrx~'-3
Expected checksum: 230709
Packet Corrupt!
Recieved checksum: 234261, seqnum: 1, acknum: 0
Recieved packet data is: y!(.YyAGMS4`flrx~'-3
Expected checksum: 230709
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 234261
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: z4Ld{5ze|6Nf}70g~8Ph
A sending packet with segnum 0 and checksum 260618 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 260618
Packet Corrupt!
Recieved checksum: 260618, segnum: 0, acknum: 0
Recieved packet data is: z4Ld5{ze|6Nf}70g~8Ph
Expected checksum: 261388
Packet Corrupt!
Recieved checksum: 260618, seqnum: 0, acknum: 0
Recieved packet data is: z4Ld5{ze|6Nf}70g~8Ph
Expected checksum: 261388
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 846, seqnum: 0, acknum: 0
Recieved packet data is: "AK
Expected checksum: 770
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 846, seqnum: 0, acknum: 0
Recieved packet data is: "AK
Expected checksum: 770
A: no valid ACK, got "AK instead with corruption. Resending packet with
checksum 260618 and data z4Ld{5ze|6Nf}70g~8Ph.
B gettin' a packet with seqnum 0, and checksum 260618
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   277493.9153, Layer 4 to 5 Message = z4Ld{5ze|6Nf}70g~8Ph
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, segnum: 1, acknum: 0
Recieved packet data is: ACK
Expected checksum: 934
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 260618
```

```
Packet Corrupt!
Recieved checksum: 929, seqnum: 1, acknum: 0
Recieved packet data is: ACK
Expected checksum: 934
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 260618 and data z4Ld{5ze|6Nf}70g~8Ph.
B gettin' a packet with seqnum 0, and checksum 260618
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
    A timed out. Sending packet with segnum 0, and checksum 260618 again
B gettin' a packet with seqnum 0, and checksum 260618
Packet Corrupt!
Recieved checksum: 260618, seqnum: 0, acknum: 0
Recieved packet data is: z40d{5ze|6Nf}7Lg~8Ph
Expected checksum: 259970
Packet Corrupt!
Recieved checksum: 260618, seqnum: 0, acknum: 0
Recieved packet data is: z4Od{5ze|6Nf}7Lq~8Ph
Expected checksum: 259970
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 260618
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: {Gp;e0Y{NwCl7a,U~Js>
A sending packet with seqnum 1 and checksum 247320 from the queue
A sending packet to B
A timed out. Sending packet with segnum 1, and checksum 247320 again
B gettin' a packet with segnum 1, and checksum 247320
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 278571.7903, Layer 4 to 5 Message = {Gp;e0Y{NwCl7a,U~Js>
Setting comp_seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 247320 again
B gettin' a packet with seqnum 1, and checksum 247320
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 247320
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: |f6qN+fC|Z7rO,3D~[8s
A sending packet with segnum 0 and checksum 240620 from the queue
A sending packet to B
   279089.3615, Layer 5 to 4 Message = '2=IT'kv$x:FQ]hs~,7C
A timed out. Sending packet with segnum 0, and checksum 240620 again
A: 279654.8556, Layer 5 to 4 Message = (fb\sim=Z(6SpxLi(3b\sim=Zw))
A timed out. Sending packet with seqnum 0, and checksum 240620 again
B gettin' a packet with segnum 0, and checksum 240620
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 280086.8813, Layer 4 to 5 Message = |f6qN+fC|Z7rO,3D^{-}[8s]
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Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 240620 again
B gettin' a packet with seqnum 0, and checksum 240620
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 240620
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: }lZI7&raO},xgUD2~m[J
A sending packet with seqnum 1 and checksum 254849 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 254849
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   280602.8395, Layer 4 to 5 Message = }1ZI7&raO},xgUD2~m[J
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A sending packet with seqnum 0 and checksum 361543 from the queue
A sending packet to B
A: 280806.2057, Layer 5 to 4 Message = dW(V'U\&) %S$R2Q!P~O}N
A timed out. Sending packet with seqnum 0, and checksum 361543 again
A timed out. Sending packet with seqnum 0, and checksum 361543 again
A timed out. Sending packet with seqnum 0, and checksum 361543 again
A: 282192.4194, Layer 5 to 4 Message = *jL.nP2r*6vX:z]>~aC%
A timed out. Sending packet with segnum 0, and checksum 361543 again
A timed out. Sending packet with segnum 0, and checksum 361543 again
B gettin' a packet with segnum 0, and checksum 361543
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: !3EVhy->Pbs'2J[m~2DU
A sending packet with segnum 1 and checksum 233595 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 233595
Packet Corrupt!
Recieved checksum: 233595, seqnum: 1, acknum: 0
Recieved packet data is: !3EVJy->Pbs'2h[m~2DU
Expected checksum: 238725
Packet Corrupt!
Recieved checksum: 233595, seqnum: 1, acknum: 0
Recieved packet data is: !3EVJy->Pbs'2h[m~2DU
Expected checksum: 238725
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 233595 and data !3EVhy->Pbs'2J[m~2DU. corrupted from
A to B, resending
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B gettin' a packet with seqnum 1, and checksum 233595
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
\ensuremath{\mathtt{B}} sending message up to layer 5 and updating newest recieved data
B: 283176.5608, Layer 4 to 5 Message = !3EVhy->Pbs'2J[m~2DU
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ##i.Qt9]!Eh-Ps8[~Dq,
A sending packet with segnum 0 and checksum 230547 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 230547
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   283200.7722, Layer 4 to 5 Message = ##i.Qt9]!Eh-Ps8[~Dg,
Setting comp seqnum from 0 to 1
A timed out. Sending packet with segnum 0, and checksum 230547 again
B gettin' a packet with seqnum 0, and checksum 230547
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, segnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: -5946
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 230547
Packet Corrupt!
Recieved checksum: 768, segnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: -5946
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 230547 and data ##i.Qt9]!Eh-Ps8[~Dg,.
B gettin' a packet with seqnum 0, and checksum 1342407827
Packet Corrupt!
Recieved checksum: 1342407827, seqnum: 0, acknum: 0
Recieved packet data is: ##i.Qt9]!Eh-
Expected checksum: 217027
Packet Corrupt!
Recieved checksum: 1342407827, seqnum: 0, acknum: 0
Recieved packet data is: ##i.Qt9]!Eh-
Expected checksum: 217027
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 230547
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: $X$d:oFzQ(]3h>sJ~U,a
A sending packet with segnum 1 and checksum 241265 from the queue
A sending packet to B
A: 283799.1393, Layer 5 to 4 Message = +|pdWK>2&+k RF9-~rfY
A timed out. Sending packet with seqnum 1, and checksum 241265 again
B gettin' a packet with segnum 1, and checksum 241265
```

```
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 284257.5751, Layer 4 to 5 Message = $X$d:oFzQ(]3h>sJ~U,a
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: %kS%$jR:#iQ9!hP8~gO7
A sending packet with segnum 0 and checksum 224119 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 224119 again
A: 285011.9524, Layer 5 to 4 Message = ,16; AFKPUZ, ejoty~&+0
A timed out. Sending packet with seqnum 0, and checksum 224119 again
B gettin' a packet with seqnum 0, and checksum 224119
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   285279.2164, Layer 4 to 5 Message = %kS%$jR:#iQ9!hP8~g07
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A sending packet with seqnum 1 and checksum 249386 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 249386
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: '2=IT'kv$x:FQ]hs~,7C
A sending packet with seqnum 0 and checksum 232274 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 232274
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 285357.4483, Layer 4 to 5 Message = '2=IT'kv$x:FQ]hs\sim,7C
Setting comp_seqnum from 0 to 1
A timed out. Sending packet with segnum 0, and checksum 232274 again
B gettin' a packet with seqnum 0, and checksum 232274
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 232274
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: (fb~=Z(6SpxLi(3b~=Zw
A sending packet with seqnum 1 and checksum 255256 from the queue
A sending packet to B
B gettin' a packet with segnum 10241, and checksum 255256
Packet Corrupt!
Recieved checksum: 255256, segnum: 10241, acknum: 0
```

```
Recieved packet data is:
Expected checksum: 285936
Packet Corrupt!
Recieved checksum: 255256, segnum: 10241, acknum: 0
Recieved packet data is:
Expected checksum: 285936
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: N
Expected checksum: 11664
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 0
Recieved packet data is: N
Expected checksum: 11664
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 255256 and data (fb~=Z(6SpxLi(3b~=Zw.
B gettin' a packet with seqnum 1, and checksum 255256
Packet Corrupt!
Recieved checksum: 255256, seqnum: 1, acknum: 0
Recieved packet data is: (fb~=((6SpxLiZ3b~=Zw
Expected checksum: 263256
Packet Corrupt!
Recieved checksum: 255256, seqnum: 1, acknum: 0
Recieved packet data is: (fb~=((6SpxLiZ3b~=Zw
Expected checksum: 263256
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 255256 and data (fb~=Z(6SpxLi(3b~=Zw. corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 255256
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 285939.6932, Layer 4 to 5 Message = (fb\sim=Z(6SpxLi(3b\sim=Zw))
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 164, segnum: 50331649, acknum: 1
Recieved packet data is: ACK
Expected checksum: 150995876
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 50331649. last transmitted seqnum: 1
Last sent packet Checksum: 255256
Packet Corrupt!
Recieved checksum: 164, seqnum: 50331649, acknum: 1
Recieved packet data is: ACK
Expected checksum: 150995876
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 255256 and data (fb~=Z(6SpxLi(3b~=Zw.
A timed out. Sending packet with seqnum 1, and checksum 255256 again
A timed out. Sending packet with segnum 1, and checksum 255256 again
B gettin' a packet with seqnum 1, and checksum 255256
```

incorrect seqnum

```
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A: 286983.6919, Layer 5 to 4 Message = -DZq*AWn'=T-$:Qh~7Ne
A: 287378.7545, Layer 5 to 4 Message = .V~Iq;d.V~Iq.d.V~Iq;
A timed out. Sending packet with seqnum 1, and checksum 255256 again
A timed out. Sending packet with seqnum 1, and checksum 255256 again
B gettin' a packet with seqnum 1, and checksum 255256
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 5111808
Recieved packet data is:
Expected checksum: -10222758
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 255256
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 5111808
Recieved packet data is:
Expected checksum: -10222758
A: no valid ACK, got instead with corruption. Resending packet with
checksum 255256 and data (fb~=Z(6SpxLi(3b~=Zw.
B gettin' a packet with seqnum 98, and checksum 255256
Packet Corrupt!
Recieved checksum: 255256, segnum: 98, acknum: 0
Recieved packet data is: (fb~=Z(6SpxLi(3 ~=Zw
Expected checksum: 230715
Packet Corrupt!
Recieved checksum: 255256, seqnum: 98, acknum: 0
Recieved packet data is: (fb~=Z(6SpxLi(3 ~=Zw
Expected checksum: 230715
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 255256
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dW(V'U&)%S$R2Q!P~O}N
A sending packet with segnum 0 and checksum 228655 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 228655
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   287999.6270, Layer 4 to 5 Message = dW(V'U&)%S$R2Q!P~O}N
B:
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, segnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 17504
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 17504
```

```
A: no valid ACK, got instead with corruption. Resending packet with
checksum 228655 and data dW(V'U\&)%SR2Q!P~O\}N.
B gettin' a packet with seqnum 0, and checksum 228655
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, segnum: -1426063359, acknum: 0
Recieved packet data is: NAK
Expected checksum: 16778155
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: -1426063359. last transmitted seqnum: 0
Last sent packet Checksum: 228655
Packet Corrupt!
Recieved checksum: 768, seqnum: -1426063359, acknum: 0
Recieved packet data is: NAK
Expected checksum: 16778155
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 228655 and data dW(V'U&)%S$R2Q!P~O}N.
B gettin' a packet with seqnum 0, and checksum 228655
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 228655 again
B gettin' a packet with seqnum 0, and checksum 228655
Packet Corrupt!
Recieved checksum: 228655, seqnum: 0, acknum: 78
Recieved packet data is: bW(V'U&)%S$R3Q!P~O}
Expected checksum: 197466
Packet Corrupt!
Recieved checksum: 228655, segnum: 0, acknum: 78
Recieved packet data is: bW(V'U&)%S$R3Q!P~O}
Expected checksum: 197466
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 16777216, acknum: 0
Recieved packet data is: NAK
Expected checksum: 50332584
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 16777216. last transmitted segnum: 0
Last sent packet Checksum: 228655
Packet Corrupt!
Recieved checksum: 939, seqnum: 16777216, acknum: 0
Recieved packet data is: NAK
Expected checksum: 50332584
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 228655 and data dW(V'U\&) %S$R2Q!P~O}N.
B gettin' a packet with seqnum 0, and checksum 228655
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 228655 again
B gettin' a packet with seqnum 0, and checksum 228655
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
A: 289195.7394, Layer 5 to 4 Message = xiE~Z6pL(b=wSxiE~Z6p
A timed out. Sending packet with seqnum 0, and checksum 228655 again
B gettin' a packet with segnum 0, and checksum 228655
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incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
A: 289829.9303, Layer 5 to 4 Message = d{iVD1|jWE2}2X03\sim1YG
A timed out. Sending packet with seqnum 0, and checksum 228655 again
B gettin' a packet with seqnum 0, and checksum 228655
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 0
Recieved packet data is: N
Expected checksum: 3864
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 228655
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: N
Expected checksum: 3864
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 228655 and data dW(V'U&)%S$R2Q!P~O}N.
B gettin' a packet with seqnum 0, and checksum 228655
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 228655
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: *jL.nP2r*6vX:z]>~aC%
A sending packet with segnum 1 and checksum 230280 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 230280
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 290122.5347, Layer 4 to 5 Message = *jL.nP2r*6vX:z]>~aC%
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: +|pdWK>2&+k RF9-~rfY
A sending packet with seqnum 0 and checksum 245883 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 245883
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   290172.7635, Layer 4 to 5 Message = +|pdWK>2&+k RF9-~rfY
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ,16;AFKPUZ,ejoty~&+0
A sending packet with segnum 1 and checksum 230484 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 230484
Packet Corrupt!
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Recieved checksum: 230484, seqnum: 1, acknum: 0
Recieved packet data is: ,16;AjKPUZ,eFoty~&+0
Expected checksum: 225696
Packet Corrupt!
Recieved checksum: 230484, seqnum: 1, acknum: 0
Recieved packet data is: ,16;AjKPUZ,eFoty~&+0
Expected checksum: 225696
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 230484 again
A timed out. Sending packet with seqnum 1, and checksum 230484 again
A: 291207.2977, Layer 5 to 4 Message = 1fx.-,+*) ('&%$31~}|{
A timed out. Sending packet with seqnum 1, and checksum 230484 again
B gettin' a packet with seqnum 1, and checksum 230484
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 291687.0353, Layer 4 to 5 Message = ,16;AFKPUZ,ejoty~&+0
Setting comp_seqnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 230484 again
B gettin' a packet with seqnum 1, and checksum 230484
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 230484
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: -DZq*AWn'=T-$:Qh~7Ne
A sending packet with segnum 0 and checksum 228547 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 228547
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 292215.9111, Layer 4 to 5 Message = -DZq*AWn'=T-$:Qh~7Ne
Setting comp_seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: .V~Iq;d.V~Iq.d.V~Iq;
A sending packet with segnum 1 and checksum 244281 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 3062329
Packet Corrupt!
Recieved checksum: 3062329, seqnum: 1, acknum: 0
Recieved packet data is: V~Iq;d.V~Iq.d.V~Iq;
Expected checksum: 244238
Packet Corrupt!
Recieved checksum: 3062329, seqnum: 1, acknum: 0
Recieved packet data is: V~Iq;d.V~Iq.d.V~Iq;
Expected checksum: 244238
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 244281 and data .V~Iq;d.V~Iq.d.V~Iq;. corrupted from
A to B, resending
A timed out. Sending packet with seqnum 1, and checksum 244281 again
```

```
B gettin' a packet with seqnum 1, and checksum 244281
Packet Corrupt!
Recieved checksum: 244281, seqnum: 1, acknum: 0
Recieved packet data is: .V~Iq;d.VI~q.d.V~Iq;
Expected checksum: 245394
Packet Corrupt!
Recieved checksum: 244281, seqnum: 1, acknum: 0
Recieved packet data is: .V~Iq;d.VI~q.d.V~Iq;
Expected checksum: 245394
Packet corrupt
Sending bACK a NAK!
A: 293134.2176, Layer 5 to 4 Message = 2CSdt'7HXiy, <M^n21BR
A timed out. Sending packet with seqnum 1, and checksum 244281 again
B gettin' a packet with seqnum 1, and checksum 244281
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 293243.3350, Layer 4 to 5 Message = .V~Iq;d.V~Iq.d.V~Iq;
Setting comp_seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 244281 again
A timed out. Sending packet with seqnum 1, and checksum 244281 again
B gettin' a packet with segnum 1, and checksum 244281
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 244281
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: xiE~Z6pL(b=wSxiE~Z6p
A sending packet with segnum 0 and checksum 263907 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 263907
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 294281.7869, Layer 4 to 5 Message = xiE~Z6pL(b=wSxiE~Z6p
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: d{iVD1|jWE2}2X03~1YG
A sending packet with segnum 1 and checksum 238649 from the queue
A sending packet to B
B gettin' a packet with seqnum 22017, and checksum 238649
Packet Corrupt!
Recieved checksum: 238649, seqnum: 22017, acknum: 0
Recieved packet data is: b{i
Expected checksum: 303488
Packet Corrupt!
Recieved checksum: 238649, segnum: 22017, acknum: 0
Recieved packet data is: b{i
Expected checksum: 303488
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
```

```
Expected checksum: 961
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match! packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 238649
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 961
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 238649 and data d{iVD1|jWE2}2X03~1YG.
B gettin' a packet with seqnum 1, and checksum 238649
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   294349.1683, Layer 4 to 5 Message = d\{iVD1|jWE2\}2X03\sim1YG
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: 1fx.-,+*) ('&%$31~}|{
A sending packet with segnum 0 and checksum 235418 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 235418
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 294369.8282, Layer 4 to 5 Message = 1fx.-,+*) ('&\$\$31~}|{
Setting comp_seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: 2CSdt'7HXiy, <M^n21BR
A sending packet with segnum 1 and checksum 214297 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 214297
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 294387.3923, Layer 4 to 5 Message = 2CSdt'7HXiy, <M^n21BR
Setting comp segnum from 1 to 0
    294575.2804, Layer 5 to 4 Message = 3Uw; ^!Df*Ln2Tv:]~3e)
A timed out. Sending packet with seqnum 1, and checksum 214297 again
B gettin' a packet with segnum 1, and checksum 214297
Packet Corrupt!
Recieved checksum: 214297, seqnum: 1, acknum: 0
Recieved packet data is: 2CSdt'7HXiy,BM^n21<R
Expected checksum: 213145
Packet Corrupt!
Recieved checksum: 214297, seqnum: 1, acknum: 0
Recieved packet data is: 2CSdt'7HXiy,BM^n21<R
Expected checksum: 213145
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 214297
Not corrupt, but bad sequence number, sending next boi
```

```
Data being dequeued: 3Uw;^!Df*Ln2Tv:]~3e)
A sending packet with seqnum 0 and checksum 227220 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 1560508308
Packet Corrupt!
Recieved checksum: 1560508308, seqnum: 0, acknum: 0
Recieved packet data is: 3Uw;^!Df*Ln2Tv:
Expected checksum: 203412
Packet Corrupt!
Recieved checksum: 1560508308, segnum: 0, acknum: 0
Recieved packet data is: 3Uw;^!Df*Ln2Tv:
Expected checksum: 203412
Packet corrupt
Sending bACK a NAK!
   295211.6148, Layer 5 to 4 Message = 4h=qGzP&Yxc8lBuK~T4^
A timed out. Sending packet with segnum 0, and checksum 227220 again
B gettin' a packet with seqnum 0, and checksum 227220
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   295427.0906, Layer 4 to 5 Message = 3Uw;^!Df*Ln2Tv:]~3e)
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: 4h=qGzP&Yxc8lBuK~T4^
A sending packet with segnum 1 and checksum 251237 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 251237 again
B gettin' a packet with seqnum 1, and checksum 251237
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 295940.2210, Layer 4 to 5 Message = 4h=qGzP&Yxc8lBuK~T4^
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 296372.7743, Layer 5 to 4 Message = 5zbI0u]D+pW>&kR9~fM5
A sending packet with seqnum 0 and checksum 229868
A sending packet to B
B gettin' a packet with segnum 0, and checksum 229868
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 296393.8639, Layer 4 to 5 Message = 5zbI0u]D+pW>&kR9~fM5
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 296492.4370, Layer 5 to 4 Message = 6x(~wpibZSLE=6x(~wpi
A sending packet with segnum 1 and checksum 271517
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 271517 again
B gettin' a packet with seqnum 1, and checksum 271517
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 297007.1553, Layer 4 to 5 Message = 6x(~wpibZSLE=6x(~wpi
Setting comp segnum from 1 to 0
```

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Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 297862.6016, Layer 5 to 4 Message = d7LVaku!,6AK2`jt~+5?
A sending packet with seqnum 0 and checksum 219545
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 219545 again
A timed out. Sending packet with segnum 0, and checksum 219545 again
B gettin' a packet with segnum 0, and checksum 219545
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 298869.7103, Layer 4 to 5 Message = d7LVaku!,6AK2`jt~+5?
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 65
Recieved packet data is: CK
Expected checksum: 737
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 65
Recieved packet data is: CK
Expected checksum: 737
A: no valid ACK, got CK instead with corruption. Resending packet with
checksum 219545 and data d7LVaku!, 6AK2`jt~+5?.
B gettin' a packet with segnum 0, and checksum 219545
Packet Corrupt!
Recieved checksum: 219545, seqnum: 0, acknum: 0
Recieved packet data is: b7LVaku+,6AK3`jt~!5?
Expected checksum: 217112
Packet Corrupt!
Recieved checksum: 219545, segnum: 0, acknum: 0
Recieved packet data is: b7LVaku+,6AK3`jt~!5?
Expected checksum: 217112
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 219545
Not corrupt, but bad sequence number, sending next boi
A: 299207.6695, Layer 5 to 4 Message = 8T8.Jf?[w5Qm+Gc~<Xt
A sending packet with seqnum 1 and checksum 252414
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 252414
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   299231.2576, Layer 4 to 5 Message = 8T8.Jf$?[w5Qm+Gc~<Xt
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 299513.2303, Layer 5 to 4 Message = 99693a0^-Z*W'T$Q~N{K}
A sending packet with segnum 0 and checksum 233160
A sending packet to B
B gettin' a packet with segnum 768, and checksum 36552
Packet Corrupt!
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Recieved checksum: 36552, seqnum: 768, acknum: 0
Recieved packet data is: 9g693a0^-Z*W'T$Q~N{K
Expected checksum: 235464
Packet Corrupt!
Recieved checksum: 36552, seqnum: 768, acknum: 0
Recieved packet data is: 9g693a0^-Z*W'T$Q~N{K
Expected checksum: 235464
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, segnum: 1308622848, acknum: 0
Recieved packet data is:
Expected checksum: -369097894
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1308622848. last transmitted seqnum: 0
Last sent packet Checksum: 233160
Packet Corrupt!
Recieved checksum: 936, segnum: 1308622848, acknum: 0
Recieved packet data is:
Expected checksum: -369097894
A: no valid ACK, got instead with corruption. Resending packet with
checksum 233160 and data 9q693a0^-Z*W'T$Q~N{K.
A: 299598.8916, Layer 5 to 4 Message = :fZ;:[\{\}=|^>\}3?~`A!
A timed out. Sending packet with seqnum 0, and checksum 233160 again
B gettin' a packet with segnum 0, and checksum 233160
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 300031.5153, Layer 4 to 5 Message = 9g693a0^-Z*W'T$Q~N{K}
Setting comp segnum from 0 to 1
A: 300225.4748, Layer 5 to 4 Message = ;.~qd;I;.~qdVI;.~qdV
A timed out. Sending packet with seqnum 0, and checksum 233160 again
B gettin' a packet with segnum 0, and checksum 233160
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 233160 again
B gettin' a packet with seqnum 0, and checksum 233160
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: N
Expected checksum: 24144
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 233160
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: N
Expected checksum: 24144
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 233160 and data 9g693a0^-Z*W'T$Q~N{K.
   301431.5127, Layer 5 to 4 Message = \langle AEIMQ \langle Y \rangle fjnrvz \rangle -
A timed out. Sending packet with segnum 0, and checksum 233160 again
B gettin' a packet with segnum 0, and checksum 233160
incorrect seqnum
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```
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 233160
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: :fZ;:[<{]=|^>}3?^{A}!
A sending packet with segnum 1 and checksum 226621 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 226621
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 301586.1385, Layer 4 to 5 Message = :fZ;:[\{ \} = |^{>} \}3?~`A!
Setting comp seqnum from 1 to 0
A: 301703.1670, Layer 5 to 4 Message = Si \sim 6Lb = xEZp (=Si \sim 6Lb
A timed out. Sending packet with seqnum 1, and checksum 226621 again
B gettin' a packet with segnum 1, and checksum 226621
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, segnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -11736
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 226621
Packet Corrupt!
Recieved checksum: 768, segnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -11736
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 226621 and data :fZ;:[\{ \} = | ^> \} 3?^{`}A!.
B gettin' a packet with seqnum 1, and checksum 226621
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 226621
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ;.~qd;I;.~qdVI;.~qdV
A sending packet with seqnum 0 and checksum 256903 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 256903
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 302167.0424, Layer 4 to 5 Message = ;.~qd;I;.~qdVI;.~qdV
Setting comp_seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 256903 again
A: 303000.2973, Layer 5 to 4 Message = dfxV{Gn7>(Ov2q0W~Ho8)
A timed out. Sending packet with seqnum 0, and checksum 256903 again
B gettin' a packet with segnum 0, and checksum 256903
Packet Corrupt!
Recieved checksum: 256903, seqnum: 0, acknum: 0
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Recieved packet data is: ;.~qd;d;.~qdVI;.~qIV
Expected checksum: 248479
Packet Corrupt!
Recieved checksum: 256903, seqnum: 0, acknum: 0
Recieved packet data is: ;.~qd;d;.~qdVI;.~qIV
Expected checksum: 248479
Packet corrupt
Sending bACK a NAK!
A: 303449.9360, Layer 5 to 4 Message = 2xS.qBzU0?D|W2kF\sim Y4m
A timed out. Sending packet with segnum 0, and checksum 256903 again
B gettin' a packet with segnum 0, and checksum 5696391
Packet Corrupt!
Recieved checksum: 5696391, seqnum: 0, acknum: 0
Recieved packet data is: ;.~qd;I;.~qd I;.~qdV
Expected checksum: 242876
Packet Corrupt!
Recieved checksum: 5696391, seqnum: 0, acknum: 0
Recieved packet data is: ;.~qd;I;.~qd I;.~qdV
Expected checksum: 242876
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 256903
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: <AEIMQ<Y^bfjnrvz~%) -
A sending packet with segnum 1 and checksum 240451 from the queue
A sending packet to B
A: 303716.8238, Layer 5 to 4 Message = A-wdP<)s`LA%o[H4~kWD
A timed out. Sending packet with seqnum 1, and checksum 240451 again
B gettin' a packet with segnum 1, and checksum 240451
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 304212.0392, Layer 4 to 5 Message = <AEIMQ<Y^bfjnrvz~%)-
Setting comp_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: =Si~6Lb=xEZp(=Si~6Lb
A sending packet with segnum 0 and checksum 244524 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 244524
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 304222.3322, Layer 4 to 5 Message = Si \sim 6Lb = xEZp (Si \sim 6Lb
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dfxV}Gn7>(Ov2g0W~Ho8
A sending packet with seqnum 1 and checksum 236977 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 236977
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
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B: 304253.4949, Layer 4 to 5 Message = dfxV{Gn7>(Ov2g0W~Ho8
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ?xS.gBzU0?D|W2kF~Y4m
A sending packet with seqnum 0 and checksum 248710 from the queue
A sending packet to B
                 Layer 5 to 4 Message = B?=;97531x-B)'%#~|zx
A:
   304420.5006,
A timed out. Sending packet with segnum 0, and checksum 248710 again
B gettin' a packet with segnum 0, and checksum 248710
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 304770.1910, Layer 4 to 5 Message = 2xS.gBzU0?D|W2kF\sim Y4m
Setting comp seqnum from 0 to 1
A: 305081.6520, Layer 5 to 4 Message = CRbq#2BQap!1CP`o~0?0
A timed out. Sending packet with seqnum 0, and checksum 248710 again
B gettin' a packet with segnum 0, and checksum 248710
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 0
Recieved packet data is: NKA
Expected checksum: 889
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 248710
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 0
Recieved packet data is: NKA
Expected checksum: 889
A: no valid ACK, got NKA instead with corruption. Resending packet with
checksum 248710 and data ?xS.gBzU0?D|W2kF~Y4m.
B gettin' a packet with seqnum 0, and checksum 248710
Packet Corrupt!
Recieved checksum: 248710, seqnum: 0, acknum: 0
Recieved packet data is: ?xB.gSzU0?D|W2kF~Y4m
Expected checksum: 249169
Packet Corrupt!
Recieved checksum: 248710, seqnum: 0, acknum: 0
Recieved packet data is: ?xB.gSzU0?D|W2kF~Y4m
Expected checksum: 249169
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 248710
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: A-wdP<)s`LA%o[H4~kWD
A sending packet with seqnum 1 and checksum 240736 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 240736
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
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B: 305321.4846, Layer 4 to 5 Message = A-wdP<)s`LA%o[H4~kWD
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: B?=;97531x-B)'%#~|zx
A sending packet with seqnum 0 and checksum 242408 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 242408
Packet Corrupt!
Recieved checksum: 242408, seqnum: 0, acknum: 0
Recieved packet data is: -?=;97531xBB)'%#~|zx
Expected checksum: 244928
Packet Corrupt!
Recieved checksum: 242408, seqnum: 0, acknum: 0
Recieved packet data is: -?=;97531xBB)'%#~|zx
Expected checksum: 244928
Packet corrupt
Sending bACK a NAK!
A: 305548.6734, Layer 5 to 4 Message = Df(Ij-No2St7XD3^~Bc&
A timed out. Sending packet with seqnum 0, and checksum 242408 again
B gettin' a packet with segnum 0, and checksum 242408
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 305841.0073, Layer 4 to 5 Message = B?=; 97531x-B) '%#~|zx
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: CRbq#2BQap!1CP`o~0?0
A sending packet with segnum 1 and checksum 227538 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 227538
Packet Corrupt!
Recieved checksum: 227538, seqnum: 1, acknum: 35
Recieved packet data is: CRbq
Expected checksum: 226593
Packet Corrupt!
Recieved checksum: 227538, seqnum: 1, acknum: 35
Recieved packet data is: CRbq
Expected checksum: 226593
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 227538 and data CRbq#2BQap!1CP`o~0?O. corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 227538
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 305918.8049, Layer 4 to 5 Message = CRbg#2BQap!1CP`o~0?0
Setting comp_seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 227538 again
B gettin' a packet with seqnum 1, and checksum 227538
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
```

```
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 227538
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Df(Ij-No2St7XD3^~Bc&
A sending packet with segnum 0 and checksum 223905 from the queue
 A sending packet to B
       306737.1470, Layer 5 to 4 Message = EwL \sim S(Zxb6i = pEEL \sim S(Zxb6i = pEE
A timed out. Sending packet with segnum 0, and checksum 223905 again
B gettin' a packet with segnum 0, and checksum 223905
Packet Corrupt!
Recieved checksum: 223905, seqnum: 0, acknum: 5111808
Recieved packet data is: Df(Ij-
Expected checksum: -10003533
Packet Corrupt!
Recieved checksum: 223905, segnum: 0, acknum: 5111808
Recieved packet data is: Df(Ij-
Expected checksum: -10003533
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 1090519976, segnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 676
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 1090519976, segnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 676
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 223905 and data Df(Ij-No2St7XD3^~Bc&.
B gettin' a packet with segnum 0, and checksum 223905
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 306972.5080, Layer 4 to 5 Message = Df(Ij-No2St7XD3^~Bc&
Setting comp_seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: EwL~S(Zxb6i=pEEL~S(Z
A sending packet with segnum 1 and checksum 234782 from the queue
 A sending packet to B
B gettin' a packet with seqnum 1, and checksum 234782
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
      306990.1018, Layer 4 to 5 Message = EwL~S(Zxb6i=pEEL~S(Z
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 307720.0312, Layer 5 to 4 Message = d,pV<#gM3w^D2nTF~eK1
A sending packet with seqnum 0 and checksum 235158
 A sending packet to B
B gettin' a packet with segnum 0, and checksum 235158
Packet Corrupt!
Recieved checksum: 235158, seqnum: 0, acknum: 0
Recieved packet data is: bKpV<#gM3w^D3nTF~e,1
```

```
Packet Corrupt!
Recieved checksum: 235158, segnum: 0, acknum: 0
Recieved packet data is: bKpV<#gM3w^D3nTF~e,1
Expected checksum: 224258
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 235158 and data d,pV<#qM3w^D2nTF~eK1. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 235158
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   307769.9907, Layer 4 to 5 Message = d,pV<#gM3w^D2nTF~eK1
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
   308962.1166, Layer 5 to 4 Message = G>6.&{skcZRJB91)Gvnf
A sending packet with segnum 1 and checksum 240033
A sending packet to B
B gettin' a packet with segnum 1, and checksum 240033
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 308968.6148, Layer 4 to 5 Message = G>6.&{skcZRJB91}Gvnf
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
   309830.8611, Layer 5 to 4 Message = HQZdmv!+4=GPYclu~H3<
A sending packet with segnum 0 and checksum 235344
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 235344
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 309848.1039, Layer 4 to 5 Message = HQZdmv!+4=GPYclu~H3<
Setting comp seqnum from 0 to 1
A timed out. Sending packet with segnum 0, and checksum 235344 again
B gettin' a packet with segnum 0, and checksum 235344
Packet Corrupt!
Recieved checksum: 235344, segnum: 0, acknum: 27648
Recieved packet data is: HQZdmv!+4=GPYc
Expected checksum: 155748
Packet Corrupt!
Recieved checksum: 235344, seqnum: 0, acknum: 27648
Recieved packet data is: HQZdmv!+4=GPYc
Expected checksum: 155748
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 235344
Not corrupt, but bad sequence number, sending next boi
A: 310887.9784, Layer 5 to 4 Message = Id~; Vq.Id~; Vq.Id~; Iq
```

Expected checksum: 224258

```
A sending packet with seqnum 1 and checksum 253065
A sending packet to B
A timed out. Sending packet with segnum 1, and checksum 253065 again
B gettin' a packet with seqnum 1, and checksum 253065
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 311413.0360, Layer 4 to 5 Message = Id~; Vq.Id~; Vq.Id~; Iq
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 312779.6939, Layer 5 to 4 Message = JvEq?1:g5b0]+W&R~MyJ
A sending packet with segnum 0 and checksum 239592
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 239592
Packet Corrupt!
Recieved checksum: 239592, seqnum: 0, acknum: 0
Recieved packet data is: J0Eq?l:q5bv]+W&R~MyJ
Expected checksum: 247782
Packet Corrupt!
Recieved checksum: 239592, seqnum: 0, acknum: 0
Recieved packet data is: J0Eq?l:g5bv]+W&R~MyJ
Expected checksum: 247782
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 239592 again
B gettin' a packet with segnum 0, and checksum 239592
Packet Corrupt!
Recieved checksum: 239592, seqnum: 0, acknum: 1644167168
Recieved packet data is: JvEq?1:q5
Expected checksum: 1006862752
Packet Corrupt!
Recieved checksum: 239592, seqnum: 0, acknum: 1644167168
Recieved packet data is: JvEq?1:g5
Expected checksum: 1006862752
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 239592 and data JvEq?l:g5b0]+W&R~MyJ. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 7972840
Packet Corrupt!
Recieved checksum: 7972840, segnum: 0, acknum: 0
Recieved packet data is: JvEq?l:g5b0]+W&R~M J
Expected checksum: 196994
Packet Corrupt!
Recieved checksum: 7972840, segnum: 0, acknum: 0
Recieved packet data is: JvEq?l:g5b0]+W&R~M J
Expected checksum: 196994
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 239592 again
A timed out. Sending packet with seqnum 0, and checksum 239592 again
A: 314764.9055, Layer 5 to 4 Message = K+iI)gG'eE%cC#aA~ >|
A timed out. Sending packet with seqnum 0, and checksum 239592 again
B gettin' a packet with segnum 0, and checksum 239592
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
```

```
B sending message up to layer 5 and updating newest recieved data
B: 314843.5881, Layer 4 to 5 Message = JvEq?1:q5b0]+W&R~MyJ
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: K+iI)gG'eE%cC#aA~ >|
A sending packet with segnum 1 and checksum 242632 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 242632
Packet Corrupt!
Recieved checksum: 242632, seqnum: 1, acknum: 0
Recieved packet data is: K+iIegG')E%cC#aA~ >|
Expected checksum: 239272
Packet Corrupt!
Recieved checksum: 242632, segnum: 1, acknum: 0
Recieved packet data is: K+iIegG')E%cC#aA~ >|
Expected checksum: 239272
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 242632 and data K+iI)gG'eE%cC#aA\sim >|. corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 242632
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 314893.2880, Layer 4 to 5 Message = K+iI)gG'eE%cC#aA\sim >|
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
A: 315971.3843, Layer 5 to 4 Message = LLx~pbSE6(wiZL=x~pbS
A sending packet with segnum 0 and checksum 271934
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 271934
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 315975.5179, Layer 4 to 5 Message = LLx~pbSE6(wiZL=x~pbS
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, segnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1075
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1075
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 271934 and data LLx~pbSE6(wiZL=x~pbS.
B gettin' a packet with seqnum 0, and checksum 271934
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 271934 again
B gettin' a packet with segnum 0, and checksum 271934
incorrect seqnum
```

```
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 0, acknum: 16777216
Recieved packet data is: NAK
Expected checksum: -33553496
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 16777216
Recieved packet data is: NAK
Expected checksum: -33553496
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 271934 and data LLx~pbSE6(wiZL=x~pbS.
B gettin' a packet with segnum 0, and checksum 271934
Packet Corrupt!
Recieved checksum: 271934, segnum: 0, acknum: 0
Recieved packet data is: LLx~pbSZ6(wiEL=x~pbS
Expected checksum: 269729
Packet Corrupt!
Recieved checksum: 271934, seqnum: 0, acknum: 0
Recieved packet data is: LLx~pbSZ6(wiEL=x~pbS
Expected checksum: 269729
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 271934
Not corrupt, but bad sequence number, sending next boi
A: 317134.7930, Layer 5 to 4 Message = dfMVY] cfilo2u3{~$'*
A sending packet with segnum 1 and checksum 220232
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 220232 again
A: 317774.5370, Layer 5 to 4 Message = NcwNCWl#7Lau,AUj~5J
A timed out. Sending packet with seqnum 1, and checksum 220232 again
B gettin' a packet with seqnum 1, and checksum 220232
Packet Corrupt!
Recieved checksum: 220232, seqnum: 1, acknum: 0
Recieved packet data is: bfMVY]`~filo3u3{c$'*
Expected checksum: 214324
Packet Corrupt!
Recieved checksum: 220232, seqnum: 1, acknum: 0
Recieved packet data is: bfMVY] `~filo3u3{c$'*
Expected checksum: 214324
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 220232 and data dfMVY] `cfilo2u3{~$'*. corrupted from
A to B, resending
A timed out. Sending packet with seqnum 1, and checksum 220232 again
   318807.3160, Layer 5 to 4 Message = Ou=dORxAgxU{Dj2X~Gm5
A timed out. Sending packet with segnum 1, and checksum 220232 again
B gettin' a packet with seqnum 1, and checksum 220232
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 319172.2822, Layer 4 to 5 Message = dfMVY]`cfilo2u3{~$'*
Setting comp seqnum from 1 to 0
```

```
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, segnum: 1, acknum: 1124073473
Recieved packet data is: A
Expected checksum: 2046821016
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, segnum: 1, acknum: 1124073473
Recieved packet data is: A
Expected checksum: 2046821016
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 220232 and data dfMVY] `cfilo2u3{~$'*.
B gettin' a packet with seqnum 1, and checksum 220232
Packet Corrupt!
Recieved checksum: 220232, seqnum: 1, acknum: 7077888
Recieved packet data is: bfMVY] `cfi
Expected checksum: -13948445
Packet Corrupt!
Recieved checksum: 220232, seqnum: 1, acknum: 7077888
Recieved packet data is: bfMVY] `cfi
Expected checksum: -13948445
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 220232 again
A timed out. Sending packet with seqnum 1, and checksum 220232 again
A: 320469.0505, Layer 5 to 4 Message = P*b;sP' 8pJ$[5mG~X2j
A timed out. Sending packet with seqnum 1, and checksum 220232 again
B gettin' a packet with seqnum 1, and checksum 220232
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, segnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -7864
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 220232
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -7864
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 220232 and data dfMVY] `cfilo2u3{~$'*.
B gettin' a packet with seqnum 1, and checksum 220232
Packet Corrupt!
Recieved checksum: 220232, seqnum: 1, acknum: 24576
Recieved packet data is: bfMVY]
Expected checksum: 166543
Packet Corrupt!
Recieved checksum: 220232, segnum: 1, acknum: 24576
Recieved packet data is: bfMVY]
Expected checksum: 166543
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
```

packet's seqnum: 0. last transmitted seqnum: 1

```
Last sent packet Checksum: 220232
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: NcwNCWl#7Lau, AUj~5J
A sending packet with seqnum 0 and checksum 240432 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 240432
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 320736.4515, Layer 4 to 5 Message = NcwNCWl#7Lau, AUj~5J
Setting comp_seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 240432 again
B gettin' a packet with seqnum 0, and checksum 240432
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 240432
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Ou=dORxAgxU{Dj2X~Gm5
A sending packet with seqnum 1 and checksum 251942 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 251942
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 321248.0673, Layer 4 to 5 Message = Ou=dORxAgxU{Dj2X\sim Gm5}
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: P*b;sP' 8pJ$[5mG~X2j
A sending packet with segnum 0 and checksum 239461 from the queue
A sending packet to B
   321488.4971, Layer 5 to 4 Message = Q<(q]HQ|hS>*s_J5~jUA
   321560.7455, Layer 5 to 4 Message = ROLIFC?R9630-*'$~{xu
A timed out. Sending packet with seqnum 0, and checksum 239461 again
B gettin' a packet with seqnum 0, and checksum 239461
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 321761.8550, Layer 4 to 5 Message = P*b;sP' 8pJ$[5mG~X2j
Setting comp seqnum from 0 to 1
A: 321838.9037, Layer 5 to 4 Message = Sbp~x=LZSw(6ESbp~x=L
A: 322037.3091, Layer 5 to 4 Message = dt6Vv8Xx:Tz<2|> ~Aa#
A timed out. Sending packet with seqnum 0, and checksum 239461 again
A: 322638.1350, Layer 5 to 4 Message = U)Z.`3e8j=UCtHyM~R&W
A timed out. Sending packet with seqnum 0, and checksum 239461 again
B gettin' a packet with seqnum 0, and checksum 239461
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 239461 again
B gettin' a packet with seqnum 0, and checksum 239461
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 239461 again
A: 323857.5528, Layer 5 to 4 Message = Vf \sim dI.qV; \sim dV.q3; \sim dI.
A timed out. Sending packet with seqnum 0, and checksum 239461 again
```

```
B gettin' a packet with seqnum 25088, and checksum 239461
Packet Corrupt!
Recieved checksum: 239461, segnum: 25088, acknum: 0
Recieved packet data is: P*
Expected checksum: 313843
Packet Corrupt!
Recieved checksum: 239461, seqnum: 25088, acknum: 0
Recieved packet data is: P*
Expected checksum: 313843
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 239461 again
A: 325103.5242, Layer 5 to 4 Message = WNE;2)}tkbXOW<3*~ulc
A timed out. Sending packet with seqnum 0, and checksum 239461 again
A timed out. Sending packet with seqnum 0, and checksum 239461 again
   326068.6104, Layer 5 to 4 Message = Xaiqy\$, 4 \le Mu^Xnv^2) 19
A timed out. Sending packet with seqnum 0, and checksum 239461 again
B gettin' a packet with seqnum 0, and checksum 239461
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 239461
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Q<(q]HQ|hS>*s J5~jUA
A sending packet with segnum 1 and checksum 245227 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 245227
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 326311.1623, Layer 4 to 5 Message = Q<(q]HQ|hS>*s J5~jUA
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 245227 again
B gettin' a packet with seqnum 1, and checksum 245227
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 245227 again
A timed out. Sending packet with segnum 1, and checksum 245227 again
B gettin' a packet with segnum 1, and checksum -1123876629
Packet Corrupt!
Recieved checksum: -1123876629, seqnum: 1, acknum: 0
Recieved packet data is: Q<(q]HQ|hS>*s J5~jUA
Expected checksum: 245227
Packet Corrupt!
Recieved checksum: -1123876629, seqnum: 1, acknum: 0
Recieved packet data is: Q<(q]HQ|hS>*s J5~jUA
Expected checksum: 245227
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 245227
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ROLIFC?R9630-*'$~{xu
A sending packet with segnum 0 and checksum 237984 from the queue
```

```
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 237984
Packet Corrupt!
Recieved checksum: 237984, seqnum: 0, acknum: 0
Recieved packet data is: RO9IFC?RL630-*'$~{xu
Expected checksum: 239352
Packet Corrupt!
Recieved checksum: 237984, segnum: 0, acknum: 0
Recieved packet data is: RO9IFC?RL630-*'$~{xu
Expected checksum: 239352
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 237984 and data ROLIFC?R9630-*'$~{xu. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 237984
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   327864.0785, Layer 4 to 5 Message = ROLIFC?R9630-*'^{\text{xu}}
Setting comp segnum from 0 to 1
   327864.4912, Layer 5 to 4 Message = YsxIc|8Rl(B[u1Ye~:Tn
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 835, seqnum: 0, acknum: 1
Recieved packet data is: A; K
Expected checksum: 281
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 835, seqnum: 0, acknum: 1
Recieved packet data is: A; K
Expected checksum: 281
A: no valid ACK, got A;K instead with corruption. Resending packet with
checksum 237984 and data ROLIFC?R9630-*'$~{xu.
B gettin' a packet with seqnum 0, and checksum 237984
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 237984
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Sbp~x=LZSw(6ESbp~x=L
A sending packet with seqnum 1 and checksum 255710 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 5039838
Packet Corrupt!
Recieved checksum: 5039838, segnum: 1, acknum: 0
Recieved packet data is: Sbp~x= ZSw(6ESbp~x=L
Expected checksum: 252133
Packet Corrupt!
Recieved checksum: 5039838, seqnum: 1, acknum: 0
Recieved packet data is: Sbp~x= ZSw(6ESbp~x=L
Expected checksum: 252133
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
```

```
Packet with checksum 255710 and data Sbp~x=LZSw(6ESbp~x=L. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 255710
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 327921.8459, Layer 4 to 5 Message = Sbp~x=LZSw(6ESbp~x=L
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dt6Vv8Xx:Tz<2|> ~Aa#
A sending packet with segnum 0 and checksum 233322 from the queue
A sending packet to B
A: 328000.5970, Layer 5 to 4 Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE)
A timed out. Sending packet with seqnum 0, and checksum 233322 again
A timed out. Sending packet with seqnum 0, and checksum 233322 again
B gettin' a packet with seqnum 0, and checksum 233322
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 328952.3930, Layer 4 to 5 Message = dt6Vv8Xx:Tz<2|> ~Aa#
Setting comp segnum from 0 to 1
   329353.1421, Layer 5 to 4 Message = d:wV5rQ0mL+h2&cB[^<y
A timed out. Sending packet with segnum 0, and checksum 233322 again
A timed out. Sending packet with seqnum 0, and checksum 233322 again
A timed out. Sending packet with seqnum 0, and checksum 233322 again
B gettin' a packet with seqnum 0, and checksum 233322
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 5111808
Recieved packet data is:
Expected checksum: -10222755
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 233322
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 5111808
Recieved packet data is:
Expected checksum: -10222755
A: no valid ACK, got instead with corruption. Resending packet with
checksum 233322 and data dt6Vv8Xx:Tz<2|>_~Aa#. A timed out. Sending packet with seqnum 0, and checksum 233322 again
B gettin' a packet with seqnum 0, and checksum 233322
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 233322
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: U)Z.`3e8j=UCtHyM~R&W
A sending packet with segnum 1 and checksum 241262 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 241262
Expected packet compared and confirmed
```

```
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 330983.7817, Layer 4 to 5 Message = U)Z.`3e8j=UCtHyM~R&W
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Vf~dI.qV;~dV.q3;~dI.
A sending packet with segnum 0 and checksum 229604 from the queue
A sending packet to B
A: 331352.0969, Layer 5 to 4 Message = ]M=.|m^N>x\}n O?0~]`P
A timed out. Sending packet with seqnum 0, and checksum 229604 again
B gettin' a packet with segnum 0, and checksum 229604
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   331499.7199, Layer 4 to 5 Message = Vf~dI.qV;~dV.q3;~dI.
Setting comp seqnum from 0 to 1
A timed out. Sending packet with segnum 0, and checksum 229604 again
B gettin' a packet with segnum 0, and checksum 229604
Packet Corrupt!
Recieved checksum: 229604, seqnum: 0, acknum: 0
Recieved packet data is: Vf~dI.VV;~dq.q3;~dI.
Expected checksum: 232169
Packet Corrupt!
Recieved checksum: 229604, seqnum: 0, acknum: 0
Recieved packet data is: Vf~dI.VV;~dq.q3;~dI.
Expected checksum: 232169
Packet corrupt
Sending bACK a NAK!
A: 332095.7628, Layer 5 to 4 Message = ^`bdfhjlnprtvxz|~#^'
A timed out. Sending packet with segnum 0, and checksum 229604 again
A timed out. Sending packet with segnum 0, and checksum 229604 again
A: 333004.6814, Layer 5 to 4 Message = _r(;Ocv,?Sgz0DWk\sim4H_ A timed out. Sending packet with seqnum 0, and checksum 229604 again
A timed out. Sending packet with seqnum 0, and checksum 229604 again
B gettin' a packet with seqnum 1677721600, and checksum 229604
Packet Corrupt!
Recieved checksum: 229604, seqnum: 1677721600, acknum: 0
Recieved packet data is: Vf~
Expected checksum: 738425508
Packet Corrupt!
Recieved checksum: 229604, seqnum: 1677721600, acknum: 0
Recieved packet data is: Vf~
Expected checksum: 738425508
Packet corrupt
Sending bACK a NAK!
A: 334039.1363, Layer 5 to 4 Message = `fLq8^%Jo6[#Hm3Y~Fk2
A timed out. Sending packet with seqnum 0, and checksum 229604 again
B gettin' a packet with segnum 0, and checksum 229604
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 11207424, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 939
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
```

```
Last sent packet Checksum: 229604
Packet Corrupt!
Recieved checksum: 11207424, segnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 939
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 229604 and data Vf~dI.qV;~dV.q3;~dI..
B gettin' a packet with segnum 0, and checksum 229604
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1239
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 229604
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1239
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 229604 and data Vf~dI.qV;~dV.q3;~dI..
A: 334623.9765, Layer 5 to 4 Message = aapI!X1hAwP)`80H~W0g
A timed out. Sending packet with seqnum 0, and checksum 229604 again
B gettin' a packet with seqnum 0, and checksum 229604
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 229604
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: WNE; 2) }tkbXOW<3*~ulc
A sending packet with seqnum 1 and checksum 260256 from the queue \,
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 260256
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 335038.5737, Layer 4 to 5 Message = WNE;2)}tkbXOW<3*~ulc
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Xaiqy$,4<EMU^Xnv~)19
A sending packet with segnum 0 and checksum 224553 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 224553
Packet Corrupt!
Recieved checksum: 224553, segnum: 0, acknum: 0
Recieved packet data is: Xaiqy$,4<EMU^nXv~)19
Expected checksum: 223915
Packet Corrupt!
Recieved checksum: 224553, segnum: 0, acknum: 0
Recieved packet data is: Xaiqy$,4<EMU^nXv~)19</pre>
```

Expected checksum: 223915

```
Packet corrupt
Sending bACK a NAK!
A: 335531.5595, Layer 5 to 4 Message = bLb \sim iS = (pZExwbL6 \sim iS = 1)
A timed out. Sending packet with seqnum 0, and checksum 224553 again
B gettin' a packet with seqnum 0, and checksum 224553
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 335570.3450, Layer 4 to 5 Message = Xaiqy$, 4 < EMU^Xnv^2) 19
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 1904
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 1904
A: no valid ACK, got instead with corruption. Resending packet with
checksum 224553 and data Xaiqy$, 4<EMU^Xnv~)19.
A timed out. Sending packet with seqnum 0, and checksum 224553 again
B gettin' a packet with seqnum 0, and checksum 224553
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 1464
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 224553
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 1464
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 224553 and data Xaiqy$, 4<EMU^Xnv~)19.
A timed out. Sending packet with seqnum 0, and checksum 224553 again
A: 336867.8898, Layer 5 to 4 Message = d ZcRNJFB=952-)%~zvr
A timed out. Sending packet with seqnum 0, and checksum 224553 again
B gettin' a packet with seqnum 0, and checksum 224553
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 224553
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: YsxIc|8Rl(B[u1Ye~:Tn
A sending packet with seqnum 1 and checksum 256280 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 256280
Packet Corrupt!
Recieved checksum: 256280, seqnum: 1, acknum: 0
Recieved packet data is: YsxIc|8Rl(B[e1Yu~:Tn
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```
Recieved checksum: 256280, segnum: 1, acknum: 0
Recieved packet data is: YsxIc|8Rl(B[e1Yu~:Tn
Expected checksum: 257672
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 256280 again
B gettin' a packet with seqnum 1, and checksum 256280
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
\ensuremath{\mathtt{B}} sending message up to layer 5 and updating newest recieved data
B: 337629.5807, Layer 4 to 5 Message = YsxIc|8Rl(B[u1Ye~:Tn
Setting comp seqnum from 1 to 0
A: 337686.2759, Layer 5 to 4 Message = dq~.dIVdq~.;IVdq~.;I
A timed out. Sending packet with segnum 1, and checksum 256280 again
B gettin' a packet with seqnum 1, and checksum 256280
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 256280
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Z(S~LwEp=i6bxZ(Z~LwE
A sending packet with segnum 0 and checksum 257313 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 257313
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   338140.6275, Layer 4 to 5 Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: d:wV5rQ0mL+h2&cB[^<y
A sending packet with seqnum 1 and checksum 233667 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 233667
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 338154.8499, Layer 4 to 5 Message = d:wV5rQ0mL+h2&cB[^<y
Setting comp_seqnum from 1 to 0
A: 338175.9223, Layer 5 to 4 Message = e&Ed%ec$Cb#Ba!A`~?_}
A timed out. Sending packet with seqnum 1, and checksum 233667 again
B gettin' a packet with seqnum 1, and checksum 233667
Packet Corrupt!
Recieved checksum: 233667, seqnum: 1, acknum: 0
Recieved packet data is: b:wV5rc0mL+h3&QB[^<y
Expected checksum: 230666
Packet Corrupt!
Recieved checksum: 233667, seqnum: 1, acknum: 0
Recieved packet data is: b:wV5rc0mL+h3&QB[^<y</pre>
Expected checksum: 230666
Packet corrupt
Sending bACK a NAK!
A: 338839.5072, Layer 5 to 4 Message = f8i;1>fBrEuHxK{N~Q$T
```

Expected checksum: 257672

Packet Corrupt!

```
A timed out. Sending packet with seqnum 1, and checksum 233667 again
A timed out. Sending packet with seqnum 1, and checksum 233667 again
B gettin' a packet with seqnum 1, and checksum 233667
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 233667
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ]M=.|m^N>x}n O?0~]`P
A sending packet with segnum 0 and checksum 257422 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 257422
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   339712.6781, Layer 4 to 5 Message = ]M=.|m^N>x\}n O?0~]`P
Setting comp segnum from 0 to 1
   339715.5726, Layer 5 to 4 Message = gKxqU9\{gD(jN2tX<\sim cG+
A timed out. Sending packet with seqnum 0, and checksum 257422 again
A timed out. Sending packet with seqnum 0, and checksum 257422 again
A timed out. Sending packet with seqnum 0, and checksum 257422 again
A: 341670.6177, Layer 5 to 4 Message = h^SI>4* hi TJ?5+\sim tj
A timed out. Sending packet with seqnum 0, and checksum 257422 again
A timed out. Sending packet with seqnum 0, and checksum 257422 again
A timed out. Sending packet with seqnum 0, and checksum 257422 again
B gettin' a packet with seqnum 0, and checksum 257422
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 257422 again
B gettin' a packet with segnum 0, and checksum 257422
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A: 343228.4461, Layer 5 to 4 Message = ifw~(x6=EiSZbi3w~(x6
A timed out. Sending packet with seqnum 0, and checksum 257422 again
A timed out. Sending packet with seqnum 0, and checksum 257422 again
B gettin' a packet with seqnum 0, and checksum 257422
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
A: 344308.2441, Layer 5 to 4 Message = d=Vo*C[txja24Mf~9Rk
A timed out. Sending packet with seqnum 0, and checksum 257422 again
B gettin' a packet with seqnum 0, and checksum 257422
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 1258292139, seqnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 264
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 257422
Packet Corrupt!
Recieved checksum: 1258292139, segnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 264
```

```
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 257422 and data ]M=.|m^N>x}n O?0~]`P.
B gettin' a packet with seqnum 0, and checksum 257422
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 257422
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ^`bdfhjlnprtvxz|~#^'
A sending packet with seqnum 1 and checksum 271838 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 271838 again
B gettin' a packet with seqnum 1, and checksum 271838
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 345266.2587, Layer 4 to 5 Message = ^`bdfhjlnprtvxz|~#^'
Setting comp segnum from 1 to 0
Printing the contents of the Simulation Event Q
Event Time = 345735.668 A: Timer
A: 345507.4564, Layer 5 to 4 Message = k7b.X%OyFp < k3^*T \sim KuB
Printing the contents of the Simulation Event Q
Event Time = 346815.445 A: LAYER 5
A timed out. Sending packet with seqnum 1, and checksum 271838 again
Printing the contents of the Simulation Event Q
Event Time = 346235.668 A: Timer
Event Time = 346815.445 A: LAYER 5
B gettin' a packet with seqnum 1, and checksum 271838
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Printing the contents of the Simulation Event Q
Event Time = 346235.668 A: Timer
Event Time = 346815.445 A: LAYER 5
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1044
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 271838
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1044
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 271838 and data ^`bdfhjlnprtvxz|~#^'.
```

```
Printing the contents of the Simulation Event Q
Event Time = 346270.216 A: Timer
Event Time = 346815.445 A: LAYER 5
B gettin' a packet with seqnum 1, and checksum 271838
Packet Corrupt!
Recieved checksum: 271838, seqnum: 1, acknum: 0
Recieved packet data is: ^`ndfhjlbprtvxz|~#^'
Expected checksum: 270974
Packet Corrupt!
Recieved checksum: 271838, seqnum: 1, acknum: 0
Recieved packet data is: ^`ndfhjlbprtvxz|~#^'
Expected checksum: 270974
Packet corrupt
Sending bACK a NAK!
Printing the contents of the Simulation Event Q
Event Time = 346270.216 A: Timer
Event Time = 346815.445 A: LAYER 5
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1443
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 271838
Packet Corrupt!
Recieved checksum: 168, segnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1443
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 271838 and data ^`bdfhjlnprtvxz|~#^'.
Printing the contents of the Simulation Event Q
Event Time = 346815.445 A: LAYER 5
A timed out. Sending packet with seqnum 1, and checksum 271838 again
Printing the contents of the Simulation Event Q
Event Time = 346815.445 A: LAYER 5
A timed out. Sending packet with seqnum 1, and checksum 271838 again
Printing the contents of the Simulation Event Q
Event Time = 347297.355 A: Timer
   346815.4451, Layer 5 to 4 Message = 1J(dB)[9uS1m1)eC^{-}:v
Printing the contents of the Simulation Event Q
Event Time = 348741.605 A: LAYER 5
A timed out. Sending packet with seqnum 1, and checksum 271838 again
Printing the contents of the Simulation Event Q
Event Time = 347797.355 A: Timer
Event Time = 348741.605 A: LAYER 5
```

```
B gettin' a packet with seqnum 1, and checksum 271740
Packet Corrupt!
Recieved checksum: 271740, seqnum: 1, acknum: 0
Recieved packet data is: ^`bdfhjlnprtvxzP~#^'
Expected checksum: 231390
Packet Corrupt!
Recieved checksum: 271740, seqnum: 1, acknum: 0
Recieved packet data is: ^`bdfhjlnprtvxzP~#^'
Expected checksum: 231390
Packet corrupt
Sending bACK a NAK!
Printing the contents of the Simulation Event Q
Event Time = 347797.355 A: Timer
Event Time = 348741.605 A: LAYER 5
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: -1476395008, acknum: 0
Recieved packet data is: NAK
Expected checksum: -134216792
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: -1476395008. last transmitted segnum: 1
Last sent packet Checksum: 271838
Packet Corrupt!
Recieved checksum: 768, seqnum: -1476395008, acknum: 0
Recieved packet data is: NAK
Expected checksum: -134216792
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 271838 and data ^`bdfhjlnprtvxz|~#^'.
Printing the contents of the Simulation Event Q
Event Time = 347809.268 A: Timer
Event Time = 348741.605 A: LAYER 5
B gettin' a packet with seqnum 1, and checksum 271838
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Printing the contents of the Simulation Event Q
Event Time = 347809.268 A: Timer
Event Time = 348741.605 A: LAYER 5
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 271838
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: r(;Ocv,?Sgz0DWk~4H
A sending packet with segnum 0 and checksum 245010 from the queue
A sending packet to B
Printing the contents of the Simulation Event Q
Event Time = 347834.270 A: Timer
Event Time = 348741.605 A: LAYER 5
B gettin' a packet with seqnum 0, and checksum 245010
```

Expected packet compared and confirmed

```
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 347361.3978, Layer 4 to 5 Message = r(;Ocv,?SgzODWk~4H
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: `fLq8^%Jo6[#Hm3Y~Fk2
A sending packet with segnum 1 and checksum 230209 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 230209
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B:
   347392.8106, Layer 4 to 5 Message = `fLq8^%Jo6[#Hm3Y~Fk2
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: aapI!X1hAwP) `8oH~WOg
A sending packet with segnum 0 and checksum 242120 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 242120
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 347423.2460, Layer 4 to 5 Message = aapI!X1hAwP)`8oH~W0g
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 242120 again
B gettin' a packet with seqnum 0, and checksum 223432
Packet Corrupt!
Recieved checksum: 223432, segnum: 0, acknum: 0
Recieved packet data is: aapI!X1±AwP) `8oH~W0q
Expected checksum: 230408
Packet Corrupt!
Recieved checksum: 223432, seqnum: 0, acknum: 0
Recieved packet data is: aapI!X1±AwP) `8oH~W0g
Expected checksum: 230408
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 242120
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: bLb~iS=(pZExwbL6~iS=
A sending packet with seqnum 1 and checksum 253129 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 253129
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   347922.1178, Layer 4 to 5 Message = bLb~iS=(pZExwbL6~iS=
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: d ZcRNJFB=952-)%~zvr
A sending packet with segnum 0 and checksum 241843 from the queue
```

```
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 241843
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   347942.5659, Layer 4 to 5 Message = d ZcRNJFB=952-)%~zvr
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dq~.dIVdq~.;IVdq~.;I
A sending packet with segnum 1 and checksum 236343 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 236343
Packet Corrupt!
Recieved checksum: 236343, segnum: 1, acknum: 0
Recieved packet data is: dq~.qIVdq~.;IVdd~.;I
Expected checksum: 233340
Packet Corrupt!
Recieved checksum: 236343, segnum: 1, acknum: 0
Recieved packet data is: dq~.qIVdq~.;IVdd~.;I
Expected checksum: 233340
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 236343 and data dg~.dIVdg~.;I. corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 236343
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
    348024.1541, Layer 4 to 5 Message = dq~.dIVdq~.;IVdq~.;I
Setting comp\_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: e&Ed%ec$Cb#Ba!A`~?_}
A sending packet with seqnum 0 and checksum 246262 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 246262
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 348030.9111, Layer 4 to 5 Message = e&Ed%ec$Cb#Ba!A`~? }
Setting comp_seqnum from 0 to 1 \,
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: -3726
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, segnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: -3726
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 246262 and data e&Ed%ec$Cb#Ba!A`~? }.
B gettin' a packet with seqnum 0, and checksum 213750
Packet Corrupt!
```

```
Recieved checksum: 213750, seqnum: 0, acknum: 0
Recieved packet data is: e&Ed%ec$Cb#Áa!A`~? }
Expected checksum: 227686
Packet Corrupt!
Recieved checksum: 213750, seqnum: 0, acknum: 0
Recieved packet data is: e&Ed%ec$Cb#Áa!A`~? }
Expected checksum: 227686
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 246262
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: f8i;1>fBrEuHxK{N~Q$T
A sending packet with seqnum 1 and checksum 248831 from the queue
A sending packet to B
A timed out. Sending packet with segnum 1, and checksum 248831 again
B gettin' a packet with seqnum 1, and checksum 248831
Packet Corrupt!
Recieved checksum: 248831, segnum: 1, acknum: 14336
Recieved packet data is: f
Expected checksum: 219935
Packet Corrupt!
Recieved checksum: 248831, seqnum: 1, acknum: 14336
Recieved packet data is: f
Expected checksum: 219935
Packet corrupt
Sending bACK a NAK!
A: 348741.6046, Layer 5 to 4 Message = m]L;+xhWG6&scmB1~n^M
A timed out. Sending packet with segnum 1, and checksum 248831 again
B gettin' a packet with segnum 1, and checksum 248831
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 349062.7928, Layer 4 to 5 Message = f8i;1>fBrEuHxK{N~Q$T}
Setting comp_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: gKxqU9{qD(jN2tX<~cG+
A sending packet with segnum 0 and checksum 231243 from the queue
A sending packet to B
A timed out. Sending packet with segnum 0, and checksum 231243 again
B gettin' a packet with seqnum 3, and checksum 34635
Packet Corrupt!
Recieved checksum: 34635, seqnum: 3, acknum: 0
Recieved packet data is: gKxqU9{gD(jN2tX<~cG+
Expected checksum: 231252
Packet Corrupt!
Recieved checksum: 34635, seqnum: 3, acknum: 0
Recieved packet data is: gKxqU9{qD(jN2tX<~cG+
Expected checksum: 231252
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 231243 and data gKxqU9{gD(jN2tX<~cG+. corrupted from
A to B, resending
```

```
A: 349994.9541, Layer 5 to 4 Message = nopqrstuvwxyz{n}~!#$
A timed out. Sending packet with seqnum 0, and checksum 231243 again
B gettin' a packet with seqnum 0, and checksum 2852683
Packet Corrupt!
Recieved checksum: 2852683, seqnum: 0, acknum: 0
Recieved packet data is: gKxqU9{gD(jN2tX<~cG
Expected checksum: 215243
Packet Corrupt!
Recieved checksum: 2852683, segnum: 0, acknum: 0
Recieved packet data is: gKxqU9{gD(jN2tX<~cG
Expected checksum: 215243
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 231243 again
B gettin' a packet with seqnum 0, and checksum 231243
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
      350620.9410, Layer 4 to 5 Message = gKxqU9{gD(jN2tX<~cG+
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: h^SI>4*}hi TJ?5+~tj`
A sending packet with seqnum 1 and checksum 256767 from the queue
 A sending packet to B
B gettin' a packet with seqnum 1, and checksum 256767
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
      350639.0435, Layer 4 to 5 Message = h^SI>4*}hi TJ?5+~tj`
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ifw~(x6=EiSZbi3w~(x6
A sending packet with segnum 0 and checksum 247860 from the queue
 A sending packet to B
B gettin' a packet with seqnum 0, and checksum 221748
Packet Corrupt!
Recieved checksum: 221748, seqnum: 0, acknum: 0
Recieved packet data is: ifw~(x6=EiSZÈi3w~(x6
Expected checksum: 221834
Packet Corrupt!
Recieved checksum: 221748, seqnum: 0, acknum: 0
Recieved packet data is: ifw~(x6=EiSZÈi3w~(x6
Expected checksum: 221834
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 247860 and data if w \sim (x6 = EiSZbi3w \sim (x6. corrupted from each of the context of the c
A to B, resending
A timed out. Sending packet with segnum 0, and checksum 247860 again
B gettin' a packet with seqnum 0, and checksum 247860
Packet Corrupt!
Recieved checksum: 247860, seqnum: 0, acknum: 0
Recieved packet data is: ifw~(x6=EixZbi3w~(S6
Expected checksum: 238980
Packet Corrupt!
```

```
Recieved checksum: 247860, seqnum: 0, acknum: 0
Recieved packet data is: ifw~(x6=EixZbi3w~(S6
Expected checksum: 238980
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 247860 and data if w \sim (x6 = EiSZbi3w \sim (x6. corrupted from each of the context of the c
A to B, resending
B gettin' a packet with segnum 0, and checksum 247860
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 351221.2470, Layer 4 to 5 Message = ifw~(x6=EiSZbi3w~(x6
Setting comp seqnum from 0 to 1
A: 351431.4863, Layer 5 to 4 Message = 0\%I[n\#5HZm!4GYo\sim3FX]
A timed out. Sending packet with seqnum 0, and checksum 247860 again
A timed out. Sending packet with seqnum 0, and checksum 247860 again
A: 352317.4580, Layer 5 to 4 Message = p6Z~EixSw=b(Lp6ZpEix
     352630.0897, Layer 5 to 4 Message = dI~V.d;qI~V.2;qI~q.d
A timed out. Sending packet with seqnum 0, and checksum 247860 again
B gettin' a packet with segnum 0, and checksum 247860
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 247860
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d%=Vo*C[txja24Mf~9Rk
A sending packet with segnum 1 and checksum 253046 from the queue
 A sending packet to B
B gettin' a packet with segnum 1, and checksum 253046
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 352730.3768, Layer 4 to 5 Message = d=Vo*C[txja24Mf~9Rk
Setting comp seqnum from 1 to 0
A: 353030.1223, Layer 5 to 4 Message = rfE.u H1xbK4{e37~hr:
A timed out. Sending packet with segnum 1, and checksum 253046 again
B gettin' a packet with segnum 1, and checksum 253046
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 253046
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: k7b.X%OyFp<k3^*T~KuB
A sending packet with segnum 0 and checksum 243901 from the queue
 A sending packet to B
A timed out. Sending packet with segnum 0, and checksum 243901 again
B gettin' a packet with seqnum 0, and checksum 243901
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 353776.4504, Layer 4 to 5 Message = k7b.X\%OyFp<k3^*T\sim KuB
Setting comp segnum from 0 to 1
```

```
A timed out. Sending packet with seqnum 0, and checksum 243901 again
A: 354695.4795, Layer 5 to 4 Message = snid YTOJE?:50+\&~yts
A timed out. Sending packet with segnum 0, and checksum 243901 again
B gettin' a packet with seqnum 0, and checksum 243901
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 243901
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: lJ(dB)[9uS1ml)eC~]:v
A sending packet with segnum 1 and checksum 256798 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 256798
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 354785.6236, Layer 4 to 5 Message = lJ(dB)[9uS1ml)eC~]:v
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, segnum: 1, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1015
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1015
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 256798 and data lJ(dB)[9uS1ml)eC~]:v.
A timed out. Sending packet with segnum 1, and checksum 256798 again
A timed out. Sending packet with seqnum 1, and checksum 256798 again
B gettin' a packet with seqnum 1, and checksum 256798
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 256798
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: m]L;+xhWG6&scmB1~n^M
A sending packet with seqnum 0 and checksum 252677 from the queue
A sending packet to B
B gettin' a packet with seqnum 7143424, and checksum 252677
Packet Corrupt!
Recieved checksum: 252677, segnum: 7143424, acknum: 0
Recieved packet data is: m]L;+xhWG6&sc
Expected checksum: 21661585
Packet Corrupt!
Recieved checksum: 252677, seqnum: 7143424, acknum: 0
Recieved packet data is: m]L;+xhWG6&sc
Expected checksum: 21661585
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
```

```
Packet with checksum 252677 and data m]L;+xhWG6&scmB1~n^M. corrupted from
A to B, resending
B gettin' a packet with seqnum 8257536, and checksum 252677
Packet Corrupt!
Recieved checksum: 252677, seqnum: 8257536, acknum: 0
Recieved packet data is: m]L;+xhWG6&scmB1
Expected checksum: 24988871
Packet Corrupt!
Recieved checksum: 252677, segnum: 8257536, acknum: 0
Recieved packet data is: m]L;+xhWG6&scmB1
Expected checksum: 24988871
Packet corrupt
Sending bACK a NAK!
A: 356311.8758, Layer 5 to 4 Message = t#x; HTamy(4AMYfr~-9F
A timed out. Sending packet with seqnum 0, and checksum 252677 again
B gettin' a packet with seqnum 0, and checksum 252677
Packet Corrupt!
Recieved checksum: 252677, seqnum: 0, acknum: 0
Recieved packet data is: m]s;+xhWG6&LcmB1~n^M
Expected checksum: 247412
Packet Corrupt!
Recieved checksum: 252677, seqnum: 0, acknum: 0
Recieved packet data is: m]s;+xhWG6&LcmB1~n^M
Expected checksum: 247412
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -3376
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -3376
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 252677 and data m]L;+xhWG6&scmB1~n^M.
B gettin' a packet with seqnum 0, and checksum 252677
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 356404.6249, Layer 4 to 5 Message = m]L;+xhWG6&scmB1~n^M
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: nopqrstuvwxyz{n}~!#$
A sending packet with segnum 1 and checksum 252477 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 252477 again
B gettin' a packet with segnum 1, and checksum 7789117
Packet Corrupt!
Recieved checksum: 7789117, seqnum: 1, acknum: 0
Recieved packet data is: nopqrstu wxyz{n}~!#$
Expected checksum: 243162
Packet Corrupt!
Recieved checksum: 7789117, segnum: 1, acknum: 0
Recieved packet data is: nopqrstu wxyz{n}~!#$
```

Expected checksum: 243162

```
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 252477 again
A timed out. Sending packet with seqnum 1, and checksum 252477 again
A: 358210.2198, Layer 5 to 4 Message = uuSq10m-Ki)Ge%Ca~>]z
A timed out. Sending packet with seqnum 1, and checksum 252477 again
A timed out. Sending packet with seqnum 1, and checksum 252477 again
B gettin' a packet with segnum 1, and checksum 252477
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 358928.9724, Layer 4 to 5 Message = nopqrstuvwxyz{n}~!#$
Setting comp\_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: o$6I[n#5HZm!4GYo~3FX
A sending packet with seqnum 0 and checksum 230500 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 230500
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 358951.7075, Layer 4 to 5 Message = 0$6I[n#5HZm!4GYo~3FX]
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: p6Z~EixSw=b(Lp6ZpEix
A sending packet with seqnum 1 and checksum 263749 from the queue
A sending packet to B
A timed out. Sending packet with segnum 1, and checksum 263749 again
B gettin' a packet with segnum 1, and checksum 263749
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 359504.0416, Layer 4 to 5 Message = p6Z~EixSw=b(Lp6ZpEix
Setting comp_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dI~V.d;qI~V.2;qI~q.d
A sending packet with segnum 0 and checksum 247000 from the queue
A sending packet to B
A timed out. Sending packet with segnum 0, and checksum 247000 again
B gettin' a packet with seqnum 0, and checksum 247000
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   360023.9309, Layer 4 to 5 Message = dI~V.d;qI~V.2;qI~q.d
Setting comp seqnum from 0 to 1
A: 360048.7\overline{6}50, Layer 5 to 4 Message = vHvIxJyKzL{M|N}O~P!Q
A timed out. Sending packet with segnum 0, and checksum 247000 again
B gettin' a packet with seqnum 0, and checksum 247000
Packet Corrupt!
Recieved checksum: 247000, seqnum: 0, acknum: 0
Recieved packet data is: bI~..d;qI~V.3;qI~qVd
Expected checksum: 260967
Packet Corrupt!
Recieved checksum: 247000, seqnum: 0, acknum: 0
```

```
Recieved packet data is: bI~..d;qI~V.3;qI~qVd
Expected checksum: 260967
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 247000
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: rfE.u H1xbK4{e37~hr:
A sending packet with segnum 1 and checksum 251499 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 251499
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   360532.3565, Layer 4 to 5 Message = rfE.u H1xbK4{e37~hr:
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: snid YTOJE?:50+&~yts
A sending packet with segnum 0 and checksum 247905 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 247905
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 360542.6438, Layer 4 to 5 Message = snid YTOJE?:50+&~yts
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: -1593835519
Recieved packet data is: ACK
Expected checksum: -1107295327
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: -1593835519
Recieved packet data is: ACK
Expected checksum: -1107295327
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 247905 and data snid YTOJE?:50+&~yts.
A timed out. Sending packet with seqnum 0, and checksum 247905 again
B gettin' a packet with seqnum 0, and checksum 247905
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 247905
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: t#x;HTamy(4AMYfr~-9F
A sending packet with seqnum 1 and checksum 230374 from the queue
A sending packet to B
A: 361436.5802, Layer 5 to 4 Message = wZ=wbE(iLxpS6wZ=\sim bE(
A: 361536.1758, Layer 5 to 4 Message = dmbVx?4) {peY2C7,~sh}
A timed out. Sending packet with seqnum 1, and checksum 230374 again
A timed out. Sending packet with seqnum 1, and checksum 230374 again
```

```
B gettin' a packet with seqnum 59, and checksum 230374
Packet Corrupt!
Recieved checksum: 230374, segnum: 59, acknum: 0
Recieved packet data is: t#x HTamy(4AMYfr~-9F
Expected checksum: 229620
Packet Corrupt!
Recieved checksum: 230374, seqnum: 59, acknum: 0
Recieved packet data is: t#x HTamy(4AMYfr~-9F
Expected checksum: 229620
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 16149
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 16149
A: no valid ACK, got instead with corruption. Resending packet with
checksum 230374 and data t#x; HTamy(4AMYfr~-9F.
A timed out. Sending packet with segnum 1, and checksum 230374 again
B gettin' a packet with segnum 1, and checksum 230374
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 362659.7961, Layer 4 to 5 Message = t#x; HTamy (4AMYfr~-9F
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 164, segnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1439
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 164, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1439
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 230374 and data t #x; HTamy(4AMYfr \sim -9F.
B gettin' a packet with segnum 1, and checksum 230374
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 230374
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: uuSq10m-Ki)Ge%Ca~>]z
A sending packet with segnum 0 and checksum 250216 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 250216
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 362706.0442, Layer 4 to 5 Message = uuSq10m-Ki)Ge%Ca\sim]z
Setting comp segnum from 0 to 1
```

```
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: vHvIxJyKzL{M|N}O~P!Q
A sending packet with seqnum 1 and checksum 253648 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 253648
Packet Corrupt!
Recieved checksum: 253648, segnum: 1, acknum: 0
Recieved packet data is: vHLIxJyKzv{M|N}O~P!Q
Expected checksum: 257470
Packet Corrupt!
Recieved checksum: 253648, seqnum: 1, acknum: 0
Recieved packet data is: vHLIxJyKzv{M|N}O~P!Q
Expected checksum: 257470
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 253648 again
B gettin' a packet with seqnum 1, and checksum 253648
Packet Corrupt!
Recieved checksum: 253648, seqnum: 1, acknum: 0
Recieved packet data is: vHvIxJyQzL{M|N}O~P!K
Expected checksum: 251632
Packet Corrupt!
Recieved checksum: 253648, segnum: 1, acknum: 0
Recieved packet data is: vHvIxJyQzL{M|N}O~P!K
Expected checksum: 251632
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 253648 and data vHvIxJyKzL{M|N}O~P!Q. corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 253648
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 363259.0428, Layer 4 to 5 Message = vHvIxJyKzL{M|N}O~P!Q
Setting comp seqnum from 1 to 0
A: 363439.4\overline{3}82, Layer 5 to 4 Message = y!(.4yAGMSY`flrx~'-3
A timed out. Sending packet with seqnum 1, and checksum 253648 again
A timed out. Sending packet with segnum 1, and checksum 253648 again
B gettin' a packet with segnum 1, and checksum 253648
Packet Corrupt!
Recieved checksum: 253648, segnum: 1, acknum: 0
Recieved packet data is: vHvIxJyK!L{M|N}O~PzQ
Expected checksum: 278568
Packet Corrupt!
Recieved checksum: 253648, seqnum: 1, acknum: 0
Recieved packet data is: vHvIxJyK!L{M|N}O~PzQ
Expected checksum: 278568
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 12936
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
```

```
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 253648
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 12936
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 253648 and data vHvIxJyKzL{M|N}O~P!Q.
B gettin' a packet with seqnum 1, and checksum 253648
Packet Corrupt!
Recieved checksum: 253648, seqnum: 1, acknum: 0
Recieved packet data is: vHvIxJyKzL{M|N}O!P~Q
Expected checksum: 260344
Packet Corrupt!
Recieved checksum: 253648, seqnum: 1, acknum: 0
Recieved packet data is: vHvIxJyKzL{M|N}O!P~Q
Expected checksum: 260344
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 253648
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: wZ=wbE(iLxpS6wZ=~bE(
A sending packet with segnum 0 and checksum 237520 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 237520
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   364297.3304, Layer 4 to 5 Message = wZ=wbE(iLxpS6wZ=\sim bE(
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: dmbVx?4) {peY2C7,~sh]
A sending packet with seqnum 1 and checksum 252999 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 252999
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 364326.0431, Layer 4 to 5 Message = dmbVx?4) {peY2C7,~sh]
Setting comp_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: y!(.4yAGMSY`flrx~'-3
A sending packet with seqnum 0 and checksum 234258 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 234258
Packet Corrupt!
Recieved checksum: 234258, seqnum: 0, acknum: 0
Recieved packet data is: y!(.ryAGMSY`fl4x~'-3
Expected checksum: 221858
Packet Corrupt!
Recieved checksum: 234258, seqnum: 0, acknum: 0
Recieved packet data is: y!(.ryAGMSY`fl4x~'-3
```

```
Expected checksum: 221858
Packet corrupt
Sending bACK a NAK!
A: 364480.4510, Layer 5 to 4 Message = z4Ld{5ze|6Nf}70g~8Ph
A timed out. Sending packet with seqnum 0, and checksum 234258 again
B gettin' a packet with segnum 0, and checksum 234258
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 364862.1245, Layer 4 to 5 Message = y!(.4yAGMSY`flrx~'-3
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 234258 again
B gettin' a packet with seqnum 0, and checksum 234258
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A: 365593.2429, Layer 5 to 4 Message = {fp;e0Y{NwC17a3U~Js>}
A timed out. Sending packet with seqnum 0, and checksum 234258 again
A timed out. Sending packet with seqnum 0, and checksum 234258 again
B gettin' a packet with segnum 0, and checksum 234258
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 234258
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: z4Ld{5ze|6Nf}70g~8Ph
A sending packet with segnum 1 and checksum 260621 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 260621
Packet Corrupt!
Recieved checksum: 260621, segnum: 1, acknum: 0
Recieved packet data is: z4Ld{5z0|6Nf}7eg~8Ph
Expected checksum: 264163
Packet Corrupt!
Recieved checksum: 260621, seqnum: 1, acknum: 0
Recieved packet data is: z4Ld{5z0|6Nf}7eg~8Ph
Expected checksum: 264163
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 260621 and data z4Ld{5ze|6Nf}70g~8Ph. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 260621
Packet Corrupt!
Recieved checksum: 260621, seqnum: 1, acknum: 0
Recieved packet data is: z4Ld85ze|6Nf}70g~{Ph
Expected checksum: 280654
Packet Corrupt!
Recieved checksum: 260621, seqnum: 1, acknum: 0
Recieved packet data is: z4Ld85ze|6Nf}70q~{Ph
Expected checksum: 280654
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 260621 again
B gettin' a packet with segnum 1, and checksum 260621
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
```

```
B sending message up to layer 5 and updating newest recieved data
B: 366910.1945, Layer 4 to 5 Message = z4Ld{5ze|6Nf}70g~8Ph
Setting comp segnum from 1 to 0
A: 367128.5757, Layer 5 to 4 Message = |Y6qN+fC|Z7r0,gD^{8}
A timed out. Sending packet with seqnum 1, and checksum 260621 again
B gettin' a packet with seqnum 1, and checksum 260621
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 260621
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: {fp;e0Y{NwCl7a3U~Js>
A sending packet with seqnum 0 and checksum 249016 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 249016 again
B gettin' a packet with seqnum 0, and checksum 249016
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 367965.3718, Layer 4 to 5 Message = {fp;e0Y{NwC17a3U~Js>
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: |Y6qN+fC|Z7rO,qD~[8s
A sending packet with segnum 1 and checksum 252271 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 252271
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 367972.2331, Layer 4 to 5 Message = |Y6qN+fC|Z7rO, qD\sim[8s]
Setting comp segnum from 1 to 0
A: 367988.7613, Layer 5 to 4 Message = 12I7&raO, xgUD2~m[J
A timed out. Sending packet with seqnum 1, and checksum 252271 again
B gettin' a packet with seqnum 1, and checksum 252271
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 252271
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: }1ZI7&raO},xgUD2~m[J
A sending packet with segnum 0 and checksum 254846 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 254846
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 368496.3396, Layer 4 to 5 Message = }1ZI7&raO},xgUD2~m[J
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
```

```
A sending packet with seqnum 1 and checksum 361546
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 8291402
Packet Corrupt!
Recieved checksum: 8291402, seqnum: 1, acknum: 0
Expected checksum: 341097
Packet Corrupt!
Recieved checksum: 8291402, seqnum: 1, acknum: 0
Expected checksum: 341097
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 171, segnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1086
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1086
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 361546 and data ~~~~~~~~.
B gettin' a packet with seqnum 1, and checksum 361546
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
Setting comp segnum from 1 to 0
A: 369644.5554, Layer 5 to 4 Message = !3EVhy -> Pbs'2J[m \sim 2DU]
A timed out. Sending packet with segnum 1, and checksum 361546 again
B gettin' a packet with segnum 1, and checksum 361546
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 361546
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: !3EVhy->Pbs'2J[m~2DU
A sending packet with segnum 0 and checksum 233592 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 233592 again
B gettin' a packet with seqnum 0, and checksum 233592
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   370197.7384, Layer 4 to 5 Message = !3EVhy->Pbs'2J[m~2DU
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 65536
Recieved packet data is: ACK
Expected checksum: -130141
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 65536
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```
Recieved packet data is: ACK
Expected checksum: -130141
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 233592 and data !3EVhy->Pbs'2J[m~2DU.
B gettin' a packet with seqnum 0, and checksum 233592
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 233592 again
A timed out. Sending packet with segnum 0, and checksum 233592 again
B gettin' a packet with segnum 0, and checksum 233592
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
A: 371562.6519, Layer 5 to 4 Message = \#\text{i.Qt9}] !Eh-Ps8[~Dq,
A timed out. Sending packet with seqnum 0, and checksum 233592 again
B gettin' a packet with seqnum 0, and checksum 233592
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 233592
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ##i.Qt9]!Eh-Ps8[~Dq,
A sending packet with segnum 1 and checksum 230550 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 230550 again
B gettin' a packet with segnum 1, and checksum 230550
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   372246.9257, Layer 4 to 5 Message = ##i.Qt9]!Eh-Ps8[~Dq,
Setting comp segnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 230550 again
B gettin' a packet with segnum 1, and checksum 230550
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A: 373027.9502, Layer 5 to 4 Message = $X$d:oFzQ(]3h>sJ~U,a
A timed out. Sending packet with seqnum 1, and checksum 230550 again
A timed out. Sending packet with seqnum 1, and checksum 230550 again
A timed out. Sending packet with seqnum 1, and checksum 230550 again
B gettin' a packet with segnum 1, and checksum 211094
Packet Corrupt!
Recieved checksum: 211094, seqnum: 1, acknum: 0
Recieved packet data is: ##i.Qt9]!Eh-Ps, [~Dq,
Expected checksum: 190050
Packet Corrupt!
Recieved checksum: 211094, seqnum: 1, acknum: 0
Recieved packet data is: ##i.Qt9]!Eh-Ps, [~Dg,
Expected checksum: 190050
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 230550
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: $X$d:oFzQ(]3h>sJ~U,a
A sending packet with segnum 0 and checksum 241262 from the queue
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A sending packet to B
B gettin' a packet with seqnum 0, and checksum 44654
Packet Corrupt!
Recieved checksum: 44654, seqnum: 0, acknum: 3
Recieved packet data is: $X$d:oFzQ(]3h>sJ~U,a
Expected checksum: 241256
Packet Corrupt!
Recieved checksum: 44654, segnum: 0, acknum: 3
Recieved packet data is: $X$d:oFzQ(]3h>sJ~U,a
Expected checksum: 241256
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 241262 and data $X$d:oFzQ(]3h>sJ~U,a. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 241262
Packet Corrupt!
Recieved checksum: 241262, segnum: 0, acknum: 0
Recieved packet data is: $X$d:oFzQa]3h>sJ~U,(
Expected checksum: 224162
Packet Corrupt!
Recieved checksum: 241262, seqnum: 0, acknum: 0
Recieved packet data is: $X$d:oFzQa]3h>sJ~U,(
Expected checksum: 224162
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 241262 and data $X$d:oFzQ(]3h>sJ~U,a. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 241262
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   374270.9947, Layer 4 to 5 Message = $X$d:oFzQ(]3h>sJ~U,a
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1012
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, segnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1012
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 241262 and data $X$d:oFzQ(]3h>sJ~U,a.
B gettin' a packet with seqnum 0, and checksum 241262
Packet Corrupt!
Recieved checksum: 241262, seqnum: 0, acknum: 0
Recieved packet data is: $X$d:oFzQ(]3h>aJ~U,s
Expected checksum: 244412
Packet Corrupt!
Recieved checksum: 241262, seqnum: 0, acknum: 0
Recieved packet data is: $X$d:oFzQ(]3h>aJ~U,s
Expected checksum: 244412
Packet corrupt
Sending bACK a NAK!
```

```
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 241262
Not corrupt, but bad sequence number, sending next boi
A: 374806.0376, Layer 5 to 4 Message = %kS%$jR:#iQ9!hP8~g07
A sending packet with segnum 1 and checksum 224122
A sending packet to B
B gettin' a packet with segnum 1, and checksum 224122
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 374811.9834, Layer 4 to 5 Message = kS%jR:\#iQ9!hP8~gO7
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: -19768
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: -19768
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 224122 and data %kS%$jR:#iQ9!hP8~gO7.
B gettin' a packet with seqnum 7012353, and checksum 224122
Packet Corrupt!
Recieved checksum: 224122, seqnum: 7012353, acknum: 0
Recieved packet data is: %
Expected checksum: 21260750
Packet Corrupt!
Recieved checksum: 224122, seqnum: 7012353, acknum: 0
Recieved packet data is: %
Expected checksum: 21260750
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 224122 again
B gettin' a packet with seqnum 1, and checksum 224122
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 224122 again
B gettin' a packet with segnum 553648129, and checksum 224122
Packet Corrupt!
Recieved checksum: 224122, seqnum: 553648129, acknum: 0
Recieved packet data is: %kS%$jR:#iQ9
Expected checksum: 1661162929
Packet Corrupt!
Recieved checksum: 224122, seqnum: 553648129, acknum: 0
Recieved packet data is: %kS%$jR:#iQ9
Expected checksum: 1661162929
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 224122
Not corrupt, but bad sequence number, sending next boi
```

```
A: 376175.5414, Layer 5 to 4 Message = &\wq&e XRLF?93-'~xrl
A sending packet with seqnum 0 and checksum 249383
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 249383
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
Setting comp segnum from 0 to 1
A: 376426.9140, Layer 5 to 4 Message = 'f=IT'kv$x:FQ]3s~,7C
A timed out. Sending packet with seqnum 0, and checksum 249383 again
B gettin' a packet with seqnum 0, and checksum 249383
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 14964
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 249383
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 14964
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 249383 and data & \ wq&e XRLF?93-'~xrl.
B gettin' a packet with seqnum \overline{0}, and checksum 249383
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 249383
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 'f=IT'kv$x:FQ]3s~,7C
A sending packet with seqnum 1 and checksum 220560 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 220560
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
\ensuremath{\mathtt{B}} sending message up to layer 5 and updating newest recieved data
B: 376753.4527, Layer 4 to 5 Message = 'f=IT'kv$x:FQ]3s~,7C
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 377599.3563, Layer 5 to 4 Message = (Eb\sim=Z(6SpxLi(Eb\sim=Zw))
A sending packet with segnum 0 and checksum 259171
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 259171
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 377610.5515, Layer 4 to 5 Message = (Eb\sim=Z(6SpxLi(Eb\sim=Zw))
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
```

```
Packet Corrupt!
Recieved checksum: 929, seqnum: 65536, acknum: 0
Recieved packet data is: ACK
Expected checksum: 197539
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 65536. last transmitted seqnum: 0
Last sent packet Checksum: 259171
Packet Corrupt!
Recieved checksum: 929, seqnum: 65536, acknum: 0
Recieved packet data is: ACK
Expected checksum: 197539
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 259171 and data (Eb~=Z(6SpxLi(Eb~=Zw.
B gettin' a packet with seqnum 0, and checksum 259171
Packet Corrupt!
Recieved checksum: 259171, seqnum: 0, acknum: 8257536
Recieved packet data is: (Eb~=Z(6SpxLi(Eb
Expected checksum: -16292315
Packet Corrupt!
Recieved checksum: 259171, seqnum: 0, acknum: 8257536
Recieved packet data is: (Eb~=Z(6SpxLi(Eb
Expected checksum: -16292315
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 2964
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 259171
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 2964
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 259171 and data (Eb~=Z(6SpxLi(Eb~=Zw.
B gettin' a packet with segnum 0, and checksum 259171
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 259171
Not corrupt, but bad sequence number, sending next boi
A: 378683.5238, Layer 5 to 4 Message = dW(V'U\&) %S$R2Q!P~O}N
A sending packet with seqnum 1 and checksum 228658
A sending packet to B
B gettin' a packet with seqnum 13057, and checksum 228658
Packet Corrupt!
Recieved checksum: 228658, seqnum: 13057, acknum: 0
Recieved packet data is: bW(V'U&)%S$R
Expected checksum: 259374
Packet Corrupt!
Recieved checksum: 228658, segnum: 13057, acknum: 0
Recieved packet data is: bW(V'U&)%S$R
```

```
Expected checksum: 259374
Packet corrupt
Sending bACK a NAK!
A: 378987.7246, Layer 5 to 4 Message = *jL.nP2r*6vX:z]>~aC%
A timed out. Sending packet with seqnum 1, and checksum 228658 again
B gettin' a packet with seqnum 1, and checksum 217650
Packet Corrupt!
Recieved checksum: 217650, segnum: 1, acknum: 0
Recieved packet data is: bW(V'U&)%S$}3Q!P~O}N
Expected checksum: 235017
Packet Corrupt!
Recieved checksum: 217650, seqnum: 1, acknum: 0
Recieved packet data is: bW(V'U&)%S$}3Q!P~O}N
Expected checksum: 235017
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, segnum: 11206657, acknum: 0
Recieved packet data is: NAK
Expected checksum: 33620907
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 11206657. last transmitted segnum: 1
Last sent packet Checksum: 228658
Packet Corrupt!
Recieved checksum: 768, seqnum: 11206657, acknum: 0
Recieved packet data is: NAK
Expected checksum: 33620907
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 228658 and data dW(V'U&)%S$R2Q!P~O}N.
A timed out. Sending packet with segnum 1, and checksum 228658 again
B gettin' a packet with segnum 1, and checksum 228658
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 379707.4752, Layer 4 to 5 Message = dW(V'U\&)%S$R2Q!P~O}N
Setting comp_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: *jL.nP2r*6vX:z]>~aC%
A sending packet with segnum 0 and checksum 230277 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 230277
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   379758.3926, Layer 4 to 5 Message = *jL.nP2r*6vX:z]>~aC%
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 380215.2483, Layer 5 to 4 Message = +|pdWK>2&+k RF9-~rfY
A sending packet with seqnum 1 and checksum 245886
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 245886
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
```

B sending message up to layer 5 and updating newest recieved data

```
B: 380222.4357, Layer 4 to 5 Message = +|pdWK>2&+k RF9-~rfY
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
   381165.9756, Layer 5 to 4 Message = ,16;AFKPUZ,ejoty~&+0
A sending packet with seqnum 0 and checksum 230481
A sending packet to B
B gettin' a packet with segnum 0, and checksum 33873
Packet Corrupt!
Recieved checksum: 33873, seqnum: 0, acknum: 3
Recieved packet data is: ,16;AFKPUZ,ejoty~&+0
Expected checksum: 230475
Packet Corrupt!
Recieved checksum: 33873, seqnum: 0, acknum: 3
Recieved packet data is: ,16;AFKPUZ,ejoty~&+0
Expected checksum: 230475
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 230481 and data ,16;AFKPUZ,ejoty~&+0. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 230481
Packet Corrupt!
Recieved checksum: 230481, seqnum: 0, acknum: 0
Recieved packet data is: ,16;AFKPUZ,eojty~&+0
Expected checksum: 230346
Packet Corrupt!
Recieved checksum: 230481, seqnum: 0, acknum: 0
Recieved packet data is: ,16;AFKPUZ,eojty~&+0
Expected checksum: 230346
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1179
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 168, segnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1179
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 230481 and data ,16;AFKPUZ,ejoty~&+0.
A timed out. Sending packet with seqnum 0, and checksum 230481 again
B gettin' a packet with seqnum 0, and checksum 230481
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   381680.9320, Layer 4 to 5 Message = ,16;AFKPUZ,ejoty~&+0
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
   382858.0445, Layer 5 to 4 Message = -DZq*AWn'=T-$:Qh~7Ne
A sending packet with segnum 1 and checksum 228550
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 228550
```

```
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 382887.0014, Layer 4 to 5 Message = -DZq*AWn'=T-$:Qh~7Ne
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 383773.7993, Layer 5 to 4 Message = .V~Iq;d.V~Iq.d.V~Iq;
A sending packet with segnum 0 and checksum 244278
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 244278
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
    383800.9234, Layer 4 to 5 Message = .V\sim Iq; d.V\sim Iq. d.V\sim Iq;
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
   384337.3029, Layer 5 to 4 Message = xiE\sim Z6pL(b=wSxiE\sim Z6p
A sending packet with segnum 1 and checksum 263910
A sending packet to B
B gettin' a packet with segnum 1, and checksum 263910
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 384343.8268, Layer 4 to 5 Message = xiE~Z6pL(b=wSxiE~Z6p
Setting comp\_seqnum\ from\ 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, segnum: 1, acknum: 1
Recieved packet data is:
Expected checksum: 6132
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is:
Expected checksum: 6132
A: no valid ACK, got instead with corruption. Resending packet with
checksum 263910 and data xiE~Z6pL(b=wSxiE~Z6p.
A timed out. Sending packet with segnum 1, and checksum 263910 again
A: 385262.9818, Layer 5 to 4 Message = dfiVD1|jWE2}2X03~1YG
A timed out. Sending packet with seqnum 1, and checksum 263910 again
B gettin' a packet with seqnum 61, and checksum 263910
Packet Corrupt!
Recieved checksum: 263910, seqnum: 61, acknum: 0
Recieved packet data is: xiE~Z6pL(b wSxiE~Z6p
Expected checksum: 256830
Packet Corrupt!
Recieved checksum: 263910, seqnum: 61, acknum: 0
Recieved packet data is: xiE~Z6pL(b wSxiE~Z6p
Expected checksum: 256830
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 263910
```

```
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dfiVD1|jWE2}2X03~1YG
A sending packet with segnum 0 and checksum 238562 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 238562
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 385391.7532, Layer 4 to 5 Message = dfiVD1|jWE2}2X03~1YG
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: A
Expected checksum: 8768
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: A
Expected checksum: 8768
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 238562 and data dfiVD1|jWE2}2X03~1YG.
A timed out. Sending packet with seqnum 0, and checksum 238562 again
A timed out. Sending packet with segnum 0, and checksum 238562 again
B gettin' a packet with seqnum 0, and checksum 238562
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 238562
Not corrupt, but bad sequence number, sending next boi
A: 386657.6063, Layer 5 to 4 Message = 10x.-,+*) ('&\$\$\$1\^\| \{
A sending packet with segnum 1 and checksum 231605
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 206773
Packet Corrupt!
Recieved checksum: 206773, seqnum: 1, acknum: 0
Recieved packet data is: 10x.-,+*) (^{\&}$^{\#}1~}|{
Expected checksum: 212366
Packet Corrupt!
Recieved checksum: 206773, seqnum: 1, acknum: 0
Recieved packet data is: 10x.-,+*) (^{\&}$^{\#}1~}|{
Expected checksum: 212366
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 833, seqnum: 1, acknum: 0
Recieved packet data is: N«K
Expected checksum: 339
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 833, seqnum: 1, acknum: 0
Recieved packet data is: N«K
Expected checksum: 339
A: no valid ACK, got N«K instead with corruption. Resending packet with
checksum 231605 and data 10x.-,+*)('&%$#1~}|{.}
B gettin' a packet with seqnum 1, and checksum 231605
```

```
Packet Corrupt!
Recieved checksum: 231605, seqnum: 1, acknum: 3211264
Recieved packet data is:
Expected checksum: -6190972
Packet Corrupt!
Recieved checksum: 231605, seqnum: 1, acknum: 3211264
Recieved packet data is:
Expected checksum: -6190972
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 231605 and data 10x.-,+*) ('&%$#1~}|{. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 231605
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   386702.0578, Layer 4 to 5 Message = 10x.-,+*) ('&%$\$1~}|{
Setting comp segnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 231605 again
B gettin' a packet with segnum 1, and checksum 231605
Packet Corrupt!
Recieved checksum: 231605, segnum: 1, acknum: 0
Recieved packet data is: 10x.-,+*\{('&%$$#1~})
Expected checksum: 205447
Packet Corrupt!
Recieved checksum: 231605, seqnum: 1, acknum: 0
Recieved packet data is: 10x.-,+*\{('&%$#1~}|)
Expected checksum: 205447
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 19461
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 231605
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 19461
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 231605 and data 10x.-,+*)('&%$#1~}|{.}
B gettin' a packet with seqnum 1, and checksum 231605
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 231605
Not corrupt, but bad sequence number, sending next boi
A: 387754.0974, Layer 5 to 4 Message = 2CSdt'7HXiy,<M^n21BR
A sending packet with segnum 0 and checksum 214294
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 214294
```

```
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data B: 387783.1135, Layer 4 to 5 Message = 2CSdt'7HXiy,<M^n21BR
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 388195.9271, Layer 5 to 4 Message = 3Uw;^!Df*Ln2Tv:]~3e)
A sending packet with segnum 1 and checksum 227223
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 227223
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   388206.5748, Layer 4 to 5 Message = 3Uw; \dagger'! Df*Ln2Tv: ] \dagger 3e)
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 227223 again
B gettin' a packet with segnum 1, and checksum 227223
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 227223
Not corrupt, but bad sequence number, sending next boi
A: 389827.6868, Layer 5 to 4 Message = 4h=qGzP&Yxc8lBuK~T4^
A sending packet with segnum 0 and checksum 251234
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 251234
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 389832.1870, Layer 4 to 5 Message = 4h=qGzP&Yxc8lBuK~T4^
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 391580.8389, Layer 5 to 4 Message = 5zbI0u]D+pW>&kR9~fM5
A sending packet with segnum 1 and checksum 229871
A sending packet to B
    391845.3862, Layer 5 to 4 Message = 6x(~wpibZSLE=6x(~wpi
A:
    391885.1185, Layer 5 to 4 Message = d7LVaku!, 6AK2`jt~+5?
A timed out. Sending packet with segnum 1, and checksum 229871 again
B gettin' a packet with seqnum 1, and checksum 229871
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
    392097.9758, Layer 4 to 5 Message = 5zbI0u]D+pW>&kR9~fM5
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: 6x(~wpibZSLE=6x(~wpi
A sending packet with segnum 0 and checksum 271514 from the queue
A sending packet to B
A timed out. Sending packet with segnum 0, and checksum 271514 again
A timed out. Sending packet with seqnum 0, and checksum 271514 again
B gettin' a packet with segnum 0, and checksum 271514
```

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Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data B: 393123.3076, Layer 4 to 5 Message = 6x(\sim pibZSLE=6x(\sim pibZSLE=6x))
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: d7LVaku!, 6AK2`jt~+5?
A sending packet with segnum 1 and checksum 219548 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 219548
Packet Corrupt!
Recieved checksum: 219548, seqnum: 1, acknum: 0
Recieved packet data is: b7LVaku!,6AK35jt~+`?
Expected checksum: 226810
Packet Corrupt!
Recieved checksum: 219548, seqnum: 1, acknum: 0
Recieved packet data is: b7LVaku!,6AK35jt~+`?
Expected checksum: 226810
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 219548 and data d7LVaku!, 6AK2`jt~+5?. corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 219548
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   393162.7392, Layer 4 to 5 Message = d7LVaku!,6AK2`jt~+5?
Setting comp segnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 219548 again
B gettin' a packet with segnum 1, and checksum 219548
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A: 393665.6146, Layer 5 to 4 Message = 8T8.Jf$?[w5Qm+Gc~<Xt
A timed out. Sending packet with seqnum 1, and checksum 219548 again
B gettin' a packet with seqnum 1, and checksum 219548
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 219548 again
B gettin' a packet with seqnum 156, and checksum 219393
Packet Corrupt!
Recieved checksum: 219393, seqnum: 156, acknum: 0
Recieved packet data is: b7LVaku!,6AK3`jt~+5?
Expected checksum: 220180
Packet Corrupt!
Recieved checksum: 219393, segnum: 156, acknum: 0
Recieved packet data is: b7LVaku!, 6AK3`jt~+5?
Expected checksum: 220180
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, segnum: 0, acknum: 11010048
Recieved packet data is: NAK
Expected checksum: -22019160
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
```

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packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 219548
Packet Corrupt!
Recieved checksum: 768, segnum: 0, acknum: 11010048
Recieved packet data is: NAK
Expected checksum: -22019160
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 219548 and data d7LVaku!, 6AK2`jt~+5?.
B gettin' a packet with seqnum 1, and checksum 219548
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A: 394783.1715, Layer 5 to 4 Message = 9f693a0^-Z*W'T3Q~N\{K\}
A timed out. Sending packet with seqnum 1, and checksum 219548 again
A: 395194.1479, Layer 5 to 4 Message = :yZ;:[<{]=|^>} ?~`A!
B gettin' a packet with seqnum 1, and checksum 219548
Packet Corrupt!
Recieved checksum: 219548, seqnum: 1, acknum: 0
Recieved packet data is: b7LVaku!56AK3`jt~+,?
Expected checksum: 217195
Packet Corrupt!
Recieved checksum: 219548, seqnum: 1, acknum: 0
Recieved packet data is: b7LVaku!56AK3`jt~+,?
Expected checksum: 217195
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 219548 again
A timed out. Sending packet with seqnum 1, and checksum 219548 again
B gettin' a packet with seqnum 1, and checksum 219548
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 219548
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 8T8.Jf$?[w5Qm+Gc~<Xt
A sending packet with seqnum 0 and checksum 252411 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 252411
Packet Corrupt!
Recieved checksum: 252411, segnum: 0, acknum: 0
Recieved packet data is: 8G8.Jf$?[w5Qm+Tc~<Xt
Expected checksum: 255284
Packet Corrupt!
Recieved checksum: 252411, seqnum: 0, acknum: 0
Recieved packet data is: 8G8.Jf$?[w5Qm+Tc~<Xt
Expected checksum: 255284
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 252411 and data 8T8.Jf$?[w5Qm+Gc~<Xt. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 252411
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 396264.8771, Layer 4 to 5 Message = 8T8.Jf?[w5Qm+Gc~<Xt
Setting comp\_seqnum\ from\ 0 to 1
```

```
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, segnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1292
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, segnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1292
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 252411 and data 8T8.Jf$?[w5Qm+Gc~<Xt.
B gettin' a packet with seqnum 0, and checksum 252411
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 252411
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 9f693a0^-Z*W'T3Q~N{K
A sending packet with seqnum 1 and checksum 236534 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 39926
Packet Corrupt!
Recieved checksum: 39926, seqnum: 1, acknum: 50331648
Recieved packet data is: 9f693a0^-Z*W'T3Q~N{K
Expected checksum: -100426762
Packet Corrupt!
Recieved checksum: 39926, seqnum: 1, acknum: 50331648
Recieved packet data is: 9f693a0^-Z*W'T3Q~N{K
Expected checksum: -100426762
Packet corrupt
Sending bACK a NAK!
   396408.9136, Layer 5 to 4 Message = ;.~qd;I;.~qdVI;.~qdV
A timed out. Sending packet with segnum 1, and checksum 236534 again
B gettin' a packet with seqnum 1, and checksum 236534
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   396822.2166, Layer 4 to 5 Message = 9f693a0^-Z*W'T3Q~N{K
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: :yZ;:[<{]=|^>}_?^A!
A sending packet with seqnum 0 and checksum 236594 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 236594
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   396847.2221, Layer 4 to 5 Message = :yZ;:[<{]=|^>} ?~`A!
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 236594 again
B gettin' a packet with segnum 0, and checksum 236594
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
```

Recieved an ACK/NAK...Checking response...

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Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 75
Recieved packet data is: NA
Expected checksum: 114
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 236594
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 75
Recieved packet data is: NA
Expected checksum: 114
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 236594 and data :yZ;:[<{]=|^>} ?^A!.
B gettin' a packet with seqnum 0, and checksum 236594
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 236594
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ;.~qd;I;.~qdVI;.~qdV
A sending packet with segnum 1 and checksum 256906 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 256906
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 397413.8494, Layer 4 to 5 Message = ;.~qd;I;.~qdVI;.~qdV
Setting comp segnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 256906 again
A: 398366.8277, Layer 5 to 4 Message = \langle AEIMQ \langle Y^bfjnrvz \sim 8 \rangle
A timed out. Sending packet with seqnum 1, and checksum 256906 again
A timed out. Sending packet with seqnum 1, and checksum 256906 again
A: 399363.5664, Layer 5 to 4 Message = Si \sim 6Lb = xEZp (Si \sim 6Lb
A timed out. Sending packet with seqnum 1, and checksum 256906 again
B gettin' a packet with seqnum 8257537, and checksum 256906
Packet Corrupt!
Recieved checksum: 256906, seqnum: 8257537, acknum: 0
Recieved packet data is: ;.~qd;I;.~qdVI;.
Expected checksum: 24993100
Packet Corrupt!
Recieved checksum: 256906, segnum: 8257537, acknum: 0
Recieved packet data is: ;.~qd;I;.~qdVI;.
Expected checksum: 24993100
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 256906
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: <AEIMQ<Y^bfjnrvz~%) -
A sending packet with segnum 0 and checksum 240448 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 240448
Expected packet compared and confirmed
```

```
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 399415.6065, Layer 4 to 5 Message = <AEIMQ<Y^bfjnrvz~%)-
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 3929
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 3929
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 240448 and data <AEIMQ<Y^bfjnrvz~%)-.
A timed out. Sending packet with seqnum 0, and checksum 240448 again
B gettin' a packet with seqnum 0, and checksum 240448
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 240448
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: =Si~6Lb=xEZp(=Si~6Lb
A sending packet with segnum 1 and checksum 244527 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 244527
Packet Corrupt!
Recieved checksum: 244527, segnum: 1, acknum: 0
Recieved packet data is: =~i~6Lb=xEZp(=SiS6Lb
Expected checksum: 232272
Packet Corrupt!
Recieved checksum: 244527, seqnum: 1, acknum: 0
Recieved packet data is: =~i~6Lb=xEZp(=SiS6Lb
Expected checksum: 232272
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 244527 and data =Si~6Lb=xEZp(=Si~6Lb. corrupted from
A to B, resending
A timed out. Sending packet with segnum 1, and checksum 244527 again
A: 400666.7043, Layer 5 to 4 Message = dfxVGn7>(Ov2g0W~Ho8
A: 400707.2305, Layer 5 to 4 Message = ?xS.gBzU0?D|W2kF\sim Y4m
A timed out. Sending packet with seqnum 1, and checksum 244527 again
A timed out. Sending packet with segnum 1, and checksum 244527 again
A: 401831.0600, Layer 5 to 4 Message = A-wdP<)s`LA%o[H4~kWD
A timed out. Sending packet with seqnum 1, and checksum 244527 again
A timed out. Sending packet with seqnum 1, and checksum 244527 again
B gettin' a packet with seqnum 1, and checksum 244527
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 402470.6371, Layer 4 to 5 Message = Si \sim 6Lb = xEZp (Si \sim 6Lb
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
```

```
Sending next data from the queue!
Data being dequeued: dfxV}Gn7>(Ov2g0W~Ho8
A sending packet with segnum 0 and checksum 236974 from the queue
A sending packet to B
A: 402689.7721, Layer 5 to 4 Message = B?=; 97531x-B) '%#~|zx
A timed out. Sending packet with seqnum 0, and checksum 236974 again
B gettin' a packet with seqnum 0, and checksum 236974
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 402980.9713, Layer 4 to 5 Message = dfxV}Gn7>(Ov2g0W~Ho8
Setting comp_seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 236974 again
B gettin' a packet with segnum 0, and checksum 236974
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 236974 again
B gettin' a packet with seqnum 0, and checksum 236974
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 236974
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ?xS.gBzU0?D|W2kF~Y4m
A sending packet with segnum 1 and checksum 248713 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 248713
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 404014.5057, Layer 4 to 5 Message = ?xS.gBzU0?D|W2kF~Y4m
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: A-wdP<)s`LA%o[H4~kWD
A sending packet with seqnum 0 and checksum 240733 from the queue
A sending packet to B
A: 404037.6343, Layer 5 to 4 Message = Cfbq#2BQap!1CP3o~0?0
B gettin' a packet with segnum 0, and checksum 240733
Packet Corrupt!
Recieved checksum: 240733, seqnum: 0, acknum: 0
Recieved packet data is: A-w) P<ds`LA%o[H4~kWD
Expected checksum: 242680
Packet Corrupt!
Recieved checksum: 240733, seqnum: 0, acknum: 0
Recieved packet data is: A-w) P<ds LA%o[H4~kWD
Expected checksum: 242680
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 240733 and data A-wdP<)s`LA%o[H4~kWD. corrupted from
A to B, resending
A: 404377.9179, Layer 5 to 4 Message = De(Ij-No2St7XD<^~Bc&
A timed out. Sending packet with seqnum 0, and checksum 240733 again
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B gettin' a packet with segnum 0, and checksum 240733

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Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data B: 404572.2760, Layer 4 to 5 Message = A-wdP<)s`LA%o[H4~kWD
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 240733 again
A timed out. Sending packet with seqnum 0, and checksum 240733 again
B gettin' a packet with segnum 0, and checksum 240733
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 240733
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: B?=;97531x-B)'%#~|zx
A sending packet with seqnum 1 and checksum 242411 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 242411
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 405577.3031, Layer 4 to 5 Message = B?=; 97531x-B) '%#~|zx
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: -22620
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, segnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: -22620
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 242411 and data B?=;97531x-B)'%\#~|zx.
B gettin' a packet with seqnum 1, and checksum 242411
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 1258292136, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 261
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 242411
Packet Corrupt!
Recieved checksum: 1258292136, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 261
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 242411 and data B?=;97531x-B)'%\#\sim|zx.
B gettin' a packet with seqnum 1, and checksum 242411
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
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```
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 242411
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Cfbq#2BQap!1CP3o~0?0
A sending packet with seqnum 0 and checksum 217490 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 217490
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 405683.1339, Layer 4 to 5 Message = Cfbq#2BQap!1CP3o~0?0
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 161, segnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1604
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 161, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1604
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 217490 and data Cfbq#2BQap!1CP3o~0?0.
B gettin' a packet with seqnum 0, and checksum 217490
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1161
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1161
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 217490 and data Cfbq#2BQap!1CP3o~0?0.
B gettin' a packet with segnum 0, and checksum 217490
Packet Corrupt!
Recieved checksum: 217490, seqnum: 0, acknum: 0
Recieved packet data is: Cfbq#2BQa!p1CP3o~0?0
Expected checksum: 219149
Packet Corrupt!
Recieved checksum: 217490, seqnum: 0, acknum: 0
Recieved packet data is: Cfbq#2BQa!p1CP3o~0?0
Expected checksum: 219149
Packet corrupt
Sending bACK a NAK!
A: 406000.0769, Layer 5 to 4 Message = EwL~S(Zxb6i=pEEL~S(Z
A timed out. Sending packet with segnum 0, and checksum 217490 again
A timed out. Sending packet with segnum 0, and checksum 217490 again
B gettin' a packet with seqnum 0, and checksum 217490
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
```

```
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 217490
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: De(Ij-No2St7XD<^~Bc&
A sending packet with seqnum 1 and checksum 225929 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 225929 again
B gettin' a packet with segnum 1, and checksum 225929
Packet Corrupt!
Recieved checksum: 225929, segnum: 1, acknum: 0
Recieved packet data is: Ne(Ij-Do2St7XD<^~Bc&
Expected checksum: 225449
Packet Corrupt!
Recieved checksum: 225929, seqnum: 1, acknum: 0
Recieved packet data is: Ne(Ij-Do2St7XD<^~Bc&
Expected checksum: 225449
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 225929 and data De(Ij-No2St7XD<^~Bc&. corrupted from
A to B, resending
A timed out. Sending packet with seqnum 1, and checksum 225929 again
B gettin' a packet with segnum 1, and checksum 225929
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 407780.2055, Layer 4 to 5 Message = De(Ij-No2St7XD<^~Bc&
Setting comp\_seqnum from 1 to 0
A: 407784.4723, Layer 5 to 4 Message = d,pV<\#gM3w^D2nTF\sim eK1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: EwL~S(Zxb6i=pEEL~S(Z
A sending packet with segnum 0 and checksum 234779 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 234779
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 407818.6354, Layer 4 to 5 Message = EwL~S(Zxb6i=pEEL~S(Z
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, segnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: -17691
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: -17691
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 234779 and data EwL~S(Zxb6i=pEEL~S(Z.
B gettin' a packet with seqnum 0, and checksum 234779
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 0
```

```
Recieved packet data is: NAK
Expected checksum: -26601
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 234779
Packet Corrupt!
Recieved checksum: 768, segnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: -26601
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 234779 and data EwL~S(Zxb6i=pEEL~S(Z.
B gettin' a packet with seqnum 0, and checksum 234779
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 234779
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d,pV<#gM3w^D2nTF~eK1
A sending packet with seqnum 1 and checksum 235161 from the queue
A sending packet to B
A timed out. Sending packet with segnum 1, and checksum 235161 again
B gettin' a packet with segnum 1, and checksum 235161
Packet Corrupt!
Recieved checksum: 235161, seqnum: 1, acknum: 0
Recieved packet data is: V,pb<#gM3w^D3nTF~eK1
Expected checksum: 235508
Packet Corrupt!
Recieved checksum: 235161, segnum: 1, acknum: 0
Recieved packet data is: V,pb<#gM3w^D3nTF~eK1
Expected checksum: 235508
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 235161 again
B gettin' a packet with seqnum 1, and checksum 235161
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 408868.9002, Layer 4 to 5 Message = d,pV<#qM3w^D2nTF~eK1
Setting comp segnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 235161 again
B gettin' a packet with seqnum 1, and checksum 235161
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 235161
Not corrupt, but bad sequence number, sending next boi
   409443.8298, Layer 5 to 4 Message = G>6.&{skcZRJB91)Gvnf
A sending packet with seqnum 0 and checksum 240030
A sending packet to B
B gettin' a packet with segnum 0, and checksum 240030
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
```

```
B: 409449.3161, Layer 4 to 5 Message = G>6.&{skcZRJB91}Gvnf
Setting comp seqnum from 0 to 1
A timed out. Sending packet with segnum 0, and checksum 240030 again
A: 410056.0464, Layer 5 to 4 Message = HQZdmv!+4=GPYclu~H3<
A: 410141.2030, Layer 5 to 4 Message = Id~; Vq.Id~; Vq.Id~; Iq
A timed out. Sending packet with seqnum 0, and checksum 240030 again
B gettin' a packet with seqnum 0, and checksum 240030
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 240030 again
B gettin' a packet with segnum 0, and checksum 240030
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 240030
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: HQZdmv!+4=GPYclu~H3<
A sending packet with segnum 1 and checksum 235347 from the queue
A sending packet to B
A: 411367.9292, Layer 5 to 4 Message = JvEq?1:g5b0]+W&R\sim MyJ
A timed out. Sending packet with segnum 1, and checksum 235347 again
B gettin' a packet with segnum 1, and checksum 235347
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 411476.3188, Layer 4 to 5 Message = HQZdmv!+4=GPYclu\sim H3<
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Id~; Vq.Id~; Vq.Id~; Iq
A sending packet with segnum 0 and checksum 253062 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 253062 again
A timed out. Sending packet with seqnum 0, and checksum 253062 again
B gettin' a packet with seqnum 0, and checksum 253062
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 412512.4149, Layer 4 to 5 Message = Id~; Vq.Id~; Vq.Id~; Iq
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 6129
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 6129
A: no valid ACK, got instead with corruption. Resending packet with
checksum 253062 and data Id~; Vq.Id~; Vq.Id~; Iq.
B gettin' a packet with segnum 0, and checksum 253062
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
```

```
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 253062
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: JvEq?l:g5b0]+W&R~MyJ
A sending packet with seqnum 1 and checksum 239595 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 239595 again
B gettin' a packet with segnum 1, and checksum 239595
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 413053.2696, Layer 4 to 5 Message = JvEq?1:g5b0]+W&R~MyJ
Setting comp seqnum from 1 to 0
A: 413231.3894, Layer 5 to 4 Message = K+iI)gG'eE%cC#aA~ >|
A timed out. Sending packet with seqnum 1, and checksum 239595 again
A timed out. Sending packet with seqnum 1, and checksum 239595 again
B gettin' a packet with segnum 0, and checksum 239595
Packet Corrupt!
Recieved checksum: 239595, seqnum: 0, acknum: 256
Recieved packet data is: JvEq?l:g5b0]+W&R~MyJ
Expected checksum: 239080
Packet Corrupt!
Recieved checksum: 239595, segnum: 0, acknum: 256
Recieved packet data is: JvEq?l:g5b0]+W&R~MyJ
Expected checksum: 239080
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 239595
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: K+iI)gG'eE%cC#aA~ >|
A sending packet with segnum 0 and checksum 242629 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 242629
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 414084.7142, Layer 4 to 5 Message = K+iI)gG'eE%cC#aA~ >|
Setting comp segnum from 0 to 1
A: 414394.7449, Layer 5 to 4 Message = LLx~pbSE6(wiZL3x~pbS
A timed out. Sending packet with seqnum 0, and checksum 242629 again
B gettin' a packet with seqnum 0, and checksum 242629
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 242629
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: LLx~pbSE6(wiZL3x~pbS
A sending packet with segnum 1 and checksum 269687 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 269687
Expected packet compared and confirmed
```

```
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 414576.5053, Layer 4 to 5 Message = LLx~pbSE6(wiZL3x~pbS
Setting comp segnum from 1 to 0
A: 414859.1408, Layer 5 to 4 Message = dPMVY] cfilo2ux{~$'*
A timed out. Sending packet with seqnum 1, and checksum 269687 again
A timed out. Sending packet with seqnum 1, and checksum 269687 again
B gettin' a packet with segnum 1, and checksum 269687
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 269687 again
B gettin' a packet with segnum 1, and checksum 269687
Packet Corrupt!
Recieved checksum: 269687, segnum: 1, acknum: 4980736
Recieved packet data is:
Expected checksum: -9691861
Packet Corrupt!
Recieved checksum: 269687, seqnum: 1, acknum: 4980736
Recieved packet data is:
Expected checksum: -9691861
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 168, segnum: 50331648, acknum: 0
Recieved packet data is: NAK
Expected checksum: 150995880
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 50331648. last transmitted seqnum: 1
Last sent packet Checksum: 269687
Packet Corrupt!
Recieved checksum: 168, segnum: 50331648, acknum: 0
Recieved packet data is: NAK
Expected checksum: 150995880
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 269687 and data LLx~pbSE6(wiZL3x~pbS.
B gettin' a packet with seqnum 1, and checksum 269687
Packet Corrupt!
Recieved checksum: 269687, seqnum: 1, acknum: 0
Recieved packet data is: ELx~pbSL6(wiZL3x~pbS
Expected checksum: 270128
Packet Corrupt!
Recieved checksum: 269687, seqnum: 1, acknum: 0
Recieved packet data is: ELx~pbSL6(wiZL3x~pbS
Expected checksum: 270128
Packet corrupt
Sending bACK a NAK!
    416180.9831, Layer 5 to 4 Message = NcwNCWl#7Lau, AUj\sim5J
A timed out. Sending packet with segnum 1, and checksum 269687 again
B gettin' a packet with seqnum 1, and checksum 269687
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 269687 again
A timed out. Sending packet with seqnum 1, and checksum 269687 again
A: 417699.6902, Layer 5 to 4 Message = Ou=dORxAgxU{Dj2X\sim Gm5}
A timed out. Sending packet with segnum 1, and checksum 269687 again
B gettin' a packet with segnum 98, and checksum 269687
Packet Corrupt!
Recieved checksum: 269687, segnum: 98, acknum: 0
```

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Recieved packet data is: LLx~p SE6(wiZL3x~pbS
Expected checksum: 266486
Packet Corrupt!
Recieved checksum: 269687, seqnum: 98, acknum: 0
Recieved packet data is: LLx~p SE6(wiZL3x~pbS
Expected checksum: 266486
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 269687
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dPMVY] `cfilo2ux{~$'*
A sending packet with seqnum 0 and checksum 235666 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 235666 again
B gettin' a packet with seqnum 0, and checksum 235666
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 418625.2375, Layer 4 to 5 Message = dPMVY] cfilo2ux{~$'*
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: NcwNCWl#7Lau, AUj~5J
A sending packet with segnum 1 and checksum 240435 from the queue
A sending packet to B
A: 418713.1296, Layer 5 to 4 Message = P*b;sP' 8pJ$[5mG~X2]
A timed out. Sending packet with segnum 1, and checksum 240435 again
A: 419147.7243, Layer 5 to 4 Message = Q<(q]HQ|hS>*s J5~jUA
A timed out. Sending packet with segnum 1, and checksum 240435 again
B gettin' a packet with segnum 1, and checksum 240462
Packet Corrupt!
Recieved checksum: 240462, seqnum: 1, acknum: 0
Recieved packet data is: 3cwNCWl#7Lau,AUj~5J_
Expected checksum: 240408
Packet Corrupt!
Recieved checksum: 240462, seqnum: 1, acknum: 0
Recieved packet data is: 3cwNCWl#7Lau,AUj~5J
Expected checksum: 240408
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 240435 and data NcwNCWl#7Lau,AUj~5J . corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 240435
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   419670.7312, Layer 4 to 5 Message = NcwNCWl#7Lau, AUj~5J
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: Ou=dORxAgxU{Dj2X~Gm5
A sending packet with segnum 0 and checksum 251939 from the queue
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```
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 251939
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 419685.0985, Layer 4 to 5 Message = Ou=dORxAgxU{Dj2X~Gm5
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: P*b;sP' 8pJ$[5mG~X2j
A sending packet with segnum 1 and checksum 239464 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 239464
Packet Corrupt!
Recieved checksum: 239464, segnum: 1, acknum: 42
Recieved packet data is: P
Expected checksum: 239212
Packet Corrupt!
Recieved checksum: 239464, seqnum: 1, acknum: 42
Recieved packet data is: P
Expected checksum: 239212
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 239464 and data P*b;sP' 8pJ$[5mG~X2j. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 239464
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   419718.9366, Layer 4 to 5 Message = P*b;sP' 8pJ$[5mG~X2j
Setting comp\_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Q<(q]HQ|hS>*s_J5~jUA
A sending packet with seqnum 0 and checksum 245224 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 245224
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 419764.2100, Layer 4 to 5 Message = Q<(q]HQ|hS>*s J5~jUA
Setting comp_seqnum from 0 to 1
A: 419805.6574, Layer 5 to 4 Message = ROLIFC?R9630-*'$~{xu}
   420083.7126, Layer 5 to 4 Message = Sbp~x=LZSw (6ESbp~x=L
A:
A timed out. Sending packet with seqnum 0, and checksum 245224 again
B gettin' a packet with seqnum 0, and checksum 1896070632
Packet Corrupt!
Recieved checksum: 1896070632, seqnum: 0, acknum: 0
Recieved packet data is: Q<(
Expected checksum: 243416
Packet Corrupt!
Recieved checksum: 1896070632, seqnum: 0, acknum: 0
Recieved packet data is: Q<(
Expected checksum: 243416
Packet corrupt
Sending bACK a NAK!
```

```
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 245224
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ROLIFC?R9630-*'$~{xu
A sending packet with segnum 1 and checksum 237987 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 237987
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 420274.0006, Layer 4 to 5 Message = ROLIFC?R9630-*'$~{xu}
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Sbp~x=LZSw(6ESbp~x=L
A sending packet with segnum 0 and checksum 255707 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 255707 again
B gettin' a packet with seqnum 0, and checksum 255707
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 420802.1711, Layer 4 to 5 Message = Sbp~x=LZSw(6ESbp~x=L
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
   421357.2950, Layer 5 to 4 Message = dt6Vv8Xx:Tz<2|> ~Aa#
A sending packet with seqnum 1 and checksum 233325
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 233325 again
A timed out. Sending packet with seqnum 1, and checksum 233325 again
B gettin' a packet with seqnum 1, and checksum 233325
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 422366.9276, Layer 4 to 5 Message = dt6Vv8Xx:Tz<2|> ~Aa#
Setting comp segnum from 1 to 0
A: 422504.8129, Layer 5 to 4 Message = UfZ.`3e8j=UCtH3M~R&W
A timed out. Sending packet with seqnum 1, and checksum 233325 again
B gettin' a packet with seqnum 1, and checksum 233325
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 233325
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: UfZ.`3e8j=UCtH3M~R&W
A sending packet with seqnum 0 and checksum 225753 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 225753
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
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B: 422895.9072, Layer 4 to 5 Message = UfZ.`3e8j=UCtH3M~R&W
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
   423074.6525, Layer 5 to 4 Message = V;~dI.qV;~dV.qV;~dI.
A sending packet with seqnum 1 and checksum 237310
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 237310
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 423084.3139, Layer 4 to 5 Message = V;~dI.qV;~dV.qV;~dI.
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 423502.2027, Layer 5 to 4 Message = WNE;2)}tkbXOW<3*~ulc
A sending packet with segnum 0 and checksum 260253
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 260253 again
B gettin' a packet with seqnum 0, and checksum 260253
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 424019.5326, Layer 4 to 5 Message = WNE;2)}tkbXOW<3*~ulc
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 260253 again
A timed out. Sending packet with seqnum 0, and checksum 260253 again
B gettin' a packet with seqnum 0, and checksum 260253
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
A: 425116.9168, Layer 5 to 4 Message = Xaiqy$, 4 < EMU^Xnv^2) 19
A timed out. Sending packet with seqnum 0, and checksum 260253 again
A: 425590.3257, Layer 5 to 4 Message = YsxIc|8R1(B[u1Ye~:Tn
A timed out. Sending packet with seqnum 0, and checksum 260253 again
B gettin' a packet with seqnum 0, and checksum 260253
Packet Corrupt!
Recieved checksum: 260253, seqnum: 0, acknum: 0
Recieved packet data is: WNE;2W}tkbXO)<3*~ulc</pre>
Expected checksum: 254135
Packet Corrupt!
Recieved checksum: 260253, seqnum: 0, acknum: 0
Recieved packet data is: WNE; 2W}tkbXO) < 3*~ulc
Expected checksum: 254135
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 260253 again
B gettin' a packet with seqnum 0, and checksum 260253
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A: 426558.7866, Layer 5 to 4 Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE)
A timed out. Sending packet with segnum 0, and checksum 260253 again
B gettin' a packet with seqnum 0, and checksum 260253
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
```

```
Last sent packet Checksum: 260253
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Xaiqy$,4<EMU^Xnv~)19
A sending packet with segnum 1 and checksum 224556 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 224556
Packet Corrupt!
Recieved checksum: 224556, segnum: 1, acknum: 0
Recieved packet data is: XaiXy$, 4<EMU^qnv~)19
Expected checksum: 229056
Packet Corrupt!
Recieved checksum: 224556, seqnum: 1, acknum: 0
Recieved packet data is: XaiXy$,4<EMU^qnv~)19
Expected checksum: 229056
Packet corrupt
Sending bACK a NAK!
   427111.0267, Layer 5 to 4 Message = d:wV5rQ0mL+h2&cB[^<y
A timed out. Sending packet with seqnum 1, and checksum 224556 again
A: 427551.3135, Layer 5 to 4 Message = ]M=.|m^N>x}n O?0~]`P
B gettin' a packet with seqnum 1, and checksum 224556
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 427555.3961, Layer 4 to 5 Message = Xaiqy$,4<EMU^Xnv~)19
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 224556 again
B gettin' a packet with segnum 1, and checksum 224556
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 224556 again
B gettin' a packet with segnum 1, and checksum 224556
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 224556
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: YsxIc|8Rl(B[u1Ye~:Tn
A sending packet with segnum 0 and checksum 256277 from the queue
A sending packet to B
B gettin' a packet with segnum 7667712, and checksum 256277
Packet Corrupt!
Recieved checksum: 256277, seqnum: 7667712, acknum: 0
Recieved packet data is: YsxIc|8Rl(B[
Expected checksum: 23239640
Packet Corrupt!
Recieved checksum: 256277, segnum: 7667712, acknum: 0
Recieved packet data is: YsxIc|8Rl(B[
Expected checksum: 23239640
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 256277 again
A: 429514.5706, Layer 5 to 4 Message = ^\circbdfhjlnprtvxz|^*
A timed out. Sending packet with seqnum 0, and checksum 256277 again
A: 429550.9541, Layer 5 to 4 Message = f(;Ocv,?Sgz0D3k\sim4H
B gettin' a packet with segnum 0, and checksum 256277
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
```

```
B sending message up to layer 5 and updating newest recieved data
B: 429559.5565, Layer 4 to 5 Message = YsxIc|8R1(B[u1Ye~:Tn
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Z(S~LwEp=i6bxZ(Z~LwE
A sending packet with segnum 1 and checksum 257316 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 257316
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   429576.2255, Layer 4 to 5 Message = Z(S~LwEp=i6bxZ(Z~LwE
B:
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1334
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1334
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 257316 and data Z(S~LwEp=i6bxZ(Z~LwE.
B gettin' a packet with seqnum 1, and checksum 257316
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, segnum: 78, acknum: 0
Recieved packet data is:
Expected checksum: 1092
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 78. last_transmitted seqnum: 1
Last sent packet Checksum: 257316
Packet Corrupt!
Recieved checksum: 936, segnum: 78, acknum: 0
Recieved packet data is:
Expected checksum: 1092
A: no valid ACK, got instead with corruption. Resending packet with
checksum 257316 and data Z(S~LwEp=i6bxZ(Z~LwE.
B gettin' a packet with seqnum 1, and checksum 257316
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 257316
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d:wV5rQ0mL+h2&cB[^<y
A sending packet with segnum 0 and checksum 233664 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 233664
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
```

```
B sending message up to layer 5 and updating newest recieved data
B: 429642.5384, Layer 4 to 5 Message = d:wV5rQ0mL+h2&cB[^<y
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1100
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1100
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 233664 and data d:wV5rQ0mL+h2&cB[^<y.
B gettin' a packet with seqnum 0, and checksum 233664
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 78
Recieved packet data is:
Expected checksum: 705
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 233664
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 78
Recieved packet data is:
Expected checksum: 705
A: no valid ACK, got instead with corruption. Resending packet with
checksum 233664 and data d:wV5rQ0mL+h2&cB[^<y.
B gettin' a packet with seqnum 0, and checksum 233664
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
A: 429769.4209, Layer 5 to 4 Message = `'Lq8^%Jo6[#Hm4Y~Fk2
A timed out. Sending packet with seqnum 0, and checksum 233664 again
B gettin' a packet with seqnum 0, and checksum 233664
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 233664
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ]M=.|m^N>x}n O?0~]`P
A sending packet with segnum 1 and checksum 257425 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 257425 again
A timed out. Sending packet with seqnum 1, and checksum 257425 again
B gettin' a packet with seqnum 1, and checksum 257425
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 431187.5637, Layer 4 to 5 Message = ]M=.|m^N>x\}n O?0~]P
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
```

```
Sending next data from the queue!
Data being dequeued: ^`bdfhjlnprtvxz|~#^'
A sending packet with seqnum 0 and checksum 271835 from the queue
A sending packet to B
A: 431254.5060, Layer 5 to 4 Message = aapI!X1hAwP)`8oH~W0g
A timed out. Sending packet with seqnum 0, and checksum 271835 again
   432180.8047, Layer 5 to 4 Message = bLb~iS=(pZExwbL6~iS=
A timed out. Sending packet with segnum 0, and checksum 271835 again
B gettin' a packet with segnum 0, and checksum 271835
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 432230.7820, Layer 4 to 5 Message = ^`bdfhjlnprtvxz|~#^'
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 271835 again
B gettin' a packet with seqnum 0, and checksum 271835
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 0, acknum: 16777216
Recieved packet data is: NAK
Expected checksum: -33553496
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 16777216
Recieved packet data is: NAK
Expected checksum: -33553496
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 271835 and data ``bdfhjlnprtvxz|~\#^{'}.
B gettin' a packet with segnum 0, and checksum 271835
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 846, seqnum: 1, acknum: 0
Recieved packet data is: «AK
Expected checksum: 776
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 271835
Packet Corrupt!
Recieved checksum: 846, seqnum: 1, acknum: 0
Recieved packet data is: «AK
Expected checksum: 776
A: no valid ACK, got «AK instead with corruption. Resending packet with
checksum 271835 and data ^`bdfhjlnprtvxz|~#^'.
B gettin' a packet with seqnum 0, and checksum 271835
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 271835
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: f(;Ocv,?Sgz0D3k~4H
A sending packet with segnum 1 and checksum 236865 from the queue
A sending packet to B
```

```
B gettin' a packet with seqnum 1, and checksum 236865
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 432809.2296, Layer 4 to 5 Message = f(;Ocv,?Sgz0D3k~4H
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 236865 again
B gettin' a packet with segnum 6225921, and checksum 236865
Packet Corrupt!
Recieved checksum: 236865, seqnum: 6225921, acknum: 0
Recieved packet data is: f(;Ocv,?Sgz0D3k~4H
Expected checksum: 18876625
Packet Corrupt!
Recieved checksum: 236865, seqnum: 6225921, acknum: 0
Recieved packet data is: f(;Ocv,?Sgz0D3k~4H
Expected checksum: 18876625
Packet corrupt
Sending bACK a NAK!
A: 433470.6855, Layer 5 to 4 Message = d ZcRNJFB=952-)%~zvr
A timed out. Sending packet with segnum 1, and checksum 236865 again
B gettin' a packet with seqnum 1, and checksum 236865
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 236865
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: `'Lq8^%Jo6[#Hm4Y~Fk2
A sending packet with segnum 0 and checksum 230179 from the queue
A sending packet to B
A: 434292.3356, Layer 5 to 4 Message = dq~.dIVdq~.;IVdq~.;I
A timed out. Sending packet with segnum 0, and checksum 230179 again
B gettin' a packet with segnum 0, and checksum 230179
Packet Corrupt!
Recieved checksum: 230179, seqnum: 0, acknum: 0 Recieved packet data is: `'Lq8%^Jo6[#Hm4Y~Fk2
Expected checksum: 230920
Packet Corrupt!
Recieved checksum: 230179, seqnum: 0, acknum: 0
Recieved packet data is: `'Lg8%^Jo6[#Hm4Y~Fk2
Expected checksum: 230920
Packet corrupt
Sending bACK a NAK!
A: 434440.2409, Layer 5 to 4 Message = e&Ed%ec$Cb#Ba!A`~?}
A timed out. Sending packet with seqnum 0, and checksum 230179 again
B gettin' a packet with seqnum 0, and checksum 230179
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 434807.2979, Layer 4 to 5 Message = \Lq8^{\gray}Jo6[\#Hm4Y\sim Fk2]
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: aapI!X1hAwP) `8oH~W0g
A sending packet with segnum 1 and checksum 242123 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 242123
```

```
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 434836.2319, Layer 4 to 5 Message = aapI!X1hAwP) `8oH~W0g
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: bLb~iS=(pZExwbL6~iS=
A sending packet with segnum 0 and checksum 253126 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 253126
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   434872.1202, Layer 4 to 5 Message = bLb~iS=(pZExwbL6~iS=
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: d ZcRNJFB=952-)%~zvr
A sending packet with segnum 1 and checksum 241846 from the queue
A sending packet to B
A: 435093.0397, Layer 5 to 4 Message = f8i;1>fBrEuHxK{N~Q$T
   435261.8615, Layer 5 to 4 Message = gKxqU9{qD(jN2tX<~cG+
A timed out. Sending packet with seqnum 1, and checksum 241846 again
B gettin' a packet with segnum 1, and checksum 241846
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   435389.2763, Layer 4 to 5 Message = d ZcRNJFB=952-)%~zvr
Setting comp segnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 241846 again
B gettin' a packet with segnum 1, and checksum 241846
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NKA
Expected checksum: 886
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 241846
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NKA
Expected checksum: 886
A: no valid ACK, got NKA instead with corruption. Resending packet with
checksum 241846 and data d ZcRNJFB=952-)%~zvr.
B gettin' a packet with segnum 1, and checksum 241846
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 241846
Not corrupt, but bad sequence number, sending next boi
```

```
Data being dequeued: dq~.dIVdq~.;IVdq~.;I
A sending packet with seqnum 0 and checksum 236340 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 236340
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 435911.7452, Layer 4 to 5 Message = dq~.dIVdq~.;IVdq~.;I
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 4915201
Recieved packet data is: AC
Expected checksum: -9830146
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 4915201
Recieved packet data is: AC
Expected checksum: -9830146
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 236340 and data dq~.dIVdq~.;IVdq~.;I.
B gettin' a packet with segnum 0, and checksum 236340
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 236340
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: e&Ed%ec$Cb#Ba!A`~? }
A sending packet with segnum 1 and checksum 246265 from the queue
A sending packet to B
B gettin' a packet with segnum 637534209, and checksum 246265
Packet Corrupt!
Recieved checksum: 246265, seqnum: 637534209, acknum: 0
Recieved packet data is: e
Expected checksum: 1912848737
Packet Corrupt!
Recieved checksum: 246265, seqnum: 637534209, acknum: 0
Recieved packet data is: e
Expected checksum: 1912848737
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 246265 again
B gettin' a packet with seqnum 1, and checksum 246265
Packet Corrupt!
Recieved checksum: 246265, seqnum: 1, acknum: 0
Recieved packet data is: e&Ed%ea$Cb#Bc!A`~? }
Expected checksum: 246505
Packet Corrupt!
Recieved checksum: 246265, seqnum: 1, acknum: 0
Recieved packet data is: e&Ed%ea$Cb#Bc!A`~? }
Expected checksum: 246505
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 3
Recieved packet data is: NAK
```

```
Expected checksum: 933
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 3
Recieved packet data is: NAK
Expected checksum: 933
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 246265 and data e&Ed%ec$Cb#Ba!A`~? }.
A: 436649.5351, Layer 5 to 4 Message = hfSI>4*}hi TJ?3+~tj`
A timed out. Sending packet with segnum 1, and checksum 246265 again
B gettin' a packet with segnum 1, and checksum 246265
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 436961.8334, Layer 4 to 5 Message = e&Ed%ec$Cb#Ba!A`~?}
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 246265 again
A timed out. Sending packet with seqnum 1, and checksum 246265 again
B gettin' a packet with segnum 1, and checksum 246265
Packet Corrupt!
Recieved checksum: 246265, seqnum: 1, acknum: 0
Recieved packet data is: e&Ed%ec$Cb#~a!A`B? }
Expected checksum: 237565
Packet Corrupt!
Recieved checksum: 246265, seqnum: 1, acknum: 0
Recieved packet data is: e&Ed%ec$Cb#~a!A`B? }
Expected checksum: 237565
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 27336
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 246265
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 27336
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 246265 and data e&Ed%ec$Cb#Ba!A`~? }.
B gettin' a packet with seqnum 1, and checksum 246265
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -9712
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 246265
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -9712
```

```
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 246265 and data e&Ed%ec$Cb#Ba!A`~? }.
B gettin' a packet with seqnum 1, and checksum 8307193
Packet Corrupt!
Recieved checksum: 8307193, seqnum: 1, acknum: 0
Recieved packet data is: e&Ed%ec$Cb#Ba!A` ? }
Expected checksum: 210718
Packet Corrupt!
Recieved checksum: 8307193, segnum: 1, acknum: 0
Recieved packet data is: e&Ed%ec$Cb#Ba!A` ? }
Expected checksum: 210718
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 246265 again
A: 438568.7262, Layer 5 to 4 Message = ipw \sim (x6=EiSZbipw \sim (x
A timed out. Sending packet with segnum 1, and checksum 246265 again
B gettin' a packet with seqnum 1, and checksum 246265
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 20136, seqnum: 0, acknum: 0
Recieved packet data is: AK
Expected checksum: 861
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 246265
Packet Corrupt!
Recieved checksum: 20136, seqnum: 0, acknum: 0
Recieved packet data is: AK
Expected checksum: 861
A: no valid ACK, got AK instead with corruption. Resending packet with
checksum 246265 and data e&Ed%ec$Cb#Ba!A`~? }.
B gettin' a packet with seqnum 1, and checksum 246265
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1704
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 246265
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1704
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 246265 and data e\&Ed%ec$Cb\#Ba!A^{\circ}}.
A: 439291.1201, Layer 5 to 4 Message = d%=Vo*C[txja24Mf~9Rk A: 439442.4237, Layer 5 to 4 Message = k7b.X%OyFp<k3^*T~KuB
A timed out. Sending packet with seqnum 1, and checksum 246265 again
A timed out. Sending packet with seqnum 1, and checksum 246265 again
B gettin' a packet with segnum 1, and checksum 246265
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A: 440401.2249, Layer 5 to 4 Message = IJ(dB)[9uS1ml)eC^{-}:v
```

```
A timed out. Sending packet with seqnum 1, and checksum 246265 again
B gettin' a packet with seqnum 1, and checksum 246265
Packet Corrupt!
Recieved checksum: 246265, seqnum: 1, acknum: 8192000
Recieved packet data is: e&Ed%ec$Cb#Ba!A`~?
Expected checksum: -16187735
Packet Corrupt!
Recieved checksum: 246265, segnum: 1, acknum: 8192000
Recieved packet data is: e&Ed%ec$Cb#Ba!A`~?
Expected checksum: -16187735
Packet corrupt
Sending bACK a NAK!
A: 440764.5000, Layer 5 to 4 Message = m]L;+xhWG6&scmB1~n^M
A timed out. Sending packet with seqnum 1, and checksum 246265 again
B gettin' a packet with seqnum 1, and checksum 246265
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 246265
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: f8i;1>fBrEuHxK{N~Q$T
A sending packet with seqnum 0 and checksum 248828 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 248828
Packet Corrupt!
Recieved checksum: 248828, seqnum: 0, acknum: 0
Recieved packet data is: f8i;>lfBrEuHxK{N~Q$T
Expected checksum: 249334
Packet Corrupt!
Recieved checksum: 248828, segnum: 0, acknum: 0
Recieved packet data is: f8i;>lfBrEuHxK{N~Q$T
Expected checksum: 249334
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 15301
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 15301
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 248828 and data f8i;1>fBrEuHxK{N~Q$T.
B gettin' a packet with segnum 0, and checksum 248828
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   441134.4111, Layer 4 to 5 Message = f8i; 1>fBrEuHxK{N~Q$T
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: gKxqU9{gD(jN2tX<~cG+
A sending packet with segnum 1 and checksum 231246 from the queue
```

```
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 231246
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 441156.8188, Layer 4 to 5 Message = gKxqU9\{gD(jN2tX<\sim cG+
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: hfSI>4*}hi TJ?3+~tj`
A sending packet with segnum 0 and checksum 256346 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 256346 again
B gettin' a packet with seqnum 0, and checksum 256346
Packet Corrupt!
Recieved checksum: 256346, seqnum: 0, acknum: 0
Recieved packet data is: hfSI>4~}hi TJ?3+*tj`
Expected checksum: 236186
Packet Corrupt!
Recieved checksum: 256346, seqnum: 0, acknum: 0
Recieved packet data is: hfSI>4~}hi TJ?3+*tj`
Expected checksum: 236186
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 256346 and data hfSI>4*}hi TJ?3+~tj`. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 256346
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 441728.6858, Layer 4 to 5 Message = hfSI>4*}hi TJ?3+~tj`
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ipw~(x6=EiSZbipw~(x6
A sending packet with seqnum 1 and checksum 261628 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 261628
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
\ensuremath{\mathtt{B}} sending message up to layer 5 and updating newest recieved data
B: 441783.0968, Layer 4 to 5 Message = ipw~(x6=EiSZbipw~(x6
Setting comp seqnum from 1 to 0
A: 442132.1291, Layer 5 to 4 Message = nopqrstuvwxyz\{n\}~!#$
A timed out. Sending packet with segnum 1, and checksum 261628 again
B gettin' a packet with segnum 1, and checksum 261628
Packet Corrupt!
Recieved checksum: 261628, seqnum: 1, acknum: 0
Recieved packet data is: ip=~(x6wEiSZbipw~(x6
Expected checksum: 264818
Packet Corrupt!
Recieved checksum: 261628, seqnum: 1, acknum: 0
Recieved packet data is: ip=~(x6wEiSZbipw~(x6
Expected checksum: 264818
Packet corrupt
Sending bACK a NAK!
```

```
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 168, segnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1524
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 261628
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1524
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 261628 and data ipw~(x6=EiSZbipw~(x6.
B gettin' a packet with seqnum 1, and checksum 261628
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 261628
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d%=Vo*C[txja24Mf~9Rk
A sending packet with segnum 0 and checksum 253043 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 253043 again
B gettin' a packet with seqnum 0, and checksum 253043
Packet Corrupt!
Recieved checksum: 253043, segnum: 0, acknum: 0
Recieved packet data is: b%=Vo*C[tx~a34Mfj9Rk
Expected checksum: 249850
Packet Corrupt!
Recieved checksum: 253043, seqnum: 0, acknum: 0
Recieved packet data is: b%=Vo*C[tx~a34Mfj9Rk
Expected checksum: 249850
Packet corrupt
Sending bACK a NAK!
   442856.2682, Layer 5 to 4 Message = 0\%I[n\#5HZm!4GYo~3FX]
A timed out. Sending packet with seqnum 0, and checksum 253043 again
B gettin' a packet with segnum 0, and checksum 253043
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 443318.8027, Layer 4 to 5 Message = d%=Vo*C[txja24Mf~9Rk
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: k7b.X%OyFp<k3^*T~KuB
A sending packet with segnum 1 and checksum 243904 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 243904
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 443334.2565, Layer 4 to 5 Message = k7b.X\%OyFp < k3^*T \sim KuB
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
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```
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: lJ(dB)[9uS1ml)eC~]:v
A sending packet with seqnum 0 and checksum 256795 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 256795
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 443348.1540, Layer 4 to 5 Message = 1J(dB)[9uS1ml)eC^{-}:v
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 256795 again
A timed out. Sending packet with seqnum 0, and checksum 256795 again
A: 444782.2265, Layer 5 to 4 Message = p6Z~EixSw=b(Lp6ZpEix
A timed out. Sending packet with seqnum 0, and checksum 256795 again
A timed out. Sending packet with segnum 0, and checksum 256795 again
B gettin' a packet with seqnum 0, and checksum 256795
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 256795
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: m]L;+xhWG6&scmB1~n^M
A sending packet with segnum 1 and checksum 252680 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 252680
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   445381.8405, Layer 4 to 5 Message = m]L;+xhWG6&scmB1~n^M
Setting comp segnum from 1 to 0
A: 445680.0702, Layer 5 to 4 Message = df~V.d;qI~V.2;3I~q.d
A timed out. Sending packet with seqnum 1, and checksum 252680 again
B gettin' a packet with seqnum 1, and checksum 252680
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 252680 again
B gettin' a packet with segnum 1, and checksum 252680
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 252680
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: nopqrstuvwxyz{n}~!#$
A sending packet with seqnum 0 and checksum 252474 from the queue
A sending packet to B
A timed out. Sending packet with segnum 0, and checksum 252474 again
B gettin' a packet with seqnum 7929856, and checksum 252474
Packet Corrupt!
Recieved checksum: 252474, seqnum: 7929856, acknum: 0
Recieved packet data is: nopqrstuvwx
Expected checksum: 24024618
Packet Corrupt!
Recieved checksum: 252474, seqnum: 7929856, acknum: 0
```

```
Recieved packet data is: nopqrstuvwx
Expected checksum: 24024618
Packet corrupt
Sending bACK a NAK!
A: 446956.7845, Layer 5 to 4 Message = r[E.u H1xbK4{eN7~hr:
A timed out. Sending packet with seqnum 0, and checksum 252474 again
B gettin' a packet with seqnum 0, and checksum 252474
Packet Corrupt!
Recieved checksum: 252474, segnum: 0, acknum: 0
Recieved packet data is: nopsrgtuvwxyz{n}~!#$
Expected checksum: 252434
Packet Corrupt!
Recieved checksum: 252474, seqnum: 0, acknum: 0
Recieved packet data is: nopsrqtuvwxyz{n}~!#$
Expected checksum: 252434
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 252474 again
A: 447920.1218, Layer 5 to 4 Message = snid YTOJE?:50+&~yts
B gettin' a packet with seqnum 0, and checksum 252474
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 447920.5122, Layer 4 to 5 Message = nopgrstuvwxyz{n}~!#$
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: A
Expected checksum: 4949
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, segnum: 0, acknum: 1
Recieved packet data is: A
Expected checksum: 4949
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 252474 and data nopgrstuvwxyz\{n\}~!#$.
B gettin' a packet with seqnum 0, and checksum 252474
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 252474
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: o$6I[n#5HZm!4GYo~3FX
A sending packet with seqnum 1 and checksum 230503 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 230503
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   447969.0858, Layer 4 to 5 Message = o$6I[n#5HZm!4GYo~3FX
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: p6Z~EixSw=b(Lp6ZpEix
```

A sending packet with segnum 0 and checksum 263746 from the queue

```
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 263746 again
B gettin' a packet with seqnum 0, and checksum 263746
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   448492.7455, Layer 4 to 5 Message = p6Z~EixSw=b(Lp6ZpEix
B:
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 4916129, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 254
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 4916129, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 254
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 263746 and data p6Z~EixSw=b(Lp6ZpEix.
B gettin' a packet with seqnum 0, and checksum 263746
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 263746 again
   449304.3740, Layer 5 to 4 Message = t # x; HTamy(4AMYfr~-9F
A timed out. Sending packet with seqnum 0, and checksum 263746 again
B gettin' a packet with segnum 0, and checksum 263746
Packet Corrupt!
Recieved checksum: 263746, seqnum: 0, acknum: 19456
Recieved packet data is: p6Z~EixSw=b(
Expected checksum: 211990
Packet Corrupt!
Recieved checksum: 263746, segnum: 0, acknum: 19456
Recieved packet data is: p6Z~EixSw=b(
Expected checksum: 211990
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 263746
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: df~V.d;qI~V.2;3I~q.d
A sending packet with seqnum 1 and checksum 233169 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 233169
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   449570.9115, Layer 4 to 5 Message = df~V.d;qI~V.2;3I~q.d
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: r[E.u H1xbK4{eN7~hr:
A sending packet with segnum 0 and checksum 257527 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 257527
Expected packet compared and confirmed
```

```
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 449609.8589, Layer 4 to 5 Message = r[E.u H1xbK4{eN7~hr:
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: snid YTOJE?:50+&~yts
A sending packet with segnum 1 and checksum 247908 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 247908 again
B gettin' a packet with segnum 1, and checksum 247908
Packet Corrupt!
Recieved checksum: 247908, segnum: 1, acknum: 13568
Recieved packet data is: snid YTOJE?:
Expected checksum: 211815
Packet Corrupt!
Recieved checksum: 247908, seqnum: 1, acknum: 13568
Recieved packet data is: snid YTOJE?:
Expected checksum: 211815
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 247908 again
B gettin' a packet with segnum 1, and checksum 247908
Packet Corrupt!
Recieved checksum: 247908, seqnum: 1, acknum: 89
Recieved packet data is: snid
Expected checksum: 244526
Packet Corrupt!
Recieved checksum: 247908, seqnum: 1, acknum: 89
Recieved packet data is: snid
Expected checksum: 244526
Packet corrupt
Sending bACK a NAK!
A: 450853.7265, Layer 5 to 4 Message = uuSq10m-Ki)Ge%Ca~>]z
A timed out. Sending packet with segnum 1, and checksum 247908 again
A: 451375.7792, Layer 5 to 4 Message = vHvIxJyKzL\{M|N\}O\sim P!Q
A timed out. Sending packet with seqnum 1, and checksum 247908 again
B gettin' a packet with seqnum 1, and checksum 51300
Packet Corrupt!
Recieved checksum: 51300, segnum: 1, acknum: 768
Recieved packet data is: snid YTOJE?:50+&~yts
Expected checksum: 246372
Packet Corrupt!
Recieved checksum: 51300, segnum: 1, acknum: 768
Recieved packet data is: snid YTOJE?:50+&~yts
Expected checksum: 246372
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 171, segnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1806
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1806
```

```
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 247908 and data snid YTOJE?:50+&~yts.
B gettin' a packet with seqnum 1, and checksum 247908
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 451661.0561, Layer 4 to 5 Message = snid YTOJE?:50+\&~yts
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: t#x;HTamy(4AMYfr~-9F
A sending packet with segnum 0 and checksum 230371 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 230371
Packet Corrupt!
Recieved checksum: 230371, seqnum: 0, acknum: 0
Recieved packet data is: t#9;HTamy(4AMYfr~-xF
Expected checksum: 252547
Packet Corrupt!
Recieved checksum: 230371, seqnum: 0, acknum: 0
Recieved packet data is: t#9; HTamy (4AMYfr~-xF
Expected checksum: 252547
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 230371 and data t#x; HTamy (4AMYfr~-9F. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 230371
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 451736.1838, Layer 4 to 5 Message = t \pm x; HTamy (4AMYfr \sim -9F
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 2954
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 2954
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 230371 and data t#x; HTamy (4AMYfr~-9F.
A timed out. Sending packet with seqnum 0, and checksum 230371 again
B gettin' a packet with seqnum 0, and checksum 230371
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 230371
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: uuSq10m-Ki)Ge%Ca~>]z
A sending packet with segnum 1 and checksum 250219 from the queue
 A sending packet to B
```

```
A timed out. Sending packet with seqnum 1, and checksum 250219 again
A: 453260.3049, Layer 5 to 4 Message = wZ=wbE(iLxpS6wZ=\sim bE(
A timed out. Sending packet with segnum 1, and checksum 250219 again
B gettin' a packet with seqnum 1, and checksum 250219
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 453268.8494, Layer 4 to 5 Message = uuSq10m-Ki)Ge%Ca~>]z
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, segnum: 4915201, acknum: 1
Recieved packet data is: AC
Expected checksum: 14745857
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 4915201. last transmitted seqnum: 1
Last sent packet Checksum: 250\overline{2}19
Packet Corrupt!
Recieved checksum: 932, segnum: 4915201, acknum: 1
Recieved packet data is: AC
Expected checksum: 14745857
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 250219 and data uuSq10m-Ki)Ge%Ca~>]z.
B gettin' a packet with seqnum 1, and checksum 250219
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 21936
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 250219
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 21936
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 250219 and data uuSq10m-Ki)Ge%Ca~>|z.
B gettin' a packet with seqnum 26881, and checksum 250219
Packet Corrupt!
Recieved checksum: 250219, segnum: 26881, acknum: 0
Recieved packet data is: uuSq10m-K
Expected checksum: 320359
Packet Corrupt!
Recieved checksum: 250219, segnum: 26881, acknum: 0
Recieved packet data is: uuSq10m-K
Expected checksum: 320359
Packet corrupt
Sending bACK a NAK!
   453555.8404, Layer 5 to 4 Message = dmbVx?4) {peY2C7,~sh]
   453756.9871, Layer 5 to 4 Message = y!(.4yAGMSY`flrx~'-3
A timed out. Sending packet with seqnum 1, and checksum 250219 again
B gettin' a packet with segnum 1, and checksum 250219
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
```

```
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 3
Recieved packet data is: NAK
Expected checksum: 930
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 250219
Packet Corrupt!
Recieved checksum: 168, segnum: 0, acknum: 3
Recieved packet data is: NAK
Expected checksum: 930
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 250219 and data uuSq10m-Ki)Ge%Ca~>]z.
B gettin' a packet with seqnum 1, and checksum 250219
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 250219
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: vHvIxJyKzL{M|N}O~P!Q
A sending packet with seqnum 0 and checksum 253645 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 253645
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   453876.4631, Layer 4 to 5 Message = vHvIxJyKzL\{M|N\}O\sim P!Q
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: wZ=wbE(iLxpS6wZ=~bE(
A sending packet with seqnum 1 and checksum 237523 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 237523
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 453887.2454, Layer 4 to 5 Message = wZ=wbE(iLxpS6wZ=\sim bE(
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dmbVx?4) {peY2C7,~sh]
A sending packet with segnum 0 and checksum 252996 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 252996
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 453919.3476, Layer 4 to 5 Message = dmbVx?4) {peY2C7,~sh]
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 1
Recieved packet data is: ACK
```

```
Expected checksum: -26526
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: -26526
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 252996 and data dmbVx?4) {peY2C7,~sh].
B gettin' a packet with seqnum 0, and checksum 252996
Packet Corrupt!
Recieved checksum: 252996, segnum: 0, acknum: 14080
Recieved packet data is: bmbVx?4) {peY3C
Expected checksum: 212628
Packet Corrupt!
Recieved checksum: 252996, seqnum: 0, acknum: 14080
Recieved packet data is: bmbVx?4) {peY3C
Expected checksum: 212628
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 252996
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: y!(.4yAGMSY`flrx~'-3
A sending packet with seqnum 1 and checksum 234261 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 234261
Packet Corrupt!
Recieved checksum: 234261, segnum: 1, acknum: 0
Recieved packet data is: y!(.4GAyMSY`flrx~'-3
Expected checksum: 235661
Packet Corrupt!
Recieved checksum: 234261, seqnum: 1, acknum: 0
Recieved packet data is: y!(.4GAyMSY`flrx~'-3
Expected checksum: 235661
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 234261 and data y!(.4yAGMSY`flrx~'-3. corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 234261
Packet Corrupt!
Recieved checksum: 234261, seqnum: 1, acknum: 3342336
Recieved packet data is: y!(.4yAGMSY`flrx~'-
Expected checksum: -6470811
Packet Corrupt!
Recieved checksum: 234261, seqnum: 1, acknum: 3342336
Recieved packet data is: y!(.4yAGMSY`flrx~'-
Expected checksum: -6470811
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 234261 and data y!(.4yAGMSY`flrx~'-3. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 234261
```

Expected packet compared and confirmed

```
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 454018.3474, Layer 4 to 5 Message = y!(.4yAGMSY`flrx~'-3
Setting comp seqnum from 1 to 0
A: 454430.2087, Layer 5 to 4 Message = zfLd{5ze|6Nf}73g~8Ph
A timed out. Sending packet with seqnum 1, and checksum 234261 again
B gettin' a packet with seqnum 1, and checksum 234261
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 26676
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 234261
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 26676
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 234261 and data y! (.4yAGMSY`flrx~'-3.
B gettin' a packet with segnum 1, and checksum 234261
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 234261 again
B gettin' a packet with segnum 1, and checksum 234261
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 234261
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: zfLd{5ze|6Nf}73g~8Ph
A sending packet with seqnum 0 and checksum 254518 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 254518 again
B gettin' a packet with segnum 0, and checksum 254518
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
\ensuremath{\mathtt{B}} sending message up to layer 5 and updating newest recieved data
B: 455558.6386, Layer 4 to 5 Message = zfLd{5ze|6Nf}73g~8Ph
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: -10566
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: -10566
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 254518 and data zfLd{5ze|6Nf}73g~8Ph.
B gettin' a packet with seqnum 0, and checksum 254518
```

```
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: -2121
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 254518
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: -2121
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 254518 and data zfLd{5ze|6Nf}73g~8Ph.
B gettin' a packet with seqnum 0, and checksum 254518
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 254518
Not corrupt, but bad sequence number, sending next boi
A: 455877.7559, Layer 5 to 4 Message = \{Gp; e0Y\{NwC17a, U\sim Js>\}\}
A sending packet with segnum 1 and checksum 247320
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 247320
Packet Corrupt!
Recieved checksum: 247320, segnum: 1, acknum: 0
Recieved packet data is: sGp;e0Y{NwCl7a,U~J{>
Expected checksum: 250200
Packet Corrupt!
Recieved checksum: 247320, seqnum: 1, acknum: 0
Recieved packet data is: sGp;e0Y{NwCl7a,U~J{>
Expected checksum: 250200
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 247320 and data {Gp;e0Y{NwCl7a,U~Js>. corrupted from
A to B, resending
B gettin' a packet with seqnum 2063597569, and checksum 247320
Packet Corrupt!
Recieved checksum: 247320, seqnum: 2063597569, acknum: 0
Recieved packet data is: {Gp;e0Y
Expected checksum: 1896064856
Packet Corrupt!
Recieved checksum: 247320, seqnum: 2063597569, acknum: 0
Recieved packet data is: {Gp;e0Y
Expected checksum: 1896064856
Packet corrupt
Sending bACK a NAK!
A: 456321.8511, Layer 5 to 4 Message = |Y6qN+fC|Z7rO,qD\sim[8s]
A timed out. Sending packet with seqnum 1, and checksum 247320 again
B gettin' a packet with segnum 1, and checksum 247320
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
```

```
B sending message up to layer 5 and updating newest recieved data
B: 456393.9210, Layer 4 to 5 Message = {Gp;e0Y{NwC17a,U~Js>}
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1329
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 247320
Packet Corrupt!
Recieved checksum: 932, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1329
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 247320 and data {Gp;e0Y{NwCl7a,U~Js>.
B gettin' a packet with segnum 1, and checksum 247320
Packet Corrupt!
Recieved checksum: 247320, seqnum: 1, acknum: 0
Recieved packet data is: {Gp;e0Y{NwCl7U,a~Js>
Expected checksum: 248040
Packet Corrupt!
Recieved checksum: 247320, segnum: 1, acknum: 0
Recieved packet data is: {Gp;e0Y{NwCl7U,a~Js>
Expected checksum: 248040
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 247320 again
B gettin' a packet with seqnum 1, and checksum 247320
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 247320
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: |Y6qN+fC|Z7rO,gD~[8s
A sending packet with segnum 0 and checksum 252268 from the queue
A sending packet to B
B gettin' a packet with seqnum 1509949440, and checksum 252268
Packet Corrupt!
Recieved checksum: 252268, seqnum: 1509949440, acknum: 0
Recieved packet data is: |Y6qN+fC|
Expected checksum: 235124292
Packet Corrupt!
Recieved checksum: 252268, seqnum: 1509949440, acknum: 0
Recieved packet data is: |Y6qN+fC|
Expected checksum: 235124292
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 252268 and data |Y6qN+fC|Z7rO,qD~[8s. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 252268
Packet Corrupt!
Recieved checksum: 252268, seqnum: 0, acknum: 0
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```
Recieved packet data is: |Y6qN+fC|Z7rO,gDs[8~
Expected checksum: 253489
Packet Corrupt!
Recieved checksum: 252268, seqnum: 0, acknum: 0
Recieved packet data is: |Y6qN+fC|Z7rO,gDs[8~
Expected checksum: 253489
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 252268 and data |Y6qN+fC|Z7rO,qD~[8s. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 252268
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 457036.3918, Layer 4 to 5 Message = |Y6qN+fC|Z7rO,gD^{-}[8s]
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, segnum: 0, acknum: 1124073473
Recieved packet data is: A
Expected checksum: 2046821013
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1124073473
Recieved packet data is: A
Expected checksum: 2046821013
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 252268 and data |Y6qN+fC|Z7rO,gD\sim[8s.
A timed out. Sending packet with seqnum 0, and checksum 252268 again
   457712.9006, Layer 5 to 4 Message = 1217&raO, xqUD2~m[J
A timed out. Sending packet with segnum 0, and checksum 252268 again
B gettin' a packet with segnum 0, and checksum 252268
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 252268
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: }1ZI7&raO},xgUD2~m[J
A sending packet with segnum 1 and checksum 254849 from the queue
A sending packet to B
   A:
A: 458354.6582, Layer 5 to 4 Message = !3EVhy->Pbs'2J[m~2DU
A timed out. Sending packet with seqnum 1, and checksum 254849 again
B gettin' a packet with seqnum 1, and checksum 254849
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   458568.2719, Layer 4 to 5 Message = }1ZI7&raO}, xgUD2~m[J
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A sending packet with segnum 0 and checksum 361543 from the queue
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A sending packet to B

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A: 458946.1367, Layer 5 to 4 Message = ##i.Qt9]!Eh-Ps8[~Dg,
A timed out. Sending packet with seqnum 0, and checksum 361543 again
B gettin' a packet with seqnum 0, and checksum 361543
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: !3EVhy->Pbs'2J[m~2DU
A sending packet with segnum 1 and checksum 233595 from the queue
A sending packet to B
A: 459175.3804, Layer 5 to 4 Message = $X$d:oFzQ(]3h>sJ~U,a
A timed out. Sending packet with segnum 1, and checksum 233595 again
B gettin' a packet with seqnum 1, and checksum 233595
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   459596.7888, Layer 4 to 5 Message = !3EVhy->Pbs'2J[m~2DU
Setting comp segnum from 1 to 0
Recieved an \overline{ACK/NAK}...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ##i.Qt9]!Eh-Ps8[~Dg,
A sending packet with segnum 0 and checksum 230547 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 230547
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   459618.8444, Layer 4 to 5 Message = ##i.Qt9]!Eh-Ps8[~Dq,
Setting comp_seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: $X$d:oFzQ(]3h>sJ~U,a
A sending packet with seqnum 1 and checksum 241265 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 241265 again
B gettin' a packet with segnum 1, and checksum 241265
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 460144.9508, Layer 4 to 5 Message = X$d:oFzQ(]3h>sJ~U,a
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: AC
Expected checksum: 17132
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: AC
Expected checksum: 17132
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 241265 and data $X$d:oFzQ(]3h>sJ~U,a.
B gettin' a packet with segnum 1, and checksum 241265
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```
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 241265 again
A: 460943.8899, Layer 5 to 4 Message = %kS%$jR:#iQ9!hP8~g07
A timed out. Sending packet with seqnum 1, and checksum 241265 again
A timed out. Sending packet with seqnum 1, and checksum 241265 again
B gettin' a packet with seqnum 1, and checksum 241265
incorrect seanum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 4680
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 241265
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 4680
A: no valid ACK, got instead with corruption. Resending packet with
checksum 241265 and data $X$d:oFzQ(]3h>sJ~U,a.
B gettin' a packet with seqnum 1, and checksum 241265
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 241265
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: %kS%$jR:#iQ9!hP8~gO7
A sending packet with segnum 0 and checksum 224119 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 224119
Packet Corrupt!
Recieved checksum: 224119, seqnum: 0, acknum: 0
Recieved packet data is: %kS%$jR:#iQ!9hP8~gO7
Expected checksum: 224719
Packet Corrupt!
Recieved checksum: 224119, seqnum: 0, acknum: 0
Recieved packet data is: %kS%$jR:#iQ!9hP8~qO7
Expected checksum: 224719
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 224119 and data %kS%$jR:#iQ9!hP8~gO7. corrupted from
A to B, resending
A timed out. Sending packet with seqnum 0, and checksum 224119 again
B gettin' a packet with segnum 0, and checksum 224119
Packet Corrupt!
Recieved checksum: 224119, seqnum: 0, acknum: 26624
Recieved packet data is: %kS%$jR:#iQ9!
Expected checksum: 150487
Packet Corrupt!
Recieved checksum: 224119, seqnum: 0, acknum: 26624
Recieved packet data is: %kS%$jR:#iQ9!
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Expected checksum: 150487
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 19968, acknum: 0
Recieved packet data is:
Expected checksum: 60762
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 19968. last transmitted segnum: 0
Last sent packet Checksum: 224119
Packet Corrupt!
Recieved checksum: 936, seqnum: 19968, acknum: 0
Recieved packet data is:
Expected checksum: 60762
A: no valid ACK, got instead with corruption. Resending packet with
checksum 224119 and data %kS%$jR:#iQ9!hP8~gO7.
B gettin' a packet with seqnum 0, and checksum 224119
Packet Corrupt!
Recieved checksum: 224119, seqnum: 0, acknum: 0
Recieved packet data is: %8S%$jR:#iQ9!hPk~gO7
Expected checksum: 236971
Packet Corrupt!
Recieved checksum: 224119, seqnum: 0, acknum: 0
Recieved packet data is: %8S%$jR:#iQ9!hPk~gO7
Expected checksum: 236971
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 224119 and data %kS%$jR:#iQ9!hP8~q07. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 224119
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 462277.9546, Layer 4 to 5 Message = %kS%$jR:#iQ9!hP8~g07
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 224119 again
   462878.5640, Layer 5 to 4 Message = &fwq&e XRLF?933'~xrl
A timed out. Sending packet with segnum 0, and checksum 224119 again
B gettin' a packet with segnum 0, and checksum 224119
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 17139
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 224119
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 17139
A: no valid ACK, got NA instead with corruption. Resending packet with
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checksum 224119 and data %kS%\$jR:#iQ9!hP8~gO7.

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B gettin' a packet with seqnum 0, and checksum 224119
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
A: 463376.2843, Layer 5 to 4 Message = '2=IT'kv$x:FQ]hs~,7C
A timed out. Sending packet with seqnum 0, and checksum 224119 again
B gettin' a packet with seqnum 0, and checksum 224119
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
A: 464190.0651, Layer 5 to 4 Message = (Eb\sim=Z(6SpxLi(Eb\sim=Zw))
A timed out. Sending packet with segnum 0, and checksum 224119 again
B gettin' a packet with segnum 0, and checksum 224119
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 78
Recieved packet data is:
Expected checksum: 705
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 224119
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 78
Recieved packet data is:
Expected checksum: 705
A: no valid ACK, got instead with corruption. Resending packet with
checksum 224119 and data %kS%$jR:#iQ9!hP8~gO7.
B gettin' a packet with seqnum 0, and checksum 224119
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 3
Recieved packet data is: NAK
Expected checksum: 933
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 224119
Packet Corrupt!
Recieved checksum: 171, segnum: 1, acknum: 3
Recieved packet data is: NAK
Expected checksum: 933
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 224119 and data %kS%$jR:#iQ9!hP8~gO7.
A timed out. Sending packet with seqnum 0, and checksum 224119 again
B gettin' a packet with seqnum 0, and checksum 224119
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 224119 again
A: 465573.1480, Layer 5 to 4 Message = dW(V'U\&)%S$R2Q!P~O}N
A timed out. Sending packet with segnum 0, and checksum 224119 again
B gettin' a packet with seqnum 0, and checksum 224119
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
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Last sent packet Checksum: 224119
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: &fwq&e XRLF?933'~xrl
A sending packet with segnum 1 and checksum 250644 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 250644
Packet Corrupt!
Recieved checksum: 250644, segnum: 1, acknum: 0
Recieved packet data is: &fwq&e XRLF?93r'~x31
Expected checksum: 242076
Packet Corrupt!
Recieved checksum: 250644, seqnum: 1, acknum: 0
Recieved packet data is: &fwq&e XRLF?93r'~x31
Expected checksum: 242076
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 250644 and data &fwq&e XRLF?933'~xrl. corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 250644
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 465970.1477, Layer 4 to 5 Message = &fwq&e XRLF?933'~xrl
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: '2=IT'kv$x:FQ]hs~,7C
A sending packet with segnum 0 and checksum 232274 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 232274
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 466006.3161, Layer 4 to 5 Message = '2=IT'kv$x:FQ]hs~,7C
Setting comp_seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: (Eb~=Z(6SpxLi(Eb~=Zw
A sending packet with segnum 1 and checksum 259174 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 259174
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   466033.7795, Layer 4 to 5 Message = (Eb~=Z(6SpxLi(Eb~=Zw
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dW(V'U&)%S$R2Q!P~O}N
A sending packet with seqnum 0 and checksum 228655 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 228655
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
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B sending message up to layer 5 and updating newest recieved data

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B: 466045.3315, Layer 4 to 5 Message = dW(V'U\&) %S$R2Q!P~O}N
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
   466177.1604, Layer 5 to 4 Message = *jL.nP2r*6vX:z]>~aC%
A sending packet with seqnum 1 and checksum 230280
A sending packet to B
B gettin' a packet with segnum 1, and checksum 230280
Packet Corrupt!
Recieved checksum: 230280, seqnum: 1, acknum: 0
Recieved packet data is: *jL.nP2>*6vX:z]r~aC%
Expected checksum: 240264
Packet Corrupt!
Recieved checksum: 230280, seqnum: 1, acknum: 0
Recieved packet data is: *jL.nP2>*6vX:z]r~aC%
Expected checksum: 240264
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 230280 again
   466856.8050, Layer 5 to 4 Message = +|pdWK>2&+k RF9-~rfY
A timed out. Sending packet with seqnum 1, and checksum 230280 again
B gettin' a packet with seqnum 1, and checksum 230280
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 467192.5080, Layer 4 to 5 Message = *jL.nP2r*6vX:z]>~aC%
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 230280 again
B gettin' a packet with seqnum 1, and checksum 230280
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 230280
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: +|pdWK>2&+k RF9-~rfY
A sending packet with seqnum 0 and checksum 245883 from the queue
A sending packet to B
B gettin' a packet with segnum 1912602624, and checksum 245883
Packet Corrupt!
Recieved checksum: 245883, seqnum: 1912602624, acknum: 0
Recieved packet data is: +|pdWK>2&+k RF9-~
Expected checksum: 1443049523
Packet Corrupt!
Recieved checksum: 245883, seqnum: 1912602624, acknum: 0
Recieved packet data is: +|pdWK>2&+k RF9-~
Expected checksum: 1443049523
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 245883 and data +|pdWK>2&+k RF9-~rfY. corrupted from
A to B, resending
A timed out. Sending packet with seqnum 0, and checksum 245883 again
B gettin' a packet with segnum 0, and checksum 245883
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
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B sending message up to layer 5 and updating newest recieved data
B: 468262.9756, Layer 4 to 5 Message = +|pdWK>2&+k RF9-~rfY
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 11054
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 11054
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 245883 and data +|pdWK>2&+k RF9-~rfY.
B gettin' a packet with seqnum 0, and checksum 245883
Packet Corrupt!
Recieved checksum: 245883, seqnum: 0, acknum: 8126464
Recieved packet data is: +
Expected checksum: -16007541
Packet Corrupt!
Recieved checksum: 245883, seqnum: 0, acknum: 8126464
Recieved packet data is: +
Expected checksum: -16007541
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 245883
Not corrupt, but bad sequence number, sending next boi
A: 468440.7252, Layer 5 to 4 Message = ,16;AFKPUZ,ejoty~&+0
A sending packet with segnum 1 and checksum 230484
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 230484 again
B gettin' a packet with seqnum 1, and checksum 230484
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 468959.2386, Layer 4 to 5 Message = ,16;AFKPUZ,ejoty~&+0
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, segnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 7364
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 7364
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 230484 and data ,16; AFKPUZ, ejoty~&+0.
B gettin' a packet with seqnum 1, and checksum 230484
Packet Corrupt!
Recieved checksum: 230484, seqnum: 1, acknum: 32256
Recieved packet data is: ,16; AFKPUZ, ejoty
Expected checksum: 129558
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Packet Corrupt!

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Recieved checksum: 230484, seqnum: 1, acknum: 32256
Recieved packet data is: ,16; AFKPUZ, ejoty
Expected checksum: 129558
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 230484 again
   469924.0395, Layer 5 to 4 Message = -DZq*AWn'=T-$:Qh~7Ne
A timed out. Sending packet with segnum 1, and checksum 230484 again
B gettin' a packet with segnum 1, and checksum 230484
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 230484 again
B gettin' a packet with segnum 1, and checksum 230484
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A: 470793.7163, Layer 5 to 4 Message = .V~Iq;d.V~Iq.d.V~Iq;
A timed out. Sending packet with seqnum 1, and checksum 230484 again
B gettin' a packet with seqnum 1, and checksum 230484
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -4696
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 230484
Packet Corrupt!
Recieved checksum: 768, segnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -4696
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 230484 and data ,16; AFKPUZ, ejoty~&+0.
B gettin' a packet with seqnum 1, and checksum 230484
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 230484
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: -DZq*AWn'=T-$:Qh~7Ne
A sending packet with seqnum 0 and checksum 228547 from the queue
A sending packet to B
B gettin' a packet with seqnum 81, and checksum 228547
Packet Corrupt!
Recieved checksum: 228547, seqnum: 81, acknum: 0
Recieved packet data is: -DZq*AWn'=T-$:
Expected checksum: 210565
Packet Corrupt!
Recieved checksum: 228547, seqnum: 81, acknum: 0
Recieved packet data is: -DZq*AWn'=T-$:
Expected checksum: 210565
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
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Bad ACK or NAK determined by A

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Packet with checksum 228547 and data -DZq*AWn'=T-$:Qh~7Ne. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 228547
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 471073.2017, Layer 4 to 5 Message = -DZq*AWn'=T-$:Qh~7Ne
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: .V~Iq;d.V~Iq.d.V~Iq;
A sending packet with seqnum 1 and checksum 244281 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 244281
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   471105.8938, Layer 4 to 5 Message = .V~Iq;d.V~Iq.d.V~Iq;
Setting comp segnum from 1 to 0
   471363.4512, Layer 5 to 4 Message = xfE\sim Z6pL(b=wSx3E\sim Z6p)
A timed out. Sending packet with seqnum 1, and checksum 244281 again
B gettin' a packet with seqnum 1, and checksum 244281
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 244281
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: xfE~Z6pL(b=wSx3E~Z6p
A sending packet with segnum 0 and checksum 251745 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 251745
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 471624.9268, Layer 4 to 5 Message = xfE \sim Z6pL (b=wSx3E \sim Z6p
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 471852.2148, Layer 5 to 4 Message = d{iVD1|jWE2}2X03~1YG
A sending packet with segnum 1 and checksum 238649
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 238649
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   471856.8359, Layer 4 to 5 Message = d{iVD1|jWE2}2X03~1YG
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 472111.1514, Layer 5 to 4 Message = 10x.-,+*) ('&\$\$\$1\^\\| | {
A sending packet with segnum 0 and checksum 231602
A sending packet to B
B gettin' a packet with segnum 0, and checksum 231602
Packet Corrupt!
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Recieved checksum: 231602, seqnum: 0, acknum: 0
Recieved packet data is: 10x.-,+*) (~&%$#1'}|{
Expected checksum: 216986
Packet Corrupt!
Recieved checksum: 231602, seqnum: 0, acknum: 0
Recieved packet data is: 10x.-,+*) (\sim \& \% \$ 1') | {
Expected checksum: 216986
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 231602 again
B gettin' a packet with segnum 0, and checksum 231602
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 472620.5125, Layer 4 to 5 Message = 10x.-,+*) ('&\$\$\$1\^\\| \{
Setting comp segnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 231602 again
B gettin' a packet with seqnum 0, and checksum 231602
Packet Corrupt!
Recieved checksum: 231602, segnum: 0, acknum: 11776
Recieved packet data is: 10x
Expected checksum: 207314
Packet Corrupt!
Recieved checksum: 231602, segnum: 0, acknum: 11776
Recieved packet data is: 10x
Expected checksum: 207314
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 231602
Not corrupt, but bad sequence number, sending next boi
A: 473841.1940, Layer 5 to 4 Message = 2CSdt'7HXiy,<M^n21BR
A sending packet with segnum 1 and checksum 214297
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 214297
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 473861.5394, Layer 4 to 5 Message = 2CSdt'7HXiy, < M^n21BR
Setting comp segnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 214297 again
B gettin' a packet with seqnum 1, and checksum 214297
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 18408
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 214297
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 18408
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```
A: no valid ACK, got instead with corruption. Resending packet with
checksum 214297 and data 2CSdt'7HXiy, <M^n21BR.
B gettin' a packet with seqnum 1, and checksum 214297
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 19968
Recieved packet data is:
Expected checksum: -39078
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 214297
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 19968
Recieved packet data is:
Expected checksum: -39078
A: no valid ACK, got instead with corruption. Resending packet with
checksum 214297 and data 2CSdt'7HXiy, <M^n21BR.
A timed out. Sending packet with seqnum 1, and checksum 214297 again
B gettin' a packet with segnum 1, and checksum 214297
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 11010048, acknum: 0
Recieved packet data is: NAK
Expected checksum: 33031080
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 11010048. last transmitted segnum: 1
Last sent packet Checksum: 214297
Packet Corrupt!
Recieved checksum: 768, segnum: 11010048, acknum: 0
Recieved packet data is: NAK
Expected checksum: 33031080
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 214297 and data 2CSdt'7HXiy, <M^n21BR.
B gettin' a packet with seqnum 1, and checksum 214297
Packet Corrupt!
Recieved checksum: 214297, segnum: 1, acknum: 0
Recieved packet data is: 2^Sdt'7HXiy, <MCn21BR
Expected checksum: 208330
Packet Corrupt!
Recieved checksum: 214297, seqnum: 1, acknum: 0
Recieved packet data is: 2^Sdt'7HXiy, <MCn21BR
Expected checksum: 208330
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 214297
Not corrupt, but bad sequence number, sending next boi
A: 475478.0062, Layer 5 to 4 Message = 3Uw; ^{1}Df*Ln2Tv: ^{3}e)
A sending packet with segnum 0 and checksum 227220
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 227220
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Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data B: 475495.8205, Layer 4 to 5 Message = 3Uw;^!Df*Ln2Tv:]~3e)
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 227220 again
A timed out. Sending packet with seqnum 0, and checksum 227220 again
B gettin' a packet with segnum 0, and checksum 227220
Packet Corrupt!
Recieved checksum: 227220, segnum: 0, acknum: 0
Recieved packet data is: 3:w;^!Df*Ln2TvU]~3e)
Expected checksum: 233187
Packet Corrupt!
Recieved checksum: 227220, seqnum: 0, acknum: 0
Recieved packet data is: 3:w;^!Df*Ln2TvU]~3e)
Expected checksum: 233187
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 227220
Not corrupt, but bad sequence number, sending next boi
A: 476721.7175, Layer 5 to 4 Message = 4h=qGzP&Yxc8lBuK~T4^
A sending packet with segnum 1 and checksum 251237
A sending packet to B
B gettin' a packet with segnum 1, and checksum 251237
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   476726.8477, Layer 4 to 5 Message = 4h=qGzP&Yxc8lBuK~T4^
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 478120.7578, Layer 5 to 4 Message = 5zbI0u]D+pW>&kR9~fM5
A sending packet with seqnum 0 and checksum 229868
A sending packet to B
B gettin' a packet with seqnum 31232, and checksum 229868
Packet Corrupt!
Recieved checksum: 229868, segnum: 31232, acknum: 0
Recieved packet data is: 5
Expected checksum: 323076
Packet Corrupt!
Recieved checksum: 229868, seqnum: 31232, acknum: 0
Recieved packet data is: 5
Expected checksum: 323076
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 168, segnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1611
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 168, segnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1611
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A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 229868 and data 5zbIOu]D+pW>&kR9~fM5.
A: 478342.2716, Layer 5 to 4 Message = 6x(~wpibZSLE=6x(~wpi
A timed out. Sending packet with seqnum 0, and checksum 229868 again
A: 479012.8531, Layer 5 to 4 Message = d7LVaku!,6AK2`jt~+5?
A timed out. Sending packet with seqnum 0, and checksum 229868 again
B gettin' a packet with seqnum 0, and checksum 229868
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 479141.4754, Layer 4 to 5 Message = 5zbIOu]D+pW>&kR9~fM5
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 65536
Recieved packet data is: ACK
Expected checksum: -130141
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 65536
Recieved packet data is: ACK
Expected checksum: -130141
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 229868 and data 5zbIOu]D+pW>&kR9~fM5.
B gettin' a packet with seqnum 0, and checksum 229868
Packet Corrupt!
Recieved checksum: 229868, seqnum: 0, acknum: 0
Recieved packet data is: 5pbIOu]D+zW>&kR9~fM5
Expected checksum: 230828
Packet Corrupt!
Recieved checksum: 229868, segnum: 0, acknum: 0
Recieved packet data is: 5pbIOu]D+zW>&kR9~fM5
Expected checksum: 230828
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 229868 again
B gettin' a packet with seqnum 0, and checksum 229868
Packet Corrupt!
Recieved checksum: 229868, seqnum: 0, acknum: 0
Recieved packet data is: 5zbIOu+D]pW>&kR9~fM5
Expected checksum: 231468
Packet Corrupt!
Recieved checksum: 229868, seqnum: 0, acknum: 0
Recieved packet data is: 5zbIOu+D]pW>&kR9~fM5
Expected checksum: 231468
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 229868
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 6x(~wpibZSLE=6x(~wpi
A sending packet with seqnum 1 and checksum 271517 from the queue
A sending packet to B
A: 480084.3052, Layer 5 to 4 Message = 8f8.Jf$?[w5Qm+3c~<Xt
A timed out. Sending packet with segnum 1, and checksum 271517 again
A timed out. Sending packet with seqnum 1, and checksum 271517 again
A timed out. Sending packet with seqnum 1, and checksum 271517 again
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A timed out. Sending packet with seqnum 1, and checksum 271517 again
B gettin' a packet with seqnum 1, and checksum 271517
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 481710.6433, Layer 4 to 5 Message = 6x(~wpibZSLE=6x(~wpi
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: d7LVaku!,6AK2`jt~+5?
A sending packet with segnum 0 and checksum 219545 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 219545
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 481724.8090, Layer 4 to 5 Message = d7LVaku!, 6AK2`jt~+5?
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: 8f8.Jf$?[w5Qm+3c~<Xt
A sending packet with segnum 1 and checksum 247986 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 13108146
Packet Corrupt!
Recieved checksum: 13108146, seqnum: 1, acknum: 0
Recieved packet data is: 8f8.Jf$?[w5Qm+3c~<Xt
Expected checksum: 247986
Packet Corrupt!
Recieved checksum: 13108146, segnum: 1, acknum: 0
Recieved packet data is: 8f8.Jf$?[w5Qm+3c~<Xt
Expected checksum: 247986
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 247986 and data 8f8.Jf$?[w5Qm+3c~<Xt. corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 247986
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 481778.5389, Layer 4 to 5 Message = 8f8.Jf$?[w5Qm+3c~<Xt
Setting comp_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 482051.0033, Layer 5 to 4 Message = 9g693a0^-Z*W'T$Q~N{K}
A sending packet with seqnum 0 and checksum 233160
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 233160 again
A timed out. Sending packet with seqnum 0, and checksum 233160 again
A: 483071.1899, Layer 5 to 4 Message = :yZ;:[<{]=|^>}_?~`A!
A timed out. Sending packet with seqnum 0, and checksum \overline{2}33160 again
B gettin' a packet with segnum 0, and checksum 233160
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
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B: 483552.5205, Layer 4 to 5 Message = 9g693a0^-Z*W'T$Q~N{K}
Setting comp seqnum from 0 to 1
A timed out. Sending packet with segnum 0, and checksum 233160 again
B gettin' a packet with seqnum 0, and checksum 233160
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 233160 again
   485006.2941, Layer 5 to 4 Message = ;.~qd;I;.~qdVI;.~qdV
A timed out. Sending packet with seqnum 0, and checksum 233160 again
B gettin' a packet with segnum 0, and checksum 233160
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
A: 485252.1800, Layer 5 to 4 Message = \langle AEIMQ \langle Y \rangle bfjnrvz \sim % \rangle
A timed out. Sending packet with seqnum 0, and checksum 233160 again
B gettin' a packet with seqnum 0, and checksum 233160
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 233160
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: :yZ;:[<{]=|^>} ?~`A!
A sending packet with segnum 1 and checksum 236597 from the queue
A sending packet to B
A: 485744.7720, Layer 5 to 4 Message = Si \sim 6Lb = xEZp (Si \sim 6Lb
A timed out. Sending packet with seqnum 1, and checksum 236597 again
B gettin' a packet with seqnum 1, and checksum 236597
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   486107.3212, Layer 4 to 5 Message = :yZ;:[<{]=|^>} ?~`A!
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ;.~qd;I;.~qdVI;.~qdV
A sending packet with seqnum 0 and checksum 256903 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 256903
Packet Corrupt!
Recieved checksum: 256903, seqnum: 0, acknum: 1677721600
Recieved packet data is: ;.~q
Expected checksum: 939778499
Packet Corrupt!
Recieved checksum: 256903, seqnum: 0, acknum: 1677721600
Recieved packet data is: ;.~q
Expected checksum: 939778499
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 0
Recieved packet data is: KAN
Expected checksum: 960
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: KAN
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Expected checksum: 960
A: no valid ACK, got KAN instead with corruption. Resending packet with
checksum 256903 and data ;.~qd;I;.~qdVI;.~qdV.
B gettin' a packet with seqnum 0, and checksum 256903
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 486159.8334, Layer 4 to 5 Message = ;.~qd;I;.~qdVI;.~qdV
Setting comp segnum from 0 to 1
A timed out. Sending packet with segnum 0, and checksum 256903 again
B gettin' a packet with segnum 0, and checksum 256903
Packet Corrupt!
Recieved checksum: 256903, seqnum: 0, acknum: 1895825408
Recieved packet data is: ;.~
Expected checksum: 503571575
Packet Corrupt!
Recieved checksum: 256903, seqnum: 0, acknum: 1895825408
Recieved packet data is: ;.~
Expected checksum: 503571575
Packet corrupt
Sending bACK a NAK!
A: 486736.2569, Layer 5 to 4 Message = dfxV{Gn7>(Ov2g0W~Ho8
A timed out. Sending packet with seqnum 0, and checksum 256903 again
B gettin' a packet with seqnum 0, and checksum 256903
Packet Corrupt!
Recieved checksum: 256903, seqnum: 0, acknum: 113
Recieved packet data is: ;.~qd;I;.~qdVI;.~
Expected checksum: 220065
Packet Corrupt!
Recieved checksum: 256903, seqnum: 0, acknum: 113
Recieved packet data is: ;.~qd;I;.~qdVI;.~
Expected checksum: 220065
Packet corrupt
Sending bACK a NAK!
A: 487185.0448, Layer 5 to 4 Message = ?xS.gBzU0?D|W2kF~Y4m
A timed out. Sending packet with seqnum 0, and checksum 256903 again
A timed out. Sending packet with seqnum 0, and checksum 256903 again
A: 488278.4053, Layer 5 to 4 Message = A-wdP<)s`LA%o[H4~kWD
A timed out. Sending packet with seqnum 0, and checksum 256903 again
A timed out. Sending packet with seqnum 0, and checksum 256903 again
B gettin' a packet with segnum 0, and checksum 256903
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 256903
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: <AEIMQ<Y^bfjnrvz~%) -
A sending packet with seqnum 1 and checksum 240451 from the queue
A sending packet to B
B gettin' a packet with seqnum 4521985, and checksum 240451
Packet Corrupt!
Recieved checksum: 240451, seqnum: 4521985, acknum: 0
Recieved packet data is: <A
Expected checksum: 13805782
Packet Corrupt!
Recieved checksum: 240451, seqnum: 4521985, acknum: 0
Recieved packet data is: <A
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Expected checksum: 13805782
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 240451 and data <AEIMQ<Y^bfjnrvz~%)-. corrupted from
A to B, resending
A timed out. Sending packet with segnum 1, and checksum 240451 again
B gettin' a packet with segnum 1, and checksum 240451
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 489730.5625, Layer 4 to 5 Message = \langle AEIMQ \langle Y^bfjnrvz \sim 8 \rangle) -
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: =Si~6Lb=xEZp(=Si~6Lb
A sending packet with segnum 0 and checksum 244524 from the queue
A sending packet to B
   489923.9438, Layer 5 to 4 Message = Bf=;97531x-B)'3\#~|zx
A timed out. Sending packet with seqnum 0, and checksum 244524 again
A timed out. Sending packet with seqnum 0, and checksum 244524 again
B gettin' a packet with segnum 0, and checksum 244524
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 490739.7560, Layer 4 to 5 Message = =Si~6Lb=xEZp(=Si~6Lb
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, segnum: 0, acknum: 1
Recieved packet data is: A
Expected checksum: 20024
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: A
Expected checksum: 20024
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 244524 and data =Si~6Lb=xEZp(=Si~6Lb.
B gettin' a packet with segnum 0, and checksum 244524
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 244524
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dfxV}Gn7>(Ov2g0W~Ho8
A sending packet with segnum 1 and checksum 236977 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 236977
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 490805.9361, Layer 4 to 5 Message = dfxV{Gn7>(Ov2g0W~Ho8)
Setting comp segnum from 1 to 0
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A timed out. Sending packet with seqnum 1, and checksum 236977 again

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A: 491537.4424, Layer 5 to 4 Message = CRbq#2BQap!1CP`o~0?0
A timed out. Sending packet with seqnum 1, and checksum 236977 again
B gettin' a packet with seqnum 1, and checksum 236977
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 236977
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ?xS.gBzU0?D|W2kF~Y4m
A sending packet with seqnum 0 and checksum 248710 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 248710
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   491828.0456, Layer 4 to 5 Message = ?xS.gBzU0?D|W2kF~Y4m
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 10551296, acknum: 1
Recieved packet data is: ACK
Expected checksum: 31654817
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 10551296. last transmitted segnum: 0
Last sent packet Checksum: 248710
Packet Corrupt!
Recieved checksum: 768, segnum: 10551296, acknum: 1
Recieved packet data is: ACK
Expected checksum: 31654817
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 248710 and data ?xS.qBzU0?D|W2kF~Y4m.
A timed out. Sending packet with seqnum 0, and checksum 248710 again
B gettin' a packet with seqnum 0, and checksum 248710
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 248710
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: A-wdP<)s`LA%o[H4~kWD
A sending packet with seqnum 1 and checksum 240736 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 240736
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 492359.5109, Layer 4 to 5 Message = A-wdP<)s`LA%o[H4~kWD
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: -3576
Bad ACK or NAK determined by A
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Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: -3576
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 240736 and data A-wdP<)s`LA%o[H4~kWD.
A: 492402.0693, Layer 5 to 4 Message = De(Ij-No2St7XD<^~Bc&
A: 492868.6682, Layer 5 to 4 Message = EwL~S(Zxb6i=pEEL~S(Z
A timed out. Sending packet with seqnum 1, and checksum 240736 again
A: 492997.1987, Layer 5 to 4 Message = d,pV<#qM3w^D2nTF~eK1
A: 493136.2677, Layer 5 to 4 Message = G>6.&{skcZRJB91}Gvnf
A timed out. Sending packet with seqnum 1, and checksum 240736 again
B gettin' a packet with segnum 1, and checksum 240736
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 240736
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Bf=;97531x-B)'3#~|zx
A sending packet with seqnum 0 and checksum 245714 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 245624
Packet Corrupt!
Recieved checksum: 245624, seqnum: 0, acknum: 0
Recieved packet data is: Bf=;97531Ò-B)'3#~|zx
Expected checksum: 229114
Packet Corrupt!
Recieved checksum: 245624, segnum: 0, acknum: 0
Recieved packet data is: Bf=;97531O-B)'3#~|zx
Expected checksum: 229114
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 5941
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 5941
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 245714 and data Bf=;97531x-B)'3\#~|zx.
A timed out. Sending packet with seqnum 0, and checksum 245714 again
B gettin' a packet with seqnum 1107296256, and checksum 245714
Packet Corrupt!
Recieved checksum: 245714, seqnum: 1107296256, acknum: 0
Recieved packet data is: Bf=;97531x-
Expected checksum: -972842318
Packet Corrupt!
Recieved checksum: 245714, seqnum: 1107296256, acknum: 0
Recieved packet data is: Bf=;97531x-
Expected checksum: -972842318
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
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```
Bad ACK or NAK determined by A
Packet with checksum 245714 and data Bf=;97531x-B)'3#~|zx. corrupted from
A to B, resending
A timed out. Sending packet with seqnum 0, and checksum 245714 again
A: 494469.1596, Layer 5 to 4 Message = HQZdmv!+4=GPYclu~H3<
A timed out. Sending packet with seqnum 0, and checksum 245714 again
A timed out. Sending packet with seqnum 0, and checksum 245714 again
B gettin' a packet with segnum 0, and checksum 245714
Packet Corrupt!
Recieved checksum: 245714, segnum: 0, acknum: 30720
Recieved packet data is: Bf=;97531
Expected checksum: 172274
Packet Corrupt!
Recieved checksum: 245714, segnum: 0, acknum: 30720
Recieved packet data is: Bf=;97531
Expected checksum: 172274
Packet corrupt
Sending bACK a NAK!
   495652.0183, Layer 5 to 4 Message = Id~; Vq.Id~; Vq.Id~; Iq
A timed out. Sending packet with segnum 0, and checksum 245714 again
B gettin' a packet with segnum 0, and checksum 245714
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 495974.9888, Layer 4 to 5 Message = Bf=; 97531x-B) '3#~|zx
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: CRbq#2BQap!1CP`o~0?0
A sending packet with segnum 1 and checksum 227538 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 227538
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 495977.3466, Layer 4 to 5 Message = CRbq#2BQap!1CP`o~0?0
Setting comp_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: De(Ij-No2St7XD<^~Bc&
A sending packet with segnum 0 and checksum 225926 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 225926
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   495982.6521, Layer 4 to 5 Message = De(Ij-No2St7XD<^~Bc&
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: EwL~S(Zxb6i=pEEL~S(Z
A sending packet with seqnum 1 and checksum 234782 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 234782
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
```

B sending message up to layer 5 and updating newest recieved data

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B: 496029.4174, Layer 4 to 5 Message = EwL~S(Zxb6i=pEEL~S(Z
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 4391844, seqnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 664
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 4391844, segnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 664
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 234782 and data EwL~S(Zxb6i=pEEL~S(Z.
B gettin' a packet with seqnum 1, and checksum 234782
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, segnum: 0, acknum: 11010048
Recieved packet data is: NAK
Expected checksum: -22019160
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 234782
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 11010048
Recieved packet data is: NAK
Expected checksum: -22019160
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 234782 and data EwL~S(Zxb6i=pEEL~S(Z.
A timed out. Sending packet with segnum 1, and checksum 234782 again
B gettin' a packet with segnum 1, and checksum 234782
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 26130
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 234782
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 26130
A: no valid ACK, got instead with corruption. Resending packet with
checksum 234782 and data EwL~S(Zxb6i=pEEL~S(Z.
B gettin' a packet with segnum 1, and checksum 234782
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 234782
Not corrupt, but bad sequence number, sending next boi
```

```
Data being dequeued: d,pV<#gM3w^D2nTF~eK1
A sending packet with seqnum 0 and checksum 235158 from the queue
A sending packet to B
A: 497001.3053, Layer 5 to 4 Message = JvEq?1:g5b0]+W&R~MyJ
A timed out. Sending packet with seqnum 0, and checksum 235158 again
A timed out. Sending packet with seqnum 0, and checksum 235158 again
B gettin' a packet with seqnum 0, and checksum 235158
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 497660.6190, Layer 4 to 5 Message = d,pV<#gM3w^D2nTF~eK1
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: G>6.&{skcZRJB91)Gvnf
A sending packet with seqnum 1 and checksum 240033 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 240033 again
B gettin' a packet with seqnum 1, and checksum 240033
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 498182.1660, Layer 4 to 5 Message = G>6.&{skcZRJB91}Gvnf
Setting comp segnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 240033 again
B gettin' a packet with segnum 1, and checksum 240033
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 240033
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: HQZdmv!+4=GPYclu~H3<
A sending packet with seqnum 0 and checksum 235344 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 235344
Packet Corrupt!
Recieved checksum: 235344, seqnum: 0, acknum: 0
Recieved packet data is: HQZdmvP+4=G!Yclu~H3<
Expected checksum: 230879
Packet Corrupt!
Recieved checksum: 235344, segnum: 0, acknum: 0
Recieved packet data is: HQZdmvP+4=G!Yclu~H3<
Expected checksum: 230879
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 7176
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 7176
```

```
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 235344 and data HQZdmv!+4=GPYclu~H3<.
B gettin' a packet with seqnum 0, and checksum 235344
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 498739.0825, Layer 4 to 5 Message = HQZdmv!+4=GPYclu~H3<
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Id~; Vq.Id~; Vq.Id~; Iq
A sending packet with segnum 1 and checksum 253065 from the queue
A sending packet to B
A: 498847.6952, Layer 5 to 4 Message = KfiI)gG'eE%cC#3A~ >|
A timed out. Sending packet with seqnum 1, and checksum 253065 again
A timed out. Sending packet with seqnum 1, and checksum 253065 again
B gettin' a packet with seqnum 1, and checksum 253065
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 499777.0020, Layer 4 to 5 Message = Id~; Vq.Id~; Vq.Id~; Iq
Setting comp_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: JvEq?1:g5b0]+W&R~MyJ
A sending packet with segnum 0 and checksum 239592 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 239592
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   499793.2614, Layer 4 to 5 Message = JvEq?1:g5b0]+W&R~MyJ
Setting comp segnum from 0 to 1
A: 500222.2610, Layer 5 to 4 Message = LLx~pbSE6(wiZL=x~pbS
A timed out. Sending packet with seqnum 0, and checksum 239592 again
B gettin' a packet with seqnum 0, and checksum 239592
Packet Corrupt!
Recieved checksum: 239592, seqnum: 0, acknum: 0
Recieved packet data is: JvEq?l:g50b]+W&R~MyJ
Expected checksum: 240642
Packet Corrupt!
Recieved checksum: 239592, seqnum: 0, acknum: 0
Recieved packet data is: JvEq?1:q50b]+W&R~MyJ
Expected checksum: 240642
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 23403
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 239592
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is:
```

```
Expected checksum: 23403
A: no valid ACK, got instead with corruption. Resending packet with
checksum 239592 and data JvEq?1:q5b0]+W&R~MyJ.
B gettin' a packet with seqnum 0, and checksum 239592
Packet Corrupt!
Recieved checksum: 239592, seqnum: 0, acknum: 3801088
Recieved packet data is: JvEq?1
Expected checksum: -7365426
Packet Corrupt!
Recieved checksum: 239592, segnum: 0, acknum: 3801088
Recieved packet data is: JvEq?1
Expected checksum: -7365426
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 29019
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 239592
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 29019
A: no valid ACK, got instead with corruption. Resending packet with
checksum 239592 and data JvEq?1:g5b0]+W&R~MyJ.
B gettin' a packet with seqnum 0, and checksum 239592
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 1258291200
Recieved packet data is: NA
Expected checksum: 1778385160
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 239592
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 1258291200
Recieved packet data is: NA
Expected checksum: 1778385160
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 239592 and data JvEq?1:g5b0]+W&R~MyJ.
B gettin' a packet with seqnum 0, and checksum 7972840
Packet Corrupt!
Recieved checksum: 7972840, segnum: 0, acknum: 0
Recieved packet data is: JvEq?1:g5b0]+W&R~M J
Expected checksum: 196994
Packet Corrupt!
Recieved checksum: 7972840, segnum: 0, acknum: 0
Recieved packet data is: JvEq?l:g5b0]+W&R~M J
Expected checksum: 196994
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
```

```
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 239592
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: KfiI)gG'eE%cC#3A~ >|
A sending packet with segnum 1 and checksum 232518 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 232518
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 500437.0220, Layer 4 to 5 Message = KfiI)gG'eE%cC#3A~ >|
Setting comp\_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: LLx~pbSE6(wiZL=x~pbS
A sending packet with seqnum 0 and checksum 271934 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 271934
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 500460.4759, Layer 4 to 5 Message = LLx~pbSE6(wiZL=x~pbS
Setting comp segnum from 0 to 1
A: 500760.7\overline{1}31, Layer 5 to 4 Message = dPMVY] `cfilo2ux{~$'*}
A timed out. Sending packet with segnum 0, and checksum 271934 again
A timed out. Sending packet with seqnum 0, and checksum 271934 again
B gettin' a packet with seqnum 0, and checksum 271934
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 271934
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dPMVY] `cfilo2ux{~$'*
A sending packet with seqnum 1 and checksum 235669 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 235669
Packet Corrupt!
Recieved checksum: 235669, seqnum: 1, acknum: 0
Recieved packet data is: bPMVY]`ifclo3ux{~$'*
Expected checksum: 235620
Packet Corrupt!
Recieved checksum: 235669, seqnum: 1, acknum: 0
Recieved packet data is: bPMVY]`ifclo3ux{~$'*
Expected checksum: 235620
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 235669 and data dPMVY] `cfilo2ux{~$'*. corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 235669
Packet Corrupt!
Recieved checksum: 235669, segnum: 1, acknum: 0
Recieved packet data is: bPMVY]~cfilo3ux{`$'*
Expected checksum: 228636
```

```
Packet Corrupt!
Recieved checksum: 235669, seqnum: 1, acknum: 0
Recieved packet data is: bPMVY]~cfilo3ux{`$'*
Expected checksum: 228636
Packet corrupt
Sending bACK a NAK!
A: 501815.2993, Layer 5 to 4 Message = NcwNCWl#7Lau,AUj~5J
A timed out. Sending packet with segnum 1, and checksum 235669 again
A timed out. Sending packet with seqnum 1, and checksum 235669 again
B gettin' a packet with segnum 1, and checksum 235669
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 502501.7593, Layer 4 to 5 Message = dPMVY] `cfilo2ux{~$'*
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 10312
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 10312
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 235669 and data dPMVY] `cfilo2ux{~$'*.
A timed out. Sending packet with segnum 1, and checksum 235669 again
B gettin' a packet with seqnum 1, and checksum 235669
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 168, seqnum: 3, acknum: 0
Recieved packet data is: NAK
Expected checksum: 945
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 3. last_transmitted seqnum: 1
Last sent packet Checksum: 235669
Packet Corrupt!
Recieved checksum: 168, segnum: 3, acknum: 0
Recieved packet data is: NAK
Expected checksum: 945
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 235669 and data dPMVY] `cfilo2ux{~$'*.
A: 503135.8354, Layer 5 to 4 Message = Ou=dORxAgxU{Dj2X~Gm5
A: 503423.3397, Layer 5 to 4 Message = P*b;sP' 8pJ$[5mG~X2j
A: 503507.8696, Layer 5 to 4 Message = Q<(q]HQ|hS>*s J5~jUA
A timed out. Sending packet with segnum 1, and checksum 235669 again
A timed out. Sending packet with seqnum 1, and checksum 235669 again
B gettin' a packet with segnum 1, and checksum 235669
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 5061
Bad ACK or NAK determined by A
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```
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 235669
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 5061
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 235669 and data dPMVY] `cfilo2ux{~$'*.
B gettin' a packet with segnum 1, and checksum 235669
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 235669
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: NcwNCWl#7Lau, AUj~5J
A sending packet with seqnum 0 and checksum 240432 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 240432
Packet Corrupt!
Recieved checksum: 240432, segnum: 0, acknum: 25344
Recieved packet data is: N
Expected checksum: 189348
Packet Corrupt!
Recieved checksum: 240432, seqnum: 0, acknum: 25344
Recieved packet data is: N
Expected checksum: 189348
Packet corrupt
Sending bACK a NAK!
A: 504201.7585, Layer 5 to 4 Message = ROLIFC?R9630-*'$~{xu}
A timed out. Sending packet with segnum 0, and checksum 240432 again
A timed out. Sending packet with seqnum 0, and checksum 240432 again
A timed out. Sending packet with seqnum 0, and checksum 240432 again
B gettin' a packet with seqnum 0, and checksum 240432
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 505589.6308, Layer 4 to 5 Message = NcwNCWl#7Lau, AUj~5J
Setting comp segnum from 0 to 1
A: 505946.6393, Layer 5 to 4 Message = Sbp~x=LZSw(6ESbp~x=L
A timed out. Sending packet with seqnum 0, and checksum 240432 again
B gettin' a packet with seqnum 0, and checksum 240432
Packet Corrupt!
Recieved checksum: 240432, seqnum: 0, acknum: 0
Recieved packet data is: NcwNCul#7LaW, AUj~5J
Expected checksum: 237192
Packet Corrupt!
Recieved checksum: 240432, seqnum: 0, acknum: 0
Recieved packet data is: NcwNCul#7LaW, AUj~5J
Expected checksum: 237192
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 21939
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```
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 240432
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 21939
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 240432 and data NcwNCWl#7Lau, AUj~5J .
B gettin' a packet with segnum 0, and checksum 240432
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 240432 again
A timed out. Sending packet with seqnum 0, and checksum 240432 again
A timed out. Sending packet with seqnum 0, and checksum 240432 again
A: 507890.2909, Layer 5 to 4 Message = df6Vv8Xx:Tz<2|3 ~Aa#
A timed out. Sending packet with seqnum 0, and checksum 2\overline{40432} again
A timed out. Sending packet with seqnum 0, and checksum 240432 again
B gettin' a packet with seqnum 0, and checksum 240432
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A: 508749.3547, Layer 5 to 4 Message = U)Z.~3e8j=UCtHyM~R&W
A timed out. Sending packet with segnum 0, and checksum 240432 again
A: 509460.3708, Layer 5 to 4 Message = V; \sim dI.qV; \sim dV.qV; \sim dI.
A timed out. Sending packet with seqnum 0, and checksum 240432 again
A timed out. Sending packet with seqnum 0, and checksum 240432 again
B gettin' a packet with seqnum 0, and checksum 240432
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 240432
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Ou=dORxAgxU{Dj2X~Gm5
A sending packet with seqnum 1 and checksum 251942 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 251942
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 510161.6397, Layer 4 to 5 Message = Ou=dORxAgxU{Dj2X~Gm5
Setting comp_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1223
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, segnum: 1, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1223
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 251942 and data Ou=dORxAgxU{Dj2X~Gm5.
B gettin' a packet with segnum 1, and checksum 251942
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
```

```
A: 510370.1136, Layer 5 to 4 Message = WNE;2)}tkbXOW<3*~ulc
A timed out. Sending packet with seqnum 1, and checksum 251942 again
B gettin' a packet with seqnum 1, and checksum 251942
Packet Corrupt!
Recieved checksum: 251942, seqnum: 1, acknum: 7667712
Recieved packet data is: 0
Expected checksum: -15083950
Packet Corrupt!
Recieved checksum: 251942, segnum: 1, acknum: 7667712
Recieved packet data is: 0
Expected checksum: -15083950
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 251942 again
B gettin' a packet with seqnum 1, and checksum 251942
Packet Corrupt!
Recieved checksum: 251942, seqnum: 1, acknum: 0
Recieved packet data is: mu=dORxAgxU{Dj2X~GO5
Expected checksum: 241142
Packet Corrupt!
Recieved checksum: 251942, seqnum: 1, acknum: 0
Recieved packet data is: mu=dORxAgxU{Dj2X~GO5
Expected checksum: 241142
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 251942
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: P*b;sP' 8pJ$[5mG~X2j
A sending packet with seqnum 0 and checksum 239461 from the queue
A sending packet to B
A: 511525.6582, Layer 5 to 4 Message = Xaiqy\$, 4 < EMU^Xnv^-)19
A timed out. Sending packet with seqnum 0, and checksum 239461 again
A timed out. Sending packet with seqnum 0, and checksum 239461 again
B gettin' a packet with seqnum 0, and checksum 239461
Packet Corrupt!
Recieved checksum: 239461, seqnum: 0, acknum: 27136
Recieved packet data is: P*b;sP' 8pJ$[5mG~X2
Expected checksum: 142789
Packet Corrupt!
Recieved checksum: 239461, segnum: 0, acknum: 27136
Recieved packet data is: P*b;sP'_8pJ$[5mG~X2
Expected checksum: 142789
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 239461 and data P*b;sP' 8pJ$[5mG~X2j. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 239461
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 512219.5799, Layer 4 to 5 Message = P*b;sP' 8pJ$[5mG~X2j
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
```

```
Sending next data from the queue!
Data being dequeued: Q<(q]HQ|hS>*s J5~jUA
A sending packet with seqnum 1 and checksum 245227 from the queue
A sending packet to B
A: 512623.8938, Layer 5 to 4 Message = YsxIc|8Rl(B[u1Ye~:Tn
A timed out. Sending packet with seqnum 1, and checksum 245227 again
B gettin' a packet with seqnum 1, and checksum 245227
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 512758.6590, Layer 4 to 5 Message = Q<(q]HQ|hS>*s J5~jUA
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1055
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1055
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 245227 and data Q<(q]HQ|hS>*s J5~jUA.
A timed out. Sending packet with segnum 1, and checksum 245227 again
B gettin' a packet with seqnum 1, and checksum 245064
Packet Corrupt!
Recieved checksum: 245064, seqnum: 1, acknum: 0
Recieved packet data is: Q<(q]ëQ|hS>*s J5~jUA
Expected checksum: 241879
Packet Corrupt!
Recieved checksum: 245064, segnum: 1, acknum: 0
Recieved packet data is: Q<(q]ëQ|hS>*s J5~jUA
Expected checksum: 241879
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 245227 again
B gettin' a packet with seqnum 1, and checksum 245227
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
   513886.4421, Layer 5 to 4 Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE
A timed out. Sending packet with segnum 1, and checksum 245227 again
B gettin' a packet with segnum 1, and checksum 245227
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 245227
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ROLIFC?R9630-*'$~{xu
A sending packet with segnum 0 and checksum 237984 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 237984
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 514307.6275, Layer 4 to 5 Message = ROLIFC?R9630-*'$~{xu}
Setting comp seqnum from 0 to 1
```

```
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Sbp~x=LZSw(6ESbp~x=L
A sending packet with seqnum 1 and checksum 255710 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 255710
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 514349.6632, Layer 4 to 5 Message = Sbp~x=LZSw(6ESbp~x=L
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is:
Expected checksum: 7367
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, segnum: 1, acknum: 1
Recieved packet data is:
Expected checksum: 7367
A: no valid ACK, got instead with corruption. Resending packet with
checksum 255710 and data Sbp~x=LZSw(6ESbp~x=L.
A timed out. Sending packet with segnum 1, and checksum 255710 again
A timed out. Sending packet with seqnum 1, and checksum 255710 again
B gettin' a packet with segnum 1, and checksum 255710
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A: 515853.7880, Layer 5 to 4 Message = d:wV5rQ0mL+h2&cB[^<y]
A timed out. Sending packet with seqnum 1, and checksum 255710 again
B gettin' a packet with segnum 1, and checksum 255710
Packet Corrupt!
Recieved checksum: 255710, seqnum: 1, acknum: 1509949440
Recieved packet data is: Sbp~x=L
Expected checksum: 1275318366
Packet Corrupt!
Recieved checksum: 255710, seqnum: 1, acknum: 1509949440
Recieved packet data is: Sbp~x=L
Expected checksum: 1275318366
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 255710 again
B gettin' a packet with segnum 1, and checksum 255710
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 255710 again
B gettin' a packet with seqnum 1, and checksum 255710
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 255710 again
B gettin' a packet with segnum 1, and checksum 255710
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 255710
Not corrupt, but bad sequence number, sending next boi
```

```
Data being dequeued: df6Vv8Xx:Tz<2|3 ~Aa#
A sending packet with seqnum 0 and checksum 230791 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 230791
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 517380.2577, Layer 4 to 5 Message = df6Vv8Xx:Tz<2|3 \sim Aa\#
Setting comp segnum from 0 to 1
A: 517577.9254, Layer 5 to 4 Message = ]M=.|m^N>x\}n O?0~]`P
A timed out. Sending packet with seqnum 0, and checksum 230791 again
B gettin' a packet with seqnum 0, and checksum 230791
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 230791
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: U)Z.`3e8j=UCtHyM~R&W
A sending packet with segnum 1 and checksum 241262 from the queue
A sending packet to B
   518313.3314, Layer 5 to 4 Message = ^fbdfhjlnprtvx3|~#^'
A timed out. Sending packet with segnum 1, and checksum 241262 again
B gettin' a packet with seqnum 1, and checksum 241262
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 518416.2644, Layer 4 to 5 Message = U)Z.`3e8j=UCtHyM~R&W
Setting comp seqnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 241262 again
B gettin' a packet with segnum 1, and checksum 241262
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 241262
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: V; ~dI.qV; ~dV.qV; ~dI.
A sending packet with segnum 0 and checksum 237307 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 237307
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 518942.8911, Layer 4 to 5 Message = V;~dI.qV;~dV.qV;~dI.
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 161, segnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1292
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 161, segnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1292
```

```
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 237307 and data V;~dI.qV;~dV.qV;~dI..
B gettin' a packet with seqnum 0, and checksum 237307
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 237307
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: WNE; 2) }tkbXOW<3*~ulc
A sending packet with segnum 1 and checksum 260256 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 260256
Packet Corrupt!
Recieved checksum: 260256, seqnum: 1, acknum: 0
Recieved packet data is: WNE2;)}tkbXOW<3*~ulc</pre>
Expected checksum: 260337
Packet Corrupt!
Recieved checksum: 260256, seqnum: 1, acknum: 0
Recieved packet data is: WNE2;)}tkbXOW<3*~ulc</pre>
Expected checksum: 260337
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 260256 and data WNE; 2) }tkbXOW<3*~ulc. corrupted from
A to B, resending
A timed out. Sending packet with seqnum 1, and checksum 260256 again
A timed out. Sending packet with seqnum 1, and checksum 260256 again
B gettin' a packet with segnum 1, and checksum 260256
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 520009.4197, Layer 4 to 5 Message = WNE; 2) }tkbXOW<3*~ulc
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 257, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1702
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 257. last_transmitted seqnum: 1
Last sent packet Checksum: 260256
Packet Corrupt!
Recieved checksum: 932, seqnum: 257, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1702
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 260256 and data WNE; 2) }tkbXOW<3*~ulc.
B gettin' a packet with seqnum 1, and checksum 260256
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 260256
```

```
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Xaiqy$,4<EMU^Xnv~)19
A sending packet with segnum 0 and checksum 224553 from the queue
A sending packet to B
A: 520148.9449, Layer 5 to 4 Message = _r(;Ocv,?Sgz0DWk~4H_
A timed out. Sending packet with seqnum 0, and checksum 224553 again
B gettin' a packet with seqnum 0, and checksum 1896049961
Packet Corrupt!
Recieved checksum: 1896049961, segnum: 0, acknum: 0
Recieved packet data is: Xai
Expected checksum: 222745
Packet Corrupt!
Recieved checksum: 1896049961, seqnum: 0, acknum: 0
Recieved packet data is: Xai
Expected checksum: 222745
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 224553 again
A timed out. Sending packet with seqnum 0, and checksum 224553 again
A: 521774.0612, Layer 5 to 4 Message = `'Lq8^%Jo6[#Hm4Y~Fk2
A timed out. Sending packet with seqnum 0, and checksum 224553 again
B gettin' a packet with seqnum 0, and checksum 224553
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 522075.4794, Layer 4 to 5 Message = Xaiqy$,4<EMU^Xnv~)19
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 947
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 947
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 224553 and data Xaiqy$,4<EMU^Xnv~)19.
A timed out. Sending packet with seqnum 0, and checksum 224553 again
A timed out. Sending packet with seqnum 0, and checksum 224553 again
B gettin' a packet with segnum 0, and checksum 224553
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 224553
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: YsxIc|8Rl(B[u1Ye~:Tn
A sending packet with segnum 1 and checksum 256280 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 256280
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 523138.0774, Layer 4 to 5 Message = YsxIc|8R1(B[u1Ye~:Tn
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
```

```
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Z(S~LwEp=i6bxZ(Z~LwE
A sending packet with seqnum 0 and checksum 257313 from the queue
 A sending packet to B
B gettin' a packet with seqnum 0, and checksum 257313
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 523163.3459, Layer 4 to 5 Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE)
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: d:wV5rQ0mL+h2&cB[^<y
A sending packet with seqnum 1 and checksum 233667 from the queue
 A sending packet to B
B gettin' a packet with seqnum 1, and checksum 233667
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 523197.7795, Layer 4 to 5 Message = d:wV5rQ0mL+h2&cB[^{<}y
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ]M=.|m^N>x}n O?0~]`P
A sending packet with segnum 0 and checksum 257422 from the queue
 A sending packet to B
B gettin' a packet with seqnum 0, and checksum 257422
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 523207.6325, Layer 4 to 5 Message = ]M=.|m^N>x\}n O?0~]`P
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ^fbdfhjlnprtvx3|~#^'
A sending packet with seqnum 1 and checksum 255887 from the queue
 A sending packet to B
A: 523487.0284, Layer 5 to 4 Message = aapI!X1hAwP) 80H\sim W0q
A: 523605.7639, Layer 5 to 4 Message = bLb \sim iS = (pZExwbL6 \sim iS = pZExwbL6 \sim iS = pZExwbL
A timed out. Sending packet with seqnum 1, and checksum 255887 again
A timed out. Sending packet with seqnum 1, and checksum 255887 again
B gettin' a packet with seqnum 1, and checksum 255887
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
      524228.6158, Layer 4 to 5 Message = ^fbdfhjlnprtvx3|~#^'
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: _r(;Ocv,?Sgz0DWk~4H_
A sending packet with segnum 0 and checksum 245010 from the queue
 A sending packet to B
A timed out. Sending packet with segnum 0, and checksum 245010 again
B gettin' a packet with seqnum 0, and checksum 245010
Expected packet compared and confirmed
```

```
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 524738.4232, Layer 4 to 5 Message = r(;Ocv,?SgzODWk~4H
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: `'Lg8^%Jo6[#Hm4Y~Fk2
A sending packet with segnum 1 and checksum 230182 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 230182
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 524770.5647, Layer 4 to 5 Message = `'Lq8^%Jo6[#Hm4Y~Fk2
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: aapI!X1hAwP) `8oH~WOg
A sending packet with segnum 0 and checksum 242120 from the queue
A sending packet to B
B gettin' a packet with seqnum 2162688, and checksum 242120
Packet Corrupt!
Recieved checksum: 242120, segnum: 2162688, acknum: 0
Recieved packet data is: aapI
Expected checksum: 6729359
Packet Corrupt!
Recieved checksum: 242120, segnum: 2162688, acknum: 0
Recieved packet data is: aapI
Expected checksum: 6729359
Packet corrupt
Sending bACK a NAK!
A: 525193.9341, Layer 5 to 4 Message = d ZcRNJFB=952-)%~zvr
A timed out. Sending packet with seqnum 0, and checksum 242120 again
A: 525604.3741, Layer 5 to 4 Message = dq~.dIVdq~.;IVdq~.;I
                Layer 5 to 4 Message = e&Ed%ec$Cb#Ba!A`~? }
A: 525687.9422,
A timed out. Sending packet with seqnum 0, and checksum 242120 again
B gettin' a packet with seqnum 0, and checksum 242120
Packet Corrupt!
Recieved checksum: 242120, seqnum: 0, acknum: 0
Recieved packet data is: aapI!X1h8wP) `AoH~W0g
Expected checksum: 243155
Packet Corrupt!
Recieved checksum: 242120, segnum: 0, acknum: 0
Recieved packet data is: aapI!X1h8wP) `AoH~W0g
Expected checksum: 243155
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 242120 and data aapI!X1hAwP)`80H~WOg. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 242120
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 525849.2634, Layer 4 to 5 Message = aapI!X1hAwP)`80H~W0g
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
```

```
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: bLb~iS=(pZExwbL6~iS=
A sending packet with seqnum 1 and checksum 253129 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 253129
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 525891.0736, Layer 4 to 5 Message = bLb \sim iS = (pZExwbL6 \sim iS =
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 13796
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 13796
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 253129 and data bLb~iS=(pZExwbL6~iS=.
B gettin' a packet with segnum 1, and checksum 253129
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A: 526216.9507, Layer 5 to 4 Message = f8i;1>fBrEuHxK{N~Q$T}
A timed out. Sending packet with seqnum 1, and checksum 253129 again
A timed out. Sending packet with seqnum 1, and checksum 253129 again
B gettin' a packet with seqnum 1, and checksum 253129
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 253129 again
B gettin' a packet with segnum 1, and checksum 253129
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 253129
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d ZcRNJFB=952-)%~zvr
A sending packet with segnum 0 and checksum 241843 from the queue
A sending packet to B
A: 527430.5225, Layer 5 to 4 Message = gfxqU9{gD(jN2t3 < \sim cG+)}
A timed out. Sending packet with seqnum 0, and checksum 241843 again
A: 528081.4421, Layer 5 to 4 Message = h^SI>4*}hi TJ?5+~tj`
A: 528363.0514, Layer 5 to 4 Message = ipw~(x6=EiSZbipw~(x6
A timed out. Sending packet with seqnum 0, and checksum 241843 again
B gettin' a packet with seqnum 0, and checksum 241843
Packet Corrupt!
Recieved checksum: 241843, segnum: 0, acknum: 0
Recieved packet data is: c ZbRNJFB=953-)%~zvr
Expected checksum: 241995
Packet Corrupt!
Recieved checksum: 241843, seqnum: 0, acknum: 0
Recieved packet data is: c ZbRNJFB=953-)%~zvr
Expected checksum: 241995
Packet corrupt
```

```
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 2136
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 2136
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 241843 and data d_ZcRNJFB=952-)%~zvr.
B gettin' a packet with segnum 0, and checksum 241843
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 528461.4082, Layer 4 to 5 Message = d ZcRNJFB=952-)%~zvr
Setting comp_seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 241843 again
B gettin' a packet with seqnum 0, and checksum 241843
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: -1426063360
Recieved packet data is: NAK
Expected checksum: -1442839637
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 241843
Packet Corrupt!
Recieved checksum: 768, segnum: 1, acknum: -1426063360
Recieved packet data is: NAK
Expected checksum: -1442839637
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 241843 and data d_ZcRNJFB=952-)%~zvr.
B gettin' a packet with seqnum 0, and checksum 241843
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 241843
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dq~.dIVdq~.;IVdq~.;I
A sending packet with segnum 1 and checksum 236343 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 236343
Packet Corrupt!
Recieved checksum: 236343, segnum: 1, acknum: 0
Recieved packet data is: dq~.dIVdq~.;.Vdq~I;I
Expected checksum: 240528
Packet Corrupt!
Recieved checksum: 236343, seqnum: 1, acknum: 0
Recieved packet data is: dq~.dIVdq~.;.Vdq~I;I
Expected checksum: 240528
Packet corrupt
```

```
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 24564
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 24564
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 236343 and data dq~.dIVdq~.;IVdq~.;I.
B gettin' a packet with seqnum 1, and checksum 236343
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 529024.4780, Layer 4 to 5 Message = dq~.dIVdq~.;IVdq~.;I
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: e&Ed%ec$Cb#Ba!A`~? }
A sending packet with segnum 0 and checksum 246262 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 246262
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 529051.0833, Layer 4 to 5 Message = e&Ed%ec$Cb#Ba!A`~? }
Setting comp segnum from 0 to 1
A: 529370.6928, Layer 5 to 4 Message = d%=Vo*C[txja24Mf~9Rk
A timed out. Sending packet with segnum 0, and checksum 246262 again
B gettin' a packet with segnum 0, and checksum 246262
Packet Corrupt!
Recieved checksum: 246262, seqnum: 0, acknum: 0
Recieved packet data is: e&Ed%ec$Cb#Ba}A`~?!
Expected checksum: 227494
Packet Corrupt!
Recieved checksum: 246262, seqnum: 0, acknum: 0
Recieved packet data is: e&Ed%ec$Cb#Ba}A`~?!
Expected checksum: 227494
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 246262 again
A: 530132.7269, Layer 5 to 4 Message = k7b.X\%OyFp<k3^*T\sim KuB
A: 530438.6838, Layer 5 to 4 Message = 1J(dB)[9uS1ml)eC^{-}:v
A timed out. Sending packet with seqnum 0, and checksum 246262 again
A: 530656.6039, Layer 5 to 4 Message = m]L;+xhWG6&scmB1~n^M
A timed out. Sending packet with seqnum 0, and checksum 246262 again
B gettin' a packet with seqnum 0, and checksum 246262
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 246262
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: f8i;l>fBrEuHxK{N~Q$T
```

```
A sending packet with seqnum 1 and checksum 248831 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 248831
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 531073.0868, Layer 4 to 5 Message = f8i;1>fBrEuHxK{N~Q$T
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 75, acknum: 1
Recieved packet data is: AC
Expected checksum: 488
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 75. last transmitted seqnum: 1
Last sent packet Checksum: 248831
Packet Corrupt!
Recieved checksum: 932, seqnum: 75, acknum: 1
Recieved packet data is: AC
Expected checksum: 488
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 248831 and data f8i; 1>fBrEuHxK{N~Q$T.
B gettin' a packet with segnum 1, and checksum 248831
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 248831
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: gfxqU9{gD(jN2t3<~cG+
A sending packet with segnum 0 and checksum 223026 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 223026
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 531121.1203, Layer 4 to 5 Message = gfxqU9{gD(jN2t3<\sim cG+)}
Setting comp seqnum from 0 to 1
A timed out. Sending packet with segnum 0, and checksum 223026 again
B gettin' a packet with segnum 0, and checksum 223026
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A: 531915.0060, Layer 5 to 4 Message = nopqrstuvwxyz\{n\}~!#$
A: 531977.3119, Layer 5 to 4 Message = o$6I[n#5HZm!4GYo~3FX
A timed out. Sending packet with seqnum 0, and checksum 223026 again
B gettin' a packet with seqnum 0, and checksum 223079
Packet Corrupt!
Recieved checksum: 223079, seqnum: 0, acknum: 0
Recieved packet data is: 2fxqU9{gD(jN2t3<~cG+
Expected checksum: 222973
Packet Corrupt!
Recieved checksum: 223079, seqnum: 0, acknum: 0
Recieved packet data is: 2fxqU9{gD(jN2t3<~cG+
Expected checksum: 222973
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
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```
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 11206656
Recieved packet data is: NAK
Expected checksum: -22412373
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 223026
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 11206656
Recieved packet data is: NAK
Expected checksum: -22412373
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 223026 and data gfxqU9{gD(jN2t3<\sim cG+.)}
A timed out. Sending packet with seqnum 0, and checksum 223026 again
B gettin' a packet with seqnum 0, and checksum 223026
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 5111808
Recieved packet data is:
Expected checksum: -10222755
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 223026
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 5111808
Recieved packet data is:
Expected checksum: -10222755
A: no valid ACK, got instead with corruption. Resending packet with
checksum 223026 and data gfxqU9{gD(jN2t3<~cG+.
B gettin' a packet with seqnum 0, and checksum 223026
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
A: 533153.3608, Layer 5 to 4 Message = pfZ~EixSw=b(Lp3ZpEix
A timed out. Sending packet with seqnum 0, and checksum 223026 again
B gettin' a packet with seqnum 0, and checksum 223026
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1239
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 223026
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1239
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 223026 and data gfxqU9{gD(jN2t3<~cG+.
B gettin' a packet with segnum 0, and checksum 223026
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A: 533433.2923, Layer 5 to 4 Message = dI~V.d;qI~V.2;qI~q.d
```

```
A timed out. Sending packet with seqnum 0, and checksum 223026 again
B gettin' a packet with seqnum 0, and checksum 223026
Packet Corrupt!
Recieved checksum: 223026, segnum: 0, acknum: 28928
Recieved packet data is: gfx
Expected checksum: 163362
Packet Corrupt!
Recieved checksum: 223026, segnum: 0, acknum: 28928
Recieved packet data is: qfx
Expected checksum: 163362
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 223026 again
B gettin' a packet with segnum 0, and checksum 223026
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 16640
Recieved packet data is: N
Expected checksum: -32601
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 223026
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 16640
Recieved packet data is: N
Expected checksum: -32601
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 223026 and data gfxqU9{gD(jN2t3<~cG+.
B gettin' a packet with segnum 0, and checksum 223026
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
A: 534631.7932, Layer 5 to 4 Message = r[E.u H1xbK4{eN7~hr:
A timed out. Sending packet with seqnum 0, and checksum 223026 again
A timed out. Sending packet with seqnum 0, and checksum 223026 again
A timed out. Sending packet with seqnum 0, and checksum 223026 again
B gettin' a packet with seqnum 0, and checksum 223026
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 223026 again
A: 536297.6786, Layer 5 to 4 Message = snid YTOJE?:50+\&~yts
A timed out. Sending packet with seqnum 0, and checksum 223026 again
B gettin' a packet with seqnum 0, and checksum 223026
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1446
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 223026
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
```

Expected checksum: 1446

```
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 223026 and data gfxqU9{gD(jN2t3<\sim cG+.)}
B gettin' a packet with seqnum 0, and checksum 223026
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 223026
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: h^SI>4*}hi TJ?5+~tj`
A sending packet with seqnum 1 and checksum 256767 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 256767
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   536745.1707, Layer 4 to 5 Message = h^SI>4*}hi TJ?5+~tj`
Setting comp segnum from 1 to 0
A: 537050.0367, Layer 5 to 4 Message = t#x; HTamy (4AMYfr~-9F
A: 537119.9990, Layer 5 to 4 Message = uuSq10m-Ki)Ge%Ca~>]z
A timed out. Sending packet with seqnum 1, and checksum 256767 again
A timed out. Sending packet with segnum 1, and checksum 256767 again
B gettin' a packet with seqnum 1, and checksum 221439
Packet Corrupt!
Recieved checksum: 221439, seqnum: 1, acknum: 0
Recieved packet data is: h^SI>4*}hi TJ?5+~tjê
Expected checksum: 209567
Packet Corrupt!
Recieved checksum: 221439, segnum: 1, acknum: 0
Recieved packet data is: h^SI>4*}hi TJ?5+~tjê
Expected checksum: 209567
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1368
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 256767
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1368
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 256767 and data h^SI>4*hi TJ?5+~tj`.
B gettin' a packet with seqnum 1, and checksum 256767
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 256767
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ipw~(x6=EiSZbipw~(x6
```

```
A sending packet with seqnum 0 and checksum 261625 from the queue
 A sending packet to B
A timed out. Sending packet with segnum 0, and checksum 261625 again
B gettin' a packet with seqnum 0, and checksum 261625
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 538311.3861, Layer 4 to 5 Message = ipw~(x6=EiSZbipw~(x6
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: d%=Vo*C[txja24Mf~9Rk
A sending packet with segnum 1 and checksum 253046 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 253046
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 538338.4984, Layer 4 to 5 Message = d%=Vo*C[txja24Mf~9Rk
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, segnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1073
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 253046
Packet Corrupt!
Recieved checksum: 932, segnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1073
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 253046 and data d%=Vo*C[txja24Mf~9Rk.
B gettin' a packet with seqnum 1, and checksum 253046
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 253046
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: k7b.X%OyFp<k3^*T~KuB
A sending packet with seqnum 0 and checksum 243901 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 243901
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 538363.1487, Layer 4 to 5 Message = k7b.X%OyFp<k3^*T~KuB
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: lJ(dB)[9uS1ml)eC~]:v
A sending packet with segnum 1 and checksum 256798 from the queue
 A sending packet to B
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```
B gettin' a packet with seqnum 1, and checksum 256798
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
\ensuremath{\mathtt{B}} sending message up to layer 5 and updating newest recieved data
B: 538395.9188, Layer 4 to 5 Message = 1J(dB)[9uS1ml)eC^{-}:v
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 965
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 256798
Packet Corrupt!
Recieved checksum: 932, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 965
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 256798 and data lJ(dB)[9uS1ml)eC~]:v.
B gettin' a packet with segnum 1, and checksum 256798
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 256798 again
A: 538977.8061, Layer 5 to 4 Message = vHvIxJyKzL\{M|N\}O\sim P!Q
A timed out. Sending packet with seqnum 1, and checksum 256798 again
B gettin' a packet with seqnum 1, and checksum 256798
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 256798 again
B gettin' a packet with segnum 1, and checksum 256798
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 7176
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 256798
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 7176
A: no valid ACK, got instead with corruption. Resending packet with
checksum 256798 and data lJ(dB)[9uS1ml)eC^{-}:v.
B gettin' a packet with seqnum 1, and checksum 256798
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 256798
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: m]L;+xhWG6&scmB1~n^M
A sending packet with seqnum 0 and checksum 252677 from the queue
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A sending packet to B
B gettin' a packet with seqnum 0, and checksum 252677
Packet Corrupt!
Recieved checksum: 252677, seqnum: 0, acknum: 0
Recieved packet data is: m]L;+x~WG6&scmB1hn^M
Expected checksum: 247397
Packet Corrupt!
Recieved checksum: 252677, segnum: 0, acknum: 0
Recieved packet data is: m]L;+x~WG6&scmB1hn^M
Expected checksum: 247397
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NKA
Expected checksum: 886
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NKA
Expected checksum: 886
A: no valid ACK, got NKA instead with corruption. Resending packet with
checksum 252677 and data m]L;+xhWG6&scmB1~n^M.
B gettin' a packet with segnum 0, and checksum 252677
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 540007.5331, Layer 4 to 5 Message = m]L;+xhWG6&scmB1~n^M
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: nopqrstuvwxyz{n}~!#$
A sending packet with segnum 1 and checksum 252477 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 252477
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   540018.9043, Layer 4 to 5 Message = nopgrstuvwxyz\{n\}~!#$
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: o$6I[n#5HZm!4GYo~3FX
A sending packet with seqnum 0 and checksum 230500 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 230500 again
A: 540849.3294, Layer 5 to 4 Message = wZ=wbE(iLxpS6wZ=\sim bE(
A timed out. Sending packet with seqnum 0, and checksum 230500 again
B gettin' a packet with segnum 0, and checksum 230500
Packet Corrupt!
Recieved checksum: 230500, segnum: 0, acknum: 0
Recieved packet data is: o$6I[n#5HZm!4G~oY3FX
Expected checksum: 228132
Packet Corrupt!
Recieved checksum: 230500, seqnum: 0, acknum: 0
Recieved packet data is: o$6I[n#5HZm!4G~oY3FX
Expected checksum: 228132
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Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 230500 and data o$6I[n#5HZm!4GYo~3FX. corrupted from
A to B, resending
A: 541188.6299, Layer 5 to 4 Message = dmbVx?4) {peY2C7,~sh]
A: 541422.8766, Layer 5 to 4 Message = yf(.4yAGMSY`fl3x~'-3
A timed out. Sending packet with segnum 0, and checksum 230500 again
A timed out. Sending packet with segnum 0, and checksum 230500 again
B gettin' a packet with segnum 0, and checksum 230500
Packet Corrupt!
Recieved checksum: 230500, seqnum: 0, acknum: 0
Recieved packet data is: o$6Y[n#5HZm!4GIo~3FX
Expected checksum: 227156
Packet Corrupt!
Recieved checksum: 230500, seqnum: 0, acknum: 0
Recieved packet data is: o$6Y[n#5HZm!4GIo~3FX
Expected checksum: 227156
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 230500 and data o$6I[n#5HZm!4GYo~3FX. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 230500
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 542102.6114, Layer 4 to 5 Message = 0$6I[n#5HZm!4GYo~3FX]
Setting comp segnum from 0 to 1
A: 542406.0708, Layer 5 to 4 Message = z4Ld\{5ze|6Nf\}70g\sim8Ph
A timed out. Sending packet with segnum 0, and checksum 230500 again
A timed out. Sending packet with seqnum 0, and checksum 230500 again
B gettin' a packet with segnum 0, and checksum 230500
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 230500
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: pfZ~EixSw=b(Lp3ZpEix
A sending packet with seqnum 1 and checksum 263266 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 263266 again
B gettin' a packet with seqnum 1, and checksum 263266
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   543640.6026, Layer 4 to 5 Message = pfZ~EixSw=b(Lp3ZpEix
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dI~V.d;qI~V.2;qI~q.d
A sending packet with segnum 0 and checksum 247000 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 247000
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Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data B: 543669.2837, Layer 4 to 5 Message = dI\sim V.d;qI\sim V.2;qI\sim q.d
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, segnum: 0, acknum: 1090519041
Recieved packet data is:
Expected checksum: 2113930080
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1090519041
Recieved packet data is:
Expected checksum: 2113930080
A: no valid ACK, got instead with corruption. Resending packet with
checksum 247000 and data dI~V.d;qI~V.2;qI~q.d.
A timed out. Sending packet with seqnum 0, and checksum 247000 again
B gettin' a packet with segnum 0, and checksum 247000
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A: 544244.3581, Layer 5 to 4 Message = {Gp;e0Y{NwCl7a,U~Js>}}
   544566.0497, Layer 5 to 4 Message = |Y6qN+fC|Z7rO,gD~[8s
A timed out. Sending packet with segnum 0, and checksum 247000 again
B gettin' a packet with seqnum 0, and checksum 247000
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 247000
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: r[E.u H1xbK4{eN7~hr:
A sending packet with segnum 1 and checksum 257530 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 257530
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 544748.8080, Layer 4 to 5 Message = r[E.u H1xbK4{eN7~hr:
Setting comp segnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 257530 again
A: 545236.6740, Layer 5 to 4 Message = }1ZI7&raO}, xgUD2~m[J
A timed out. Sending packet with segnum 1, and checksum 257530 again
B gettin' a packet with seqnum 1, and checksum 257530
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 257530 again
B gettin' a packet with seqnum 1, and checksum 257530
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 257530
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: snid YTOJE?:50+&~yts
A sending packet with segnum 0 and checksum 247905 from the queue
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A sending packet to B
B gettin' a packet with seqnum 0, and checksum 247905
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 546291.1975, Layer 4 to 5 Message = snid YTOJE?:50+&~yts
Setting comp seqnum from 0 to 1
A timed out. Sending packet with segnum 0, and checksum 247905 again
B gettin' a packet with segnum 0, and checksum 247905
Packet Corrupt!
Recieved checksum: 247905, seqnum: 0, acknum: 7602176
Recieved packet data is: snid YTOJE?:50+&~y
Expected checksum: -14998323
Packet Corrupt!
Recieved checksum: 247905, segnum: 0, acknum: 7602176
Recieved packet data is: snid YTOJE?:50+&~y
Expected checksum: -14998323
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 247905
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: t#x;HTamy(4AMYfr~-9F
A sending packet with segnum 1 and checksum 230374 from the queue
A sending packet to B
A: 547192.8244, Layer 5 to 4 Message = !3EVhy->Pbs'2J[m~2DU]
A: 547250.5987, Layer 5 to 4 Message = ##i.Qt9]!Eh-Ps8[~Dq,
A timed out. Sending packet with segnum 1, and checksum 230374 again
B gettin' a packet with segnum 1, and checksum 230374
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 547324.7949, Layer 4 to 5 Message = t #x; HTamy (4AMYfr~-9F
Setting comp_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: uuSq10m-Ki)Ge%Ca~>]z
A sending packet with segnum 0 and checksum 250216 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 250216
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 547354.8929, Layer 4 to 5 Message = uuSq10m-Ki)Ge%Ca~>]z
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 250216 again
B gettin' a packet with segnum 24832, and checksum 250216
Packet Corrupt!
Recieved checksum: 250216, segnum: 24832, acknum: 0
Recieved packet data is: uuSq10m-Ki)Ge%C
Expected checksum: 299880
Packet Corrupt!
Recieved checksum: 250216, segnum: 24832, acknum: 0
Recieved packet data is: uuSq10m-Ki)Ge%C
Expected checksum: 299880
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Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 250216
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: vHvIxJyKzL{M|N}O~P!Q
A sending packet with segnum 1 and checksum 253648 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 253648
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   547853.2634, Layer 4 to 5 Message = vHvIxJyKzL{M|N}O~P!Q
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: wZ=wbE(iLxpS6wZ=~bE(
A sending packet with segnum 0 and checksum 237520 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 237520
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 547876.1513, Layer 4 to 5 Message = wZ=wbE(iLxpS6wZ=\sim bE(
Setting comp_seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dmbVx?4) {peY2C7,~sh]
A sending packet with segnum 1 and checksum 252999 from the queue
A sending packet to B
   548264.6796, Layer 5 to 4 Message = $X$d:oFzQ(]3h>sJ~U,a
A timed out. Sending packet with seqnum 1, and checksum 252999 again
B gettin' a packet with seqnum 1, and checksum 2114182215
Packet Corrupt!
Recieved checksum: 2114182215, seqnum: 1, acknum: 0
Recieved packet data is: bmbVx?4) {peY3C7,
Expected checksum: 216752
Packet Corrupt!
Recieved checksum: 2114182215, seqnum: 1, acknum: 0
Recieved packet data is: bmbVx?4) {peY3C7,
Expected checksum: 216752
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 252999 and data dmbVx?4) {peY2C7,~sh]. corrupted from
A to B, resending
A timed out. Sending packet with segnum 1, and checksum 252999 again
B gettin' a packet with seqnum 1, and checksum 252999
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 548924.3923, Layer 4 to 5 Message = dmbVx?4) {peY2C7, ~sh}
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
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Packet Corrupt!
Recieved checksum: 932, seqnum: 4915201, acknum: 1
Recieved packet data is: AC
Expected checksum: 14745857
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 4915201. last transmitted seqnum: 1
Last sent packet Checksum: 252999
Packet Corrupt!
Recieved checksum: 932, seqnum: 4915201, acknum: 1
Recieved packet data is: AC
Expected checksum: 14745857
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 252999 and data dmbVx?4) {peY2C7, ~sh].
B gettin' a packet with seqnum 1, and checksum 252999
Packet Corrupt!
Recieved checksum: 252999, seqnum: 1, acknum: 104
Recieved packet data is: bmbVx?4) {peY3C7,~s
Expected checksum: 215414
Packet Corrupt!
Recieved checksum: 252999, segnum: 1, acknum: 104
Recieved packet data is: bmbVx?4) {peY3C7,~s
Expected checksum: 215414
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 252999
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: yf(.4yAGMSY`fl3x~'-3
A sending packet with segnum 0 and checksum 220359 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 220359
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 548971.0016, Layer 4 to 5 Message = yf(.4yAGMSY`fl3x~'-3
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 220359 again
B gettin' a packet with segnum 0, and checksum 220359
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 220359
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: z4Ld{5ze|6Nf}70g~8Ph
A sending packet with seqnum 1 and checksum 260621 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 260621
Packet Corrupt!
Recieved checksum: 260621, seqnum: 1, acknum: 1694498816
Recieved packet data is: z4Ld{5z
Expected checksum: 906223821
Packet Corrupt!
Recieved checksum: 260621, seqnum: 1, acknum: 1694498816
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Recieved packet data is: z4Ld{5z
Expected checksum: 906223821
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 260621 and data z4Ld{5ze|6Nf}70g~8Ph. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 260621
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 549487.5320, Layer 4 to 5 Message = z4Ld{5ze|6Nf}70q~8Ph
Setting comp\_seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 260621 again
B gettin' a packet with seqnum 1, and checksum 260621
Packet Corrupt!
Recieved checksum: 260621, seqnum: 1, acknum: 122
Recieved packet data is: z4Ld{5
Expected checksum: 254399
Packet Corrupt!
Recieved checksum: 260621, segnum: 1, acknum: 122
Recieved packet data is: z4Ld{5
Expected checksum: 254399
Packet corrupt
Sending bACK a NAK!
A: 550197.4360, Layer 5 to 4 Message = %fS%$jR:#iQ9!h38~g07
A timed out. Sending packet with seqnum 1, and checksum 260621 again
B gettin' a packet with seqnum 1, and checksum 260621
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 260621 again
B gettin' a packet with seqnum 1, and checksum 260621
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 260621
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: {Gp;e0Y{NwCl7a,U~Js>
A sending packet with segnum 0 and checksum 247317 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 247317
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   551021.9448, Layer 4 to 5 Message = {Gp;e0Y{NwCl7a,U~Js>
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: |Y6qN+fC|Z7rO,gD~[8s
A sending packet with seqnum 1 and checksum 252271 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 252271 again
B gettin' a packet with segnum 1, and checksum 252271
Expected packet compared and confirmed
```

B Sending bACK an ACK with checksum: 932

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B sending message up to layer 5 and updating newest recieved data
B: 551535.9821, Layer 4 to 5 Message = |Y6qN+fC|Z7rO,qD^{-}[8s]
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: }1ZI7&raO},xgUD2~m[J
A sending packet with segnum 0 and checksum 254846 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 254846
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 551556.4889, Layer 4 to 5 Message = }1ZI7&raO},xgUD2~m[J
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 254846 again
B gettin' a packet with seqnum 0, and checksum 254846
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 769, seqnum: 171, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1449
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 171. last transmitted seqnum: 0
Last sent packet Checksum: 254846
Packet Corrupt!
Recieved checksum: 769, segnum: 171, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1449
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 254846 and data }1ZI7&raO},xgUD2~m[J.
A timed out. Sending packet with seqnum 0, and checksum 254846 again
B gettin' a packet with seqnum 0, and checksum 254846
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
   552608.9504, Layer 5 to 4 Message = '2=IT'kv$x:FQ]hs~,7C
A timed out. Sending packet with seqnum 0, and checksum 254846 again
B gettin' a packet with segnum 0, and checksum 254846
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 254846
Not corrupt, but bad sequence number, sending next boi
A sending packet with segnum 1 and checksum 361546 from the queue
A sending packet to B
A: 553358.6304, Layer 5 to 4 Message = (Eb\sim=Z(6SpxLi(Eb\sim=Zw))
A timed out. Sending packet with seqnum 1, and checksum 361546 again
A: 554067.8743, Layer 5 to 4 Message = dW(V'U\&)%S$R2Q!P\simON
A timed out. Sending packet with seqnum 1, and checksum 361546 again
A timed out. Sending packet with seqnum 1, and checksum 361546 again
B gettin' a packet with segnum 1, and checksum 361546
Expected packet compared and confirmed
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B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: -6520
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, segnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: -6520
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 361546 and data ~~~~~~~~.
B gettin' a packet with seqnum 1, and checksum 361546
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 361546
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: !3EVhy->Pbs'2J[m~2DU
A sending packet with segnum 0 and checksum 233592 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 233592
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   554645.2466, Layer 4 to 5 Message = !3EVhy->Pbs'2J[m~2DU
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 233592 again
B gettin' a packet with seqnum 0, and checksum 233592
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 233592
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ##i.Qt9]!Eh-Ps8[~Dg,
A sending packet with seqnum 1 and checksum 230550 from the queue
A sending packet to B
A: 555509.5479, Layer 5 to 4 Message = *jL.nP2r*6vX:z]>~aC%
A timed out. Sending packet with seqnum 1, and checksum 230550 again
B gettin' a packet with segnum 1, and checksum 230550
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   555674.9642, Layer 4 to 5 Message = ##i.Qt9]!Eh-Ps8[~Dg,
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: $X$d:oFzQ(]3h>sJ~U,a
A sending packet with segnum 0 and checksum 241262 from the queue
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A sending packet to B
B gettin' a packet with seqnum 0, and checksum 241262
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   555705.4386, Layer 4 to 5 Message = $X$d:oFzQ(]3h>sJ~U,a
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: %fS%$jR:#iQ9!h38~gO7
A sending packet with segnum 1 and checksum 217577 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 217577 again
B gettin' a packet with seqnum 1, and checksum 217577
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   556233.6392, Layer 4 to 5 Message = %fS%$jR:#iQ9!h38~g07
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: & \ wq&e XRLF?93-'~xrl
A sending packet with seqnum 0 and checksum 249383 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 249383 again
B gettin' a packet with segnum 0, and checksum 249383
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   556746.0031, Layer 4 to 5 Message = & \wq&e XRLF?93-'~xrl
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: '2=IT'kv$x:FQ]hs~,7C
A sending packet with seqnum 1 and checksum 232277 from the queue
A sending packet to B
B gettin' a packet with seqnum 58, and checksum 232277
Packet Corrupt!
Recieved checksum: 232277, segnum: 58, acknum: 0
Recieved packet data is: '2=IT'kv$x FQ]hs~,7C
Expected checksum: 225551
Packet Corrupt!
Recieved checksum: 232277, seqnum: 58, acknum: 0
Recieved packet data is: '2=IT'kv$x FQ]hs~,7C
Expected checksum: 225551
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 78
Recieved packet data is:
Expected checksum: 705
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 78
Recieved packet data is:
Expected checksum: 705
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```
A: no valid ACK, got instead with corruption. Resending packet with
checksum 232277 and data '2=IT'kvx:FQhs~,7C.
A timed out. Sending packet with segnum 1, and checksum 232277 again
B gettin' a packet with seqnum 1, and checksum 232277
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 557327.7246, Layer 4 to 5 Message = '2=IT'kv$x:FQ]hs~,7C
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 164, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1799
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 164, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1799
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 232277 and data '2=IT'kvx:FQhs~,7C.
B gettin' a packet with segnum 1, and checksum 232277
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A: 557447.5306, Layer 5 to 4 Message = +|pdWK>2&+k RF9-~rfY
A timed out. Sending packet with seqnum 1, and checksum 232277 again
B gettin' a packet with segnum 1, and checksum 232277
Packet Corrupt!
Recieved checksum: 232277, seqnum: 1, acknum: 2555904
Recieved packet data is: '2=IT
Expected checksum: -4880935
Packet Corrupt!
Recieved checksum: 232277, seqnum: 1, acknum: 2555904
Recieved packet data is: '2=IT
Expected checksum: -4880935
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 3
Recieved packet data is: NAK
Expected checksum: 930
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 232277
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 3
Recieved packet data is: NAK
Expected checksum: 930
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 232277 and data '2=IT'kv$x:FQ]hs~,7C.
B gettin' a packet with seqnum 1, and checksum 232277
Packet Corrupt!
Recieved checksum: 232277, seqnum: 1, acknum: 0
Recieved packet data is: '2=:T'kv$xIFQ]hs~,7C
Expected checksum: 233852
Packet Corrupt!
Recieved checksum: 232277, seqnum: 1, acknum: 0
Recieved packet data is: '2=:T'kv$xIFQ]hs~,7C
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Expected checksum: 233852
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 232277 again
B gettin' a packet with seqnum 1, and checksum 232277
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 232277
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: (Eb~=Z(6SpxLi(Eb~=Zw
A sending packet with seqnum 0 and checksum 259171 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 259171
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   558381.8656, Layer 4 to 5 Message = (Eb~=Z(6SpxLi(Eb~=Zw
Setting comp_seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 259171 again
B gettin' a packet with segnum 0, and checksum 259171
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 196608
Recieved packet data is: NAK
Expected checksum: -392277
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 259171
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 196608
Recieved packet data is: NAK
Expected checksum: -392277
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 259171 and data (Eb~=Z(6SpxLi(Eb~=Zw.
B gettin' a packet with segnum 0, and checksum 259171
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
A: 559247.9596, Layer 5 to 4 Message = ,16;AFKPUZ,ejoty~&+0
A timed out. Sending packet with seqnum 0, and checksum 259171 again
B gettin' a packet with seqnum 0, and checksum 259171
Packet Corrupt!
Recieved checksum: 259171, seqnum: 0, acknum: 0
Recieved packet data is: (Eb~=Z(6SpxLi=Eb~(Zw
Expected checksum: 256483
Packet Corrupt!
Recieved checksum: 259171, segnum: 0, acknum: 0
Recieved packet data is: (Eb~=Z(6SpxLi=Eb~(Zw
Expected checksum: 256483
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
```

```
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 259171
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dW(V'U&)%S$R2Q!P~O}N
A sending packet with seqnum 1 and checksum 228658 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 228658 again
   559954.2019, Laver 5 to 4 Message = -DZg*AWn'=T-\$:Oh~7Ne
A timed out. Sending packet with seqnum 1, and checksum 228658 again
A timed out. Sending packet with seqnum 1, and checksum 228658 again
B gettin' a packet with segnum 1, and checksum 228658
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   560908.3286, Layer 4 to 5 Message = dW(V'U&)%S$R2Q!P~O}N
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: *jL.nP2r*6vX:z]>~aC%
A sending packet with segnum 0 and checksum 230277 from the queue
A sending packet to B
   561050.9197, Layer 5 to 4 Message = .f~Iq;d.V~Iq.d3V~Iq;
A:
   561151.9368, Layer 5 to 4 Message = xiE~Z6pL(b=wSxiE~Z6p
A timed out. Sending packet with segnum 0, and checksum 230277 again
B gettin' a packet with seqnum 0, and checksum 230277
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 561434.6344, Layer 4 to 5 Message = *jL.nP2r*6vX:z]>~aC%
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: +|pdWK>2&+k RF9-~rfY
A sending packet with segnum 1 and checksum 245886 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 245886 again
B gettin' a packet with seqnum 1, and checksum 245886
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 561958.7111, Layer 4 to 5 Message = +|pdWK>2&+k RF9-~rfY
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ,16;AFKPUZ,ejoty~&+0
A sending packet with segnum 0 and checksum 230481 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 230481
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 561974.6462, Layer 4 to 5 Message = ,16;AFKPUZ,ejoty~&+0
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: -DZq*AWn'=T-$:Qh~7Ne
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A sending packet with seqnum 1 and checksum 228550 from the queue
A sending packet to B
B gettin' a packet with seqnum 12976129, and checksum 228352
Packet Corrupt!
Recieved checksum: 228352, seqnum: 12976129, acknum: 0
Recieved packet data is: -DZq*AWn'=T-$:Qh~7Ne
Expected checksum: 39156934
Packet Corrupt!
Recieved checksum: 228352, segnum: 12976129, acknum: 0
Recieved packet data is: -DZg*AWn'=T-$:Qh~7Ne
Expected checksum: 39156934
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 8661
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 8661
A: no valid ACK, got instead with corruption. Resending packet with
checksum 228550 and data -DZq*AWn'=T-$:Qh~7Ne.
B gettin' a packet with seqnum 1, and checksum 228550
Packet Corrupt!
Recieved checksum: 228550, segnum: 1, acknum: 2949120
Recieved packet data is: -DZq*AWn'=T
Expected checksum: -5676170
Packet Corrupt!
Recieved checksum: 228550, segnum: 1, acknum: 2949120
Recieved packet data is: -DZq*AWn'=T
Expected checksum: -5676170
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 228550 again
B gettin' a packet with seqnum 1, and checksum 228550
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   562517.0962, Layer 4 to 5 Message = -DZg*AWn'=T-$:Qh~7Ne
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: .f~Iq;d.V~Iq.d3V~Iq;
A sending packet with seqnum 0 and checksum 245467 from the queue
A sending packet to B
   562946.0523, Layer 5 to 4 Message = d{iVD1|jWE2}2X03~1YG
A timed out. Sending packet with seqnum 0, and checksum 245467 again
A timed out. Sending packet with segnum 0, and checksum 245467 again
A timed out. Sending packet with segnum 0, and checksum 245467 again
B gettin' a packet with seqnum 0, and checksum 245467
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 564028.1938, Layer 4 to 5 Message = .f \sim Iq; d.V \sim Iq. d3V \sim Iq;
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
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Packet Corrupt!
Recieved checksum: 161, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1361
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 161, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1361
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 245467 and data .f~Iq;d.V~Iq.d3V~Iq;.
A: 564457.2090, Layer 5 to 4 Message = 10x.-,+*) ('&%$#1~}|{
A timed out. Sending packet with seqnum 0, and checksum 245467 again
B gettin' a packet with segnum 0, and checksum 245467
Packet Corrupt!
Recieved checksum: 245467, seqnum: 0, acknum: 0
Recieved packet data is: .fqIq;d.V~I~.d3V~Iq;
Expected checksum: 247222
Packet Corrupt!
Recieved checksum: 245467, seqnum: 0, acknum: 0
Recieved packet data is: .fqIq;d.V~I~.d3V~Iq;
Expected checksum: 247222
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 245467
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: xiE~Z6pL(b=wSxiE~Z6p
A sending packet with segnum 1 and checksum 263910 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 263910
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 564589.9254, Layer 4 to 5 Message = xiE~Z6pL(b=wSxiE~Z6p
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 164, segnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 980
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 164, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 980
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 263910 and data xiE~Z6pL(b=wSxiE~Z6p.
A: 565090.4335, Layer 5 to 4 Message = 2CSdt'7HXiy, <M^n21BR
A timed out. Sending packet with segnum 1, and checksum 263910 again
B gettin' a packet with seqnum 1, and checksum 263910
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
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Expected checksum: 12936
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match! packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 263910
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 12936
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 263910 and data xiE~Z6pL(b=wSxiE~Z6p.
B gettin' a packet with seqnum 1, and checksum 263910
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 24141
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 263910
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 24141
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 263910 and data xiE~Z6pL(b=wSxiE~Z6p.
A timed out. Sending packet with seqnum 1, and checksum 263910 again
B gettin' a packet with segnum 1, and checksum 263910
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, segnum: 0, acknum: 11010048
Recieved packet data is: NAK
Expected checksum: -22019160
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 263910
Packet Corrupt!
Recieved checksum: 768, segnum: 0, acknum: 11010048
Recieved packet data is: NAK
Expected checksum: -22019160
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 263910 and data xiE~Z6pL(b=wSxiE~Z6p.
A timed out. Sending packet with segnum 1, and checksum 263910 again
A: 566634.8314, Layer 5 to 4 Message = 3Uw;^{1}Df*Ln2Tv:^{2}
A timed out. Sending packet with seqnum 1, and checksum 263910 again
B gettin' a packet with segnum 1, and checksum 263910
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 263910
Not corrupt, but bad sequence number, sending next boi
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Data being dequeued: d{iVD1|jWE2}2X03~1YG
A sending packet with seqnum 0 and checksum 238646 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 238646
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 566714.1025, Layer 4 to 5 Message = d{iVD1|jWE2}2X03\sim 1YG
Setting comp segnum from 0 to 1
A: 567197.7744, Layer 5 to 4 Message = 4h=qGzP&Yxc8lBuK~T4^
A timed out. Sending packet with seqnum 0, and checksum 238646 again
A: 567205.8313, Layer 5 to 4 Message = 5zbI0u]D+pW>&kR9~fM5
B gettin' a packet with segnum 0, and checksum 238646
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 256, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1704
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 256. last transmitted seqnum: 0
Last sent packet Checksum: 238646
Packet Corrupt!
Recieved checksum: 939, seqnum: 256, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1704
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 238646 and data d{iVD1|jWE2}2X03~1YG.
A timed out. Sending packet with seqnum 0, and checksum 238646 again
B gettin' a packet with segnum 0, and checksum 238646
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 238646
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 10x.-,+*)('\&%$#1~}|{}
A sending packet with segnum 1 and checksum 231605 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 231605
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   567759.8214, Layer 4 to 5 Message = 10x.-,+*) ('&%$\$1~}|{
B:
Setting comp segnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 231605 again
B gettin' a packet with seqnum 1, and checksum 231605
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 231605
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 2CSdt'7HXiy, <M^n21BR
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A sending packet with seqnum 0 and checksum 214294 from the queue
A sending packet to B
A timed out. Sending packet with segnum 0, and checksum 214294 again
B gettin' a packet with seqnum 0, and checksum 214294
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 568790.4360, Layer 4 to 5 Message = 2CSdt'7HXiy,<M^n21BR
Setting comp segnum from 0 to 1
A: 568831.0\overline{5}36, Layer 5 to 4 Message = 6x(\sim pibZSLE=6x(\sim pi
A: 569173.7850, Layer 5 to 4 Message = d7LVaku!, 6AK2`3t~+5?
A timed out. Sending packet with seqnum 0, and checksum 214294 again
A: 569461.0602, Layer 5 to 4 Message = 8T8.Jf?[w5Qm+Gc~<Xt
A timed out. Sending packet with seqnum 0, and checksum 214294 again
A: 570035.4675, Layer 5 to 4 Message = 9g693a0^-Z*W'T$Q~N{K}
A timed out. Sending packet with segnum 0, and checksum 214294 again
B gettin' a packet with seqnum 0, and checksum 214294
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
A: 570620.4217, Layer 5 to 4 Message = :yZ;:[<{]=|^>} ?~`A!
A timed out. Sending packet with seqnum 0, and checksum 214294 again
A: 571267.0614, Layer 5 to 4 Message = ;.~qd;I;.~qdVI;.~qdV
A timed out. Sending packet with seqnum 0, and checksum 214294 again
A timed out. Sending packet with segnum 0, and checksum 214294 again
A timed out. Sending packet with segnum 0, and checksum 214294 again
B gettin' a packet with seqnum 0, and checksum 214294
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 214294
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 3Uw;^!Df*Ln2Tv:]~3e)
A sending packet with segnum 1 and checksum 227223 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 227223
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 572313.5539, Layer 4 to 5 Message = 3Uw;^{1}Df*Ln2Tv:^{3}e
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 66468, seqnum: 1, acknum: 0
Recieved packet data is: ACK
Expected checksum: 934
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 66468, seqnum: 1, acknum: 0
Recieved packet data is: ACK
Expected checksum: 934
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 227223 and data 3Uw; ^!Df*Ln2Tv:]~3e).
B gettin' a packet with seqnum 1, and checksum 227223
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
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ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 227223
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 4h=qGzP&Yxc8lBuK~T4^
A sending packet with seqnum 0 and checksum 251234 from the queue
A sending packet to B
A timed out. Sending packet with segnum 0, and checksum 251234 again
B gettin' a packet with segnum 0, and checksum 251234
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 572872.9898, Layer 4 to 5 Message = 4h=qGzP&Yxc8lBuK~T4^
Setting comp segnum from 0 to 1
A: 572951.7483, Layer 5 to 4 Message = \langle AEIMQ \langle Y \rangle fjnrvz \sim % \rangle -
A timed out. Sending packet with seqnum 0, and checksum 251234 again
A timed out. Sending packet with seqnum 0, and checksum 251234 again
B gettin' a packet with seqnum 0, and checksum 251234
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 251234
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 5zbIOu]D+pW>&kR9~fM5
A sending packet with segnum 1 and checksum 229871 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 229871
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 573876.4418, Layer 4 to 5 Message = 5zbI0u]D+pW>&kR9~fM5
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: 6x(~wpibZSLE=6x(~wpi
A sending packet with seqnum 0 and checksum 271514 from the queue
A sending packet to B
A timed out. Sending packet with segnum 0, and checksum 271514 again
B gettin' a packet with segnum 0, and checksum 271514
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 574407.0239, Layer 4 to 5 Message = 6x(~wpibZSLE=6x(~wpi
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: d7LVaku!, 6AK2`3t~+5?
A sending packet with segnum 1 and checksum 207173 from the queue
A sending packet to B
A: 574794.4626, Layer 5 to 4 Message = =Si\sim6Lb=xEZp(=Si\sim6Lb
A timed out. Sending packet with seqnum 1, and checksum 207173 again
B gettin' a packet with segnum 1, and checksum 207173
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
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B sending message up to layer 5 and updating newest recieved data

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B: 574936.2177, Layer 4 to 5 Message = d7LVaku!,6AK2`3t~+5?
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: 8T8.Jf$?[w5Qm+Gc~<Xt
A sending packet with seqnum 0 and checksum 252411 from the queue
A sending packet to B
A: 574943.4455, Layer 5 to 4 Message = dfxV}Gn7>(Ov2g0W~Ho8)
B gettin' a packet with segnum 0, and checksum 252411
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 574963.5284, Layer 4 to 5 Message = 8T8.Jf?[w5Qm+Gc~<Xt
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: 9g693a0^-Z*W'T$Q~N{K
A sending packet with segnum 1 and checksum 233163 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 233163
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 574994.5643, Layer 4 to 5 Message = 9g693a0^-Z*W'T$Q~N{K}
Setting comp seqnum from 1 to 0
A: 575109.1315, Layer 5 to 4 Message = ?xS.gBzU0?D|W2kF~Y4m
A timed out. Sending packet with seqnum 1, and checksum 233163 again
B gettin' a packet with seqnum 1, and checksum 233163
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 233163
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: :yZ;:[<{]=|^>} ?^A!
A sending packet with seqnum 0 and checksum 236594 from the queue
A sending packet to B
A timed out. Sending packet with segnum 0, and checksum 236594 again
B gettin' a packet with segnum 62, and checksum 236594
Packet Corrupt!
Recieved checksum: 236594, segnum: 62, acknum: 0
Recieved packet data is: :yZ;:[<{]=|^
Expected checksum: 226302
Packet Corrupt!
Recieved checksum: 236594, segnum: 62, acknum: 0
Recieved packet data is: :yZ;:[<{]=|^
Expected checksum: 226302
Packet corrupt
Sending bACK a NAK!
A: 576032.1723, Layer 5 to 4 Message = AfwdP<)s`LA%o[34~kWD
A timed out. Sending packet with seqnum 0, and checksum 236594 again
A timed out. Sending packet with seqnum 0, and checksum 236594 again
A timed out. Sending packet with seqnum 0, and checksum 236594 again
B gettin' a packet with segnum 0, and checksum 236594
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
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B sending message up to layer 5 and updating newest recieved data
B: 577529.1324, Layer 4 to 5 Message = :yZ;:[\{\}=|^>\} ?~ A!
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 967
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 967
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 236594 and data :yZ;:[<{]=|^>} ?^A!.
B gettin' a packet with seqnum 0, and checksum 236594
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 236594
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ;.~qd;I;.~qdVI;.~qdV
A sending packet with segnum 1 and checksum 256906 from the queue
A sending packet to B
A: 577652.4530, Layer 5 to 4 Message = B?=;97531x-B)'%#~|zx
A timed out. Sending packet with seqnum 1, and checksum 256906 again
A timed out. Sending packet with seqnum 1, and checksum 256906 again
B gettin' a packet with seqnum 1, and checksum 256906
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 578593.3269, Layer 4 to 5 Message = ;.~qd;I;.~qdVI;.~qdV
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 164, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1700
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 164, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1700
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 256906 and data ;.~qd;I;.~qdVI;.~qdV.
B gettin' a packet with seqnum 1, and checksum 256906
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A: 578883.2679, Layer 5 to 4 Message = CRbq#2BQap!1CP`o~0?0
A timed out. Sending packet with segnum 1, and checksum 256906 again
A: 579244.4440, Layer 5 to 4 Message = De(Ij-No2St7XD<^~Bc&
A timed out. Sending packet with seqnum 1, and checksum 256906 again
A: 579964.1517, Layer 5 to 4 Message = EwL~S(Zxb6i=pEEL~S(Z
A timed out. Sending packet with seqnum 1, and checksum 256906 again
B gettin' a packet with segnum 1, and checksum 256906
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
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A timed out. Sending packet with seqnum 1, and checksum 256906 again
A timed out. Sending packet with seqnum 1, and checksum 256906 again
B gettin' a packet with seqnum 1, and checksum 256906
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 256906
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: <AEIMQ<Y^bfjnrvz~%) -
A sending packet with segnum 0 and checksum 240448 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 240448
Packet Corrupt!
Recieved checksum: 240448, seqnum: 0, acknum: 0
Recieved packet data is: <A%IMQ<Y^bfjnrvz~E) -</pre>
Expected checksum: 250528
Packet Corrupt!
Recieved checksum: 240448, seqnum: 0, acknum: 0
Recieved packet data is: <A%IMQ<Y^bfjnrvz~E) -</pre>
Expected checksum: 250528
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 240448 and data <AEIMQ<Y^bfjnrvz~%)-. corrupted from
A to B, resending
A timed out. Sending packet with seqnum 0, and checksum 240448 again
B gettin' a packet with segnum 0, and checksum 240448
Packet Corrupt!
Recieved checksum: 240448, segnum: 0, acknum: 0
Recieved packet data is: <AEIMQ<Yb^fjnrvz~%) -
Expected checksum: 240372
Packet Corrupt!
Recieved checksum: 240448, seqnum: 0, acknum: 0
Recieved packet data is: <AEIMQ<Yb^fjnrvz~%)-
Expected checksum: 240372
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 240448 and data <AEIMQ<Y^bfjnrvz~%)-. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 240448
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   581662.6771, Layer 4 to 5 Message = <AEIMQ<Y^bfjnrvz~%)-
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: =Si~6Lb=xEZp(=Si~6Lb
A sending packet with segnum 1 and checksum 244527 from the queue
A sending packet to B
   581737.1968, Layer 5 to 4 Message = d,pV<#gM3w^D2nTF~eK1
A: 581780.3364, Layer 5 to 4 Message = G>6.&(skcZRJB91)Gvnf
A timed out. Sending packet with seqnum 1, and checksum 244527 again
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B gettin' a packet with seqnum 1, and checksum 244527
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 582186.4682, Layer 4 to 5 Message = =Si\sim6Lb=xEZp(=Si\sim6Lb
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 19201
Recieved packet data is: AC
Expected checksum: -38143
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 19201
Recieved packet data is: AC
Expected checksum: -38143
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 244527 and data =Si\sim6Lb=xEZp (=Si\sim6Lb.
A timed out. Sending packet with seqnum 1, and checksum 244527 again
A: 582827.1120, Layer 5 to 4 Message = HQZdmv!+4=GPYclu\sim H3<
A timed out. Sending packet with seqnum 1, and checksum 244527 again
B gettin' a packet with segnum 1, and checksum 244527
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 244527 again
B gettin' a packet with seqnum 1, and checksum 244527
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 244527
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dfxV}Gn7>(Ov2g0W~Ho8
A sending packet with segnum 0 and checksum 236974 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 236974
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   583741.9904, Layer 4 to 5 Message = dfxVGn7>(Ov2q0W~Ho8
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ?xS.gBzU0?D|W2kF~Y4m
A sending packet with seqnum 1 and checksum 248713 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 248713
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   583760.0992, Layer 4 to 5 Message = ?xS.gBzU0?D|W2kF~Y4m
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: AfwdP<)s`LA%o[34~kWD
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A sending packet with seqnum 0 and checksum 236236 from the queue

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A sending packet to B
B gettin' a packet with seqnum 0, and checksum 236236
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 583805.4666, Layer 4 to 5 Message = AfwdP<)s`LA%o[34~kWD
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, segnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 24329
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 24329
A: no valid ACK, got instead with corruption. Resending packet with
checksum 236236 and data AfwdP<)s`LA%o[34~kWD.
A: 583834.2724, Layer 5 to 4 Message = Id~; Vq.Id~; Vq.Id~; Iq
B gettin' a packet with seqnum 0, and checksum 236236
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
   584248.7527, Layer 5 to 4 Message = JfEq?1:q5b0]+W3R~MyJ
A timed out. Sending packet with segnum 0, and checksum 236236 again
B gettin' a packet with seqnum 0, and checksum 236236
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 236236
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: B?=;97531x-B)'%#~|zx
A sending packet with segnum 1 and checksum 242411 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 242411 again
B gettin' a packet with seqnum 1, and checksum 242411
Packet Corrupt!
Recieved checksum: 242411, seqnum: 1, acknum: 2046820352
Recieved packet data is: B?=;97531x-B)'%#~|
Expected checksum: 201524961
Packet Corrupt!
Recieved checksum: 242411, seqnum: 1, acknum: 2046820352
Recieved packet data is: B?=;97531x-B)'%#~|
Expected checksum: 201524961
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 242411 and data B?=;97531x-B)'%#~|zx. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 242411
Packet Corrupt!
Recieved checksum: 242411, seqnum: 1, acknum: 66
Recieved packet data is: B?=;97531x-
Expected checksum: 232775
Packet Corrupt!
Recieved checksum: 242411, seqnum: 1, acknum: 66
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Recieved packet data is: B?=;97531x-
Expected checksum: 232775
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 242411 and data B?=;97531x-B)'%#~|zx. corrupted from
A to B, resending
A timed out. Sending packet with seqnum 1, and checksum 242411 again
B gettin' a packet with segnum 1, and checksum 242411
Packet Corrupt!
Recieved checksum: 242411, seqnum: 1, acknum: 0
Recieved packet data is: B?=;57931x-B)'%#~|zx
Expected checksum: 242507
Packet Corrupt!
Recieved checksum: 242411, segnum: 1, acknum: 0
Recieved packet data is: B?=;57931x-B)'%#~|zx
Expected checksum: 242507
Packet corrupt
Sending bACK a NAK!
A: 585852.7965, Layer 5 to 4 Message = K+iI)gG'eE%cC#aA~ >|
A timed out. Sending packet with segnum 1, and checksum 242411 again
A: 585953.8580, Layer 5 to 4 Message = LLx~pbSE6(wiZL=x~pbS
A: 586202.1562, Layer 5 to 4 Message = dPMVY] cfilo2ux{~$'*}
A timed out. Sending packet with seqnum 1, and checksum 242411 again
A timed out. Sending packet with seqnum 1, and checksum 242411 again
B gettin' a packet with segnum 1, and checksum 242411
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   586892.3014, Layer 4 to 5 Message = B?=;97531x-B)'%#~|zx
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: CRbq#2BQap!1CP`o~0?0
A sending packet with seqnum 0 and checksum 227535 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 227535
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 586916.5378, Layer 4 to 5 Message = CRbq#2BQap!1CP`o~0?0
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 66465, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 931
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 66465, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 931
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 227535 and data CRbq#2BQap!1CP`o~0?0.
B gettin' a packet with segnum 0, and checksum 227535
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
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A: 587350.0187, Layer 5 to 4 Message = NcwNCWl#7Lau, AUj~5J

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A timed out. Sending packet with seqnum 0, and checksum 227535 again
B gettin' a packet with seqnum 0, and checksum 227535
Packet Corrupt!
Recieved checksum: 227535, seqnum: 0, acknum: 0
Recieved packet data is: CRbqP2BQap!1C#`o~0?0
Expected checksum: 219840
Packet Corrupt!
Recieved checksum: 227535, segnum: 0, acknum: 0
Recieved packet data is: CRbqP2BQap!1C#`o~0?0
Expected checksum: 219840
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 227535 again
A: 588198.1873, Layer 5 to 4 Message = Ou=dORxAgxU{Dj}2X\sim Gm5
A timed out. Sending packet with seqnum 0, and checksum 227535 again
A timed out. Sending packet with segnum 0, and checksum 227535 again
B gettin' a packet with seqnum 0, and checksum 227535
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 227535
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: De(Ij-No2St7XD<^~Bc&
A sending packet with segnum 1 and checksum 225929 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 225875
Packet Corrupt!
Recieved checksum: 225875, segnum: 1, acknum: 0
Recieved packet data is: De(Ij-No2%t7XD<^~Bc&
Expected checksum: 205729
Packet Corrupt!
Recieved checksum: 225875, seqnum: 1, acknum: 0
Recieved packet data is: De(Ij-No2%t7XD<^~Bc&
Expected checksum: 205729
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 225929 and data De(Ij-No2St7XD<^~Bc&. corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 225929
Packet Corrupt!
Recieved checksum: 225929, seqnum: 1, acknum: 0
Recieved packet data is: &e(Ij-No2St7XD<^~BcD
Expected checksum: 237899
Packet Corrupt!
Recieved checksum: 225929, seqnum: 1, acknum: 0
Recieved packet data is: &e(Ij-No2St7XD<^~BcD
Expected checksum: 237899
Packet corrupt
Sending bACK a NAK!
A: 589053.0851, Layer 5 to 4 Message = P*b;sP' 8pJ$[5mG~X2j]
A timed out. Sending packet with seqnum 1, and checksum 225929 again
A timed out. Sending packet with seqnum 1, and checksum 225929 again
B gettin' a packet with segnum 1, and checksum 225929
Expected packet compared and confirmed
```

B Sending bACK an ACK with checksum: 932

```
B sending message up to layer 5 and updating newest recieved data
B: 589979.2751, Layer 4 to 5 Message = De(Ij-No2St7XD<^~Bc&
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: EwL~S(Zxb6i=pEEL~S(Z
A sending packet with segnum 0 and checksum 234779 from the queue
A sending packet to B
A: 590149.3144, Layer 5 to 4 Message = Q<(q]HQ|hS>*s J5~jUA
A timed out. Sending packet with seqnum 0, and checksum 234779 again
B gettin' a packet with segnum 0, and checksum 234779
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   590507.3342, Layer 4 to 5 Message = EwL~S(Zxb6i=pEEL~S(Z
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: d,pV<#gM3w^D2nTF~eK1
A sending packet with segnum 1 and checksum 235161 from the queue
A sending packet to B
A timed out. Sending packet with segnum 1, and checksum 235161 again
B gettin' a packet with segnum 1, and checksum 235161
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 591017.5012, Layer 4 to 5 Message = d,pV<\#gM3w^D2nTF\sim eK1
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 235161 again
B gettin' a packet with segnum 1, and checksum 235161
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 23400
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 235161
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 23400
A: no valid ACK, got instead with corruption. Resending packet with
checksum 235161 and data d,pV<#gM3w^D2nTF~eK1.
A: 591969.0197, Layer 5 to 4 Message = ROLIFC?R9630-*'$~{xu}
A timed out. Sending packet with seqnum 1, and checksum 235161 again
B gettin' a packet with segnum 1, and checksum 235161
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -9712
Bad ACK or NAK determined by A
```

```
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 235161
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -9712
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 235161 and data d, pV<#qM3w^D2nTF~eK1.
B gettin' a packet with segnum 1, and checksum 235161
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 235161
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: G>6.&{skcZRJB91)Gvnf
A sending packet with segnum 0 and checksum 240030 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 240030
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 592147.0139, Layer 4 to 5 Message = G>6.&{skcZRJB91})Gvnf
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 16778145, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 931
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 16778145, segnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 931
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 240030 and data G>6.&{skcZRJB91)Gvnf.
B gettin' a packet with seqnum 0, and checksum 240030
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 240030
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: HQZdmv!+4=GPYclu~H3<
A sending packet with segnum 1 and checksum 235347 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 235347
Packet Corrupt!
Recieved checksum: 235347, segnum: 1, acknum: 0
Recieved packet data is: HQZdmv!+4=GPYc~ulH3<
Expected checksum: 234195
Packet Corrupt!
Recieved checksum: 235347, seqnum: 1, acknum: 0
Recieved packet data is: HQZdmv!+4=GPYc~ulH3<
Expected checksum: 234195
```

```
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 235347 and data HQZdmv!+4=GPYclu~H3<. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 235347
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 592217.2764, Layer 4 to 5 Message = HQZdmv!+4=GPYclu~H3<
Setting comp_seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 235347 again
B gettin' a packet with segnum 1, and checksum 235347
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 235347
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Id~; Vq.Id~; Vq.Id~; Iq
A sending packet with segnum 0 and checksum 253062 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 253062
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 592762.2118, Layer 4 to 5 Message = Id~; Vq.Id~; Vq.Id~; Iq
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 4260769, seqnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 864
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 4260769, seqnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 864
A: no valid ACK, got instead with corruption. Resending packet with
checksum 253062 and data Id~; Vq.Id~; Vq.Id~; Iq.
B gettin' a packet with segnum 0, and checksum 253062
Packet Corrupt!
Recieved checksum: 253062, seqnum: 0, acknum: 32256
Recieved packet data is: Id
Expected checksum: 187416
Packet Corrupt!
Recieved checksum: 253062, segnum: 0, acknum: 32256
Recieved packet data is: Id
Expected checksum: 187416
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 19371, segnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 291
Bad ACK or NAK determined by A
```

```
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 253062
Packet Corrupt!
Recieved checksum: 19371, seqnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 291
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 253062 and data Id~; Vq.Id~; Vq.Id~; Iq.
B gettin' a packet with segnum 0, and checksum 253062
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 253062
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: JfEq?1:g5b0]+W3R~MyJ
A sending packet with segnum 1 and checksum 242456 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 242456
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 592848.8708, Layer 4 to 5 Message = JfEq?1:g5b0]+W3R~MyJ
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: K+iI)gG'eE%cC#aA~ >|
A sending packet with segnum 0 and checksum 242629 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 242629
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 592861.5677, Layer 4 to 5 Message = K+iI)gG'eE%cC#aA~_>|
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: LLx~pbSE6(wiZL=x~pbS
A sending packet with segnum 1 and checksum 271937 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 271937 again
B gettin' a packet with seqnum 1, and checksum 271937
Packet Corrupt!
Recieved checksum: 271937, seqnum: 1, acknum: 0
Recieved packet data is: LLx~p~SE6(wiZL=xbpbS
Expected checksum: 264853
Packet Corrupt!
Recieved checksum: 271937, segnum: 1, acknum: 0
Recieved packet data is: LLx~p~SE6(wiZL=xbpbS
Expected checksum: 264853
Packet corrupt
Sending bACK a NAK!
A: 593478.9331, Layer 5 to 4 Message = Sfp~x=LZSw(6ES3p~x=L
A timed out. Sending packet with segnum 1, and checksum 271937 again
A timed out. Sending packet with seqnum 1, and checksum 271937 again
```

```
B gettin' a packet with seqnum 1, and checksum 271937
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 594400.7903, Layer 4 to 5 Message = LLx~pbSE6(wiZL=x~pbS
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dPMVY] `cfilo2ux{~$'*
A sending packet with segnum 0 and checksum 235666 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 235666
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   594430.3595, Layer 4 to 5 Message = dPMVY] `cfilo2ux{~$'*
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 10224
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 10224
A: no valid ACK, got instead with corruption. Resending packet with
checksum 235666 and data dPMVY]`cfilo2ux{~$'*.
A timed out. Sending packet with seqnum 0, and checksum 235666 again
B gettin' a packet with segnum 0, and checksum 235666
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 235666
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: NcwNCWl#7Lau, AUj~5J
A sending packet with segnum 1 and checksum 240435 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 240435
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 595005.9585, Layer 4 to 5 Message = NcwNCWl#7Lau, AUj~5J
Setting comp segnum from 1 to 0
A: 595015.4605, Layer 5 to 4 Message = dt6Vv8Xx:Tz<2|> ~Aa#
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 164, segnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 2015
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 164, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 2015
```

```
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 240435 and data NcwNCWl\#7Lau,AUj\sim5J .
A: 595400.9008, Layer 5 to 4 Message = U) \overline{Z}. 3e8j=UCtHyM~R&W
A timed out. Sending packet with seqnum 1, and checksum 240435 again
B gettin' a packet with seqnum 1, and checksum 240435
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 240435
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Ou=dORxAgxU{Dj2X~Gm5
A sending packet with seqnum 0 and checksum 251939 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 251939
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   595589.5749, Layer 4 to 5 Message = Ou=dORxAgxU{Dj2X~Gm5
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: P*b;sP' 8pJ$[5mG~X2j
A sending packet with segnum 1 and checksum 239464 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 239464
Packet Corrupt!
Recieved checksum: 239464, segnum: 1, acknum: 0
Recieved packet data is: P*b;sP' 8pJ$[5mGX~2j
Expected checksum: 240794
Packet Corrupt!
Recieved checksum: 239464, seqnum: 1, acknum: 0
Recieved packet data is: P*b;sP' 8pJ$[5mGX~2j
Expected checksum: 240794
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 239464 and data P*b;sP' 8pJ$[5mG~X2]. corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 239464
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   595615.3592, Layer 4 to 5 Message = P*b;sP' 8pJ$[5mG~X2j
B:
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Q<(q]HQ|hS>*s J5~jUA
A sending packet with seqnum 0 and checksum 245224 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 245224
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 595633.8762, Layer 4 to 5 Message = Q<(q]HQ|hS>*s J5~jUA
```

```
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 2129
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 2129
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 245224 and data Q<(q]HQ|hS>*s J5~jUA.
B gettin' a packet with segnum 0, and checksum 245224
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 245224
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ROLIFC?R9630-*'$~{xu
A sending packet with segnum 1 and checksum 237987 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 237987
Packet Corrupt!
Recieved checksum: 237987, seqnum: 1, acknum: 0
Recieved packet data is: ROLIFC?R9630u*'$~{x-
Expected checksum: 221355
Packet Corrupt!
Recieved checksum: 237987, segnum: 1, acknum: 0
Recieved packet data is: ROLIFC?R9630u*'$~{x-
Expected checksum: 221355
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 237987 and data ROLIFC?R9630-*'$~{xu. corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 237987
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 595671.5608, Layer 4 to 5 Message = ROLIFC?R9630-*'$~{xu
Setting comp_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Sfp~x=LZSw(6ES3p~x=L
A sending packet with seqnum 0 and checksum 245148 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 245148
Packet Corrupt!
Recieved checksum: 245148, seqnum: 0, acknum: 0
Recieved packet data is: Sfp~x=LZSw(~ES3p6x=L
Expected checksum: 234708
Packet Corrupt!
Recieved checksum: 245148, seqnum: 0, acknum: 0
Recieved packet data is: Sfp~x=LZSw(~ES3p6x=L
```

```
Expected checksum: 234708
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 245148 and data Sfp~x=LZSw(6ES3p~x=L. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 245148
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 595700.0608, Layer 4 to 5 Message = Sfp~x=LZSw(6ES3p~x=L
Setting comp seqnum from 0 to 1
A: 595970.5825, Layer 5 to 4 Message = V;~dI.qV;~dV.qV;~dI.
A timed out. Sending packet with seqnum 0, and checksum 245148 again
B gettin' a packet with seqnum 0, and checksum 245148
Packet Corrupt!
Recieved checksum: 245148, seqnum: 0, acknum: 0
Recieved packet data is: Sfp~x=LZS(w6ES3p~x=L
Expected checksum: 246807
Packet Corrupt!
Recieved checksum: 245148, seqnum: 0, acknum: 0
Recieved packet data is: Sfp~x=LZS(w6ES3p~x=L
Expected checksum: 246807
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 245148
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dt6Vv8Xx:Tz<2|> ~Aa#
A sending packet with segnum 1 and checksum 233325 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 233325
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 596230.0473, Layer 4 to 5 Message = dt6Vv8Xx:Tz<2|> ~Aa#
Setting comp segnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 233325 again
A timed out. Sending packet with seqnum 1, and checksum 233325 again
B gettin' a packet with segnum 1, and checksum 233325
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 233325
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: U) Z. `3e8j=UCtHyM~R&W
A sending packet with seqnum 0 and checksum 241259 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 241259
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 597233.4238, Layer 4 to 5 Message = U)Z.~3e8j=UCtHyM~R&W
```

```
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: V;~dI.qV;~dV.qV;~dI.
A sending packet with seqnum 1 and checksum 237310 from the queue
A sending packet to B
A: 597246.3433, Layer 5 to 4 Message = WNE;2)}tkbXOW<3*~ulc
B gettin' a packet with segnum 1, and checksum 237310
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 597249.0729, Layer 4 to 5 Message = V;~dI.qV;~dV.qV;~dI.
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: WNE;2)}tkbXOW<3*~ulc
A sending packet with segnum 0 and checksum 260253 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 260253
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 597269.1603, Layer 4 to 5 Message = WNE;2)}tkbXOW<3*~ulc
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1187
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1187
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 260253 and data WNE; 2) }tkbXOW<3*~ulc.
B gettin' a packet with seqnum 0, and checksum 260253
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 260253 again
B gettin' a packet with segnum 0, and checksum 260253
Packet Corrupt!
Recieved checksum: 260253, segnum: 0, acknum: 0
Recieved packet data is: WNE;2)}tkbXO<W3*~ulc
Expected checksum: 260982
Packet Corrupt!
Recieved checksum: 260253, seqnum: 0, acknum: 0
Recieved packet data is: WNE;2)}tkbXO<W3*~ulc
Expected checksum: 260982
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 260253 again
B gettin' a packet with seqnum 0, and checksum 260253
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
```

```
Recieved packet data is: NA
Expected checksum: 7764
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 260253
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 7764
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 260253 and data WNE; 2) }tkbXOW<3*~ulc.
B gettin' a packet with seqnum 0, and checksum 260253
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 260253
Not corrupt, but bad sequence number, sending next boi
A: 599023.5117, Layer 5 to 4 Message = Xaiqy$,4<EMU^Xnv~)19
A sending packet with seqnum 1 and checksum 224556
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 224556
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 599051.1447, Layer 4 to 5 Message = Xaiqy$, 4 < EMU^Xnv^-) 19
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 224556 again
A timed out. Sending packet with segnum 1, and checksum 224556 again
A timed out. Sending packet with segnum 1, and checksum 224556 again
B gettin' a packet with segnum 1, and checksum 224556
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 224556
Not corrupt, but bad sequence number, sending next boi
A: 600576.9918, Layer 5 to 4 Message = YsxIc|8Rl(B[u1Ye~:Tn
A sending packet with seqnum 0 and checksum 256277
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 256277 again
B gettin' a packet with seqnum 0, and checksum 256277
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   601088.2554, Layer 4 to 5 Message = YsxIc|8Rl(B[u1Ye~:Tn
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 601250.6505, Layer 5 to 4 Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE)
A sending packet with segnum 1 and checksum 257316
A sending packet to B
B gettin' a packet with segnum 1, and checksum 257316
Expected packet compared and confirmed
```

```
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 601263.0472, Layer 4 to 5 Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE)
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 257316 again
A: 602057.0657, Layer 5 to 4 Message = d:wV5rQ0mL+h2&cB[^<y]
A timed out. Sending packet with seqnum 1, and checksum 257316 again
B gettin' a packet with segnum 1, and checksum 257316
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A: 602253.8394, Layer 5 to 4 Message = ]f=.|m^N>x\}n O30~] P
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 257316
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d:wV5rQ0mL+h2&cB[^<y
A sending packet with segnum 0 and checksum 233664 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 233664
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 602273.9289, Layer 4 to 5 Message = d:wV5rQ0mL+h2&cB[^<y]
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: -6766
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: -6766
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 233664 and data d:wV5rQ0mL+h2&cB[^<y.
B gettin' a packet with seqnum 3342336, and checksum 233664
Packet Corrupt!
Recieved checksum: 233664, seqnum: 3342336, acknum: 0
Recieved packet data is: b:wV5rQ0mL+h
Expected checksum: 10252220
Packet Corrupt!
Recieved checksum: 233664, seqnum: 3342336, acknum: 0
Recieved packet data is: b:wV5rQ0mL+h
Expected checksum: 10252220
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 233664
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ]f=.|m^N>x}n O30~]`P
A sending packet with segnum 1 and checksum 254825 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 254825
Expected packet compared and confirmed
```

```
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 602337.8187, Layer 4 to 5 Message = ]f=.|m^N>x}n O30~]`P
Setting comp\_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 603361.2130, Layer 5 to 4 Message = ^`bdfhjlnprtvxz|~#^'
A sending packet with seqnum 0 and checksum 271835
A sending packet to B
B gettin' a packet with segnum 0, and checksum 271835
Packet Corrupt!
Recieved checksum: 271835, seqnum: 0, acknum: 8126464
Recieved packet data is: ^`bdfhjlnprtvxz
Expected checksum: -16012837
Packet Corrupt!
Recieved checksum: 271835, seqnum: 0, acknum: 8126464
Recieved packet data is: ^`bdfhjlnprtvxz
Expected checksum: -16012837
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, segnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -7864
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -7864
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 271835 and data ^`bdfhjlnprtvxz|~#^'.
B gettin' a packet with segnum 0, and checksum 271835
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 603386.2104, Layer 4 to 5 Message = ^`bdfhjlnprtvxz|~#^'
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 604358.0272, Layer 5 to 4 Message = r(;Ocv,?Sgz0DWk\sim4H
A sending packet with segnum 1 and checksum 245013
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 245013
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   604386.5452, Layer 4 to 5 Message = r(;Ocv,?Sgz0DWk~4H)
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 604394.8856, Layer 5 to 4 Message = \Lq8^{\gray}168.76
A sending packet with segnum 0 and checksum 230179
A sending packet to B
B gettin' a packet with segnum 0, and checksum 230179
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
```

```
B sending message up to layer 5 and updating newest recieved data
B: 604423.2860, Layer 4 to 5 Message = `'Lq8^%Jo6[#Hm4Y~Fk2
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 605360.8617, Layer 5 to 4 Message = aapI!X1hAwP)`8oH~W0g
A sending packet with segnum 1 and checksum 242123
A sending packet to B
B gettin' a packet with segnum 1, and checksum 242123
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 605384.2018, Layer 4 to 5 Message = aapI!X1hAwP) `80H~W0g
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 606200.4316, Layer 5 to 4 Message = bLb \sim iS = (pZExwbL6 \sim iS =
A sending packet with segnum 0 and checksum 253126
A sending packet to B
B gettin' a packet with seqnum 32256, and checksum 253126
Packet Corrupt!
Recieved checksum: 253126, segnum: 32256, acknum: 0
Recieved packet data is: bLb~iS=(pZExwbL6
Expected checksum: 313480
Packet Corrupt!
Recieved checksum: 253126, seqnum: 32256, acknum: 0
Recieved packet data is: bLb~iS=(pZExwbL6
Expected checksum: 313480
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 253126 again
B gettin' a packet with seqnum 0, and checksum 253126
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 606722.1844, Layer 4 to 5 Message = bLb~iS=(pZExwbL6~iS=
Setting comp seqnum from 0 to 1
A: 606966.2888, Layer 5 to 4 Message = d ZcRNJFB=952-)%~zvr
A timed out. Sending packet with seqnum 0, and checksum 253126 again
A timed out. Sending packet with segnum 0, and checksum 253126 again
B gettin' a packet with segnum 0, and checksum 253126
Packet Corrupt!
Recieved checksum: 253126, segnum: 0, acknum: 0
Recieved packet data is: bLb~iS=(pZExwbLS~i6=
Expected checksum: 250081
Packet Corrupt!
Recieved checksum: 253126, seqnum: 0, acknum: 0
Recieved packet data is: bLb~iS=(pZExwbLS~i6=
Expected checksum: 250081
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 16811, seqnum: 1, acknum: 0
Recieved packet data is: N K
Expected checksum: 691
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
```

```
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 253126
Packet Corrupt!
Recieved checksum: 16811, segnum: 1, acknum: 0
Recieved packet data is: N K
Expected checksum: 691
A: no valid ACK, got N K instead with corruption. Resending packet with
checksum 253126 and data bLb~iS=(pZExwbL6~iS=.
B gettin' a packet with segnum 0, and checksum 253126
Packet Corrupt!
Recieved checksum: 253126, seqnum: 0, acknum: 0
Recieved packet data is: bLb~iS=(pZExwbi6~LS=
Expected checksum: 250255
Packet Corrupt!
Recieved checksum: 253126, seqnum: 0, acknum: 0
Recieved packet data is: bLb~iS=(pZExwbi6~LS=
Expected checksum: 250255
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: KAN
Expected checksum: 963
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 253126
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: KAN
Expected checksum: 963
A: no valid ACK, got KAN instead with corruption. Resending packet with
checksum 253126 and data bLb~iS=(pZExwbL6~iS=.
B gettin' a packet with seqnum 0, and checksum 253126
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 253126 again
B gettin' a packet with seqnum 0, and checksum 253126
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 253126
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d ZcRNJFB=952-)%~zvr
A sending packet with segnum 1 and checksum 241846 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 241846
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 608278.4978, Layer 4 to 5 Message = d ZcRNJFB=952-)%~zvr
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 0
Recieved packet data is: ACK
```

```
Expected checksum: 1034
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1034
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 241846 and data d ZcRNJFB=952-)%~zvr.
A: 608395.7267, Layer 5 to 4 Message = dq~.dIVdq~.;IVdq~.;I
A timed out. Sending packet with segnum 1, and checksum 241846 again
B gettin' a packet with segnum 1, and checksum 241846
Packet Corrupt!
Recieved checksum: 241846, seqnum: 1, acknum: 0
Recieved packet data is: b ZcRNJFB=95)-3%~zvr
Expected checksum: 242573
Packet Corrupt!
Recieved checksum: 241846, seqnum: 1, acknum: 0
Recieved packet data is: b ZcRNJFB=95)-3%~zvr
Expected checksum: 242573
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 16640
Recieved packet data is: N
Expected checksum: -32604
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 241846
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 16640
Recieved packet data is: N
Expected checksum: -32604
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 241846 and data d ZcRNJFB=952-)%~zvr.
A: 608907.9419, Layer 5 to 4 Message = e\&Ed%ec$Cb#Ba!A`~?}
A timed out. Sending packet with seqnum 1, and checksum 241846 again
B gettin' a packet with seqnum 1, and checksum 215734
Packet Corrupt!
Recieved checksum: 215734, seqnum: 1, acknum: 0
Recieved packet data is: b ZcRN°FB=953-)%~zvr
Expected checksum: 234467
Packet Corrupt!
Recieved checksum: 215734, segnum: 1, acknum: 0
Recieved packet data is: b_ZcRN°FB=953-)%~zvr
Expected checksum: 234467
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 241846 again
B gettin' a packet with seqnum 1, and checksum 241846
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 17316
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
```

```
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 241846
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 17316
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 241846 and data d ZcRNJFB=952-)%~zvr.
B gettin' a packet with seqnum 1, and checksum 241846
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 241846
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dq~.dIVdq~.;IVdq~.;I
A sending packet with segnum 0 and checksum 236340 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 236340
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 609894.1495, Layer 4 to 5 Message = dq~.dIVdq~.;IVdq~.;I
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 21929
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 21929
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 236340 and data dq~.dIVdq~.;IVdq~.;I.
B gettin' a packet with seqnum 0, and checksum 236340
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
A: 610159.1321, Layer 5 to 4 Message = ffi;1>fBrEuHxK3N~Q$T
   610280.3437, Layer 5 to 4 Message = gKxqU9{gD(jN2tX<~cG+
A timed out. Sending packet with seqnum 0, and checksum 236340 again
B gettin' a packet with seqnum 0, and checksum 236340
Packet Corrupt!
Recieved checksum: 236340, seqnum: 0, acknum: 0
Recieved packet data is: dV~.dIqdq~.;IVdq~.;I
Expected checksum: 237555
Packet Corrupt!
Recieved checksum: 236340, seqnum: 0, acknum: 0
Recieved packet data is: dV~.dIqdq~.;IVdq~.;I
Expected checksum: 237555
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 236340 again
B gettin' a packet with segnum 0, and checksum 236340
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 236340 again
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A: 611483.8550, Layer 5 to 4 Message = h^SI>4*}hi TJ?5+~tj`
A timed out. Sending packet with seqnum 0, and checksum 236340 again
B gettin' a packet with seqnum 0, and checksum 236340
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 236340
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: e&Ed%ec$Cb#Ba!A`~? }
A sending packet with seqnum 1 and checksum 246265 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 246265
Packet Corrupt!
Recieved checksum: 246265, seqnum: 1, acknum: 0
Recieved packet data is: e&E %ec$Cb#Ba!A`~?d}
Expected checksum: 247990
Packet Corrupt!
Recieved checksum: 246265, seqnum: 1, acknum: 0
Recieved packet data is: e&E %ec$Cb#Ba!A`~?d}
Expected checksum: 247990
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 246265 and data e&Ed%ec$Cb#Ba!A`~? }. corrupted from
A to B, resending
A: 612305.9399, Layer 5 to 4 Message = ipw \sim (x6=EiSZbipw \sim (x6)
A timed out. Sending packet with seqnum 1, and checksum 246265 again
B gettin' a packet with segnum 1, and checksum 246265
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 612466.8379, Layer 4 to 5 Message = e\&Ed%ec$Cb\#Ba!A`~?}
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ffi;l>fBrEuHxK3N~Q$T
A sending packet with segnum 0 and checksum 232812 from the queue
A sending packet to B
B gettin' a packet with segnum 4915200, and checksum 232812
Packet Corrupt!
Recieved checksum: 232812, seqnum: 4915200, acknum: 0
Recieved packet data is: ffi;l>fBrEuHx
Expected checksum: 14963712
Packet Corrupt!
Recieved checksum: 232812, segnum: 4915200, acknum: 0
Recieved packet data is: ffi;l>fBrEuHx
Expected checksum: 14963712
Packet corrupt
Sending bACK a NAK!
A: 612587.2508, Layer 5 to 4 Message = d%=Vo*C[txja24Mf~9Rk
A timed out. Sending packet with seqnum 0, and checksum 232812 again
B gettin' a packet with segnum 0, and checksum 232812
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
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B: 612978.5090, Layer 4 to 5 Message = ffi;1>fBrEuHxK3N~Q$T
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: gKxqU9{gD(jN2tX<~cG+</pre>
A sending packet with seqnum 1 and checksum 231246 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 231246
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 613010.1849, Layer 4 to 5 Message = gKxqU9{qD(jN2tX<~cG+
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: h^SI>4*}hi TJ?5+~tj`
A sending packet with segnum 0 and checksum 256764 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 256764
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 613025.8988, Layer 4 to 5 Message = h^SI>4}hi TJ?5+~tj`
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ipw~(x6=EiSZbipw~(x6
A sending packet with segnum 1 and checksum 261628 from the queue
A sending packet to B
   613410.6928, Layer 5 to 4 Message = k7b.X%OyFp<k3^*T~KuB
A timed out. Sending packet with seqnum 1, and checksum 261628 again
A timed out. Sending packet with seqnum 1, and checksum 261628 again
B gettin' a packet with seqnum 1, and checksum 261628
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 614034.1918, Layer 4 to 5 Message = ipw~(x6=EiSZbipw~(x6
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: d%=Vo*C[txja24Mf~9Rk
A sending packet with seqnum 0 and checksum 253043 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 253043
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 614083.8451, Layer 4 to 5 Message = d%=Vo*C[txja24Mf~9Rk
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 16640, acknum: 1
Recieved packet data is:
Expected checksum: 50784
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
```

```
packet's seqnum: 16640. last transmitted seqnum: 0
Last sent packet Checksum: 253043
Packet Corrupt!
Recieved checksum: 929, seqnum: 16640, acknum: 1
Recieved packet data is:
Expected checksum: 50784
A: no valid ACK, got instead with corruption. Resending packet with
checksum 253043 and data d%=Vo*C[txja24Mf~9Rk.
B gettin' a packet with segnum 0, and checksum 253043
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1105
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1105
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 253043 and data d%=Vo*C[txja24Mf~9Rk.
B gettin' a packet with segnum 0, and checksum 253043
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
A: 614461.1096, Layer 5 to 4 Message = 1J(dB)[9uS1ml)eC^{-}:v
   614581.8248, Layer 5 to 4 Message = m]L;+xhWG6&scmB1~n^M
A timed out. Sending packet with seqnum 0, and checksum 253043 again
A timed out. Sending packet with seqnum 0, and checksum 253043 again
A: 615442.0664, Layer 5 to 4 Message = nopqrstuvwxyz{n}~!#$
A timed out. Sending packet with segnum 0, and checksum 253043 again
B gettin' a packet with seqnum 0, and checksum 253043
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 253043
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: k7b.X%OyFp<k3^*T~KuB
A sending packet with segnum 1 and checksum 243904 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 243904
Packet Corrupt!
Recieved checksum: 243904, seqnum: 1, acknum: 0
Recieved packet data is: k*b.X%OyFp<k3^7T~KuB
Expected checksum: 246777
Packet Corrupt!
Recieved checksum: 243904, seqnum: 1, acknum: 0
Recieved packet data is: k*b.X%OyFp<k3^7T~KuB
Expected checksum: 246777
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 3669
```

```
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 3669
A: no valid ACK, got instead with corruption. Resending packet with
checksum 243904 and data k7b.X%OyFp<k3^*T~KuB.
B gettin' a packet with segnum 1, and checksum 243904
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 615678.2701, Layer 4 to 5 Message = k7b.X%OyFp<k3^*T~KuB
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: lJ(dB)[9uS1ml)eC~]:v
A sending packet with seqnum 0 and checksum 256795 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 256795
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 615712.4949, Layer 4 to 5 Message = 1J(dB)[9uS1m1)eC^{-}:v
Setting comp segnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 256795 again
B gettin' a packet with segnum 0, and checksum 256795
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 256795
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: m]L;+xhWG6&scmB1~n^M
A sending packet with seqnum 1 and checksum 252680 from the queue
A sending packet to B
B gettin' a packet with seqnum 1660944385, and checksum 252680
Packet Corrupt!
Recieved checksum: 252680, seqnum: 1660944385, acknum: 0
Recieved packet data is: m]L; +xhWG6&s
Expected checksum: 688101805
Packet Corrupt!
Recieved checksum: 252680, segnum: 1660944385, acknum: 0
Recieved packet data is: m]L;+xhWG6&s
Expected checksum: 688101805
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 252680 and data m]L;+xhWG6&scmB1~n^M. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 252680
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 616261.2953, Layer 4 to 5 Message = m]L;+xhWG6&scmB1~n^M
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
```

```
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: -35868
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: -35868
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 252680 and data m]L;+xhWG6&scmB1~n^M.
B gettin' a packet with seqnum 1, and checksum 252680
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 252680
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: nopqrstuvwxyz{n}~!#$
A sending packet with segnum 0 and checksum 252474 from the queue
A sending packet to B
B gettin' a packet with segnum 8448, and checksum 252474
Packet Corrupt!
Recieved checksum: 252474, segnum: 8448, acknum: 0
Recieved packet data is: nopqrstuvwxyz{n}~
Expected checksum: 267126
Packet Corrupt!
Recieved checksum: 252474, seqnum: 8448, acknum: 0
Recieved packet data is: nopgrstuvwxyz{n}~
Expected checksum: 267126
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 252474 and data nopqrstuvwxyz{n}~!#$. corrupted from
A to B, resending
A: 616793.3970, Layer 5 to 4 Message = of6I[n#5Hzm!4G3o~3FX
A timed out. Sending packet with seqnum 0, and checksum 252474 again
B gettin' a packet with seqnum 28416, and checksum 252474
Packet Corrupt!
Recieved checksum: 252474, segnum: 28416, acknum: 0
Recieved packet data is: n
Expected checksum: 337278
Packet Corrupt!
Recieved checksum: 252474, seqnum: 28416, acknum: 0
Recieved packet data is: n
Expected checksum: 337278
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, segnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -11736
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 0
Recieved packet data is: NAK
```

```
Expected checksum: -11736
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 252474 and data nopgrstuvwxyz{n}~!#$.
B gettin' a packet with seqnum 0, and checksum 252474
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 616865.2706, Layer 4 to 5 Message = nopgrstuvwxyz{n}~!#$
Setting comp segnum from 0 to 1
A: 617056.1\overline{1}74, Layer 5 to 4 Message = p6Z\sim EixSw=b (Lp6ZpEix
A timed out. Sending packet with seqnum 0, and checksum 252474 again
B gettin' a packet with seqnum 0, and checksum 252474
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 252474 again
A timed out. Sending packet with segnum 0, and checksum 252474 again
B gettin' a packet with seqnum 0, and checksum 252474
Packet Corrupt!
Recieved checksum: 252474, segnum: 0, acknum: 113
Recieved packet data is: nop
Expected checksum: 250440
Packet Corrupt!
Recieved checksum: 252474, seqnum: 0, acknum: 113
Recieved packet data is: nop
Expected checksum: 250440
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 1
Recieved packet data is: NAK
Expected checksum: 934
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 1
Recieved packet data is: NAK
Expected checksum: 934
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 252474 and data nopqrstuvwxyz{n}~!#$.
B gettin' a packet with seqnum 0, and checksum 252474
Packet Corrupt!
Recieved checksum: 252474, segnum: 0, acknum: 0
Recieved packet data is: nopqr{tuvwxyzsn}~!#$
Expected checksum: 251194
Packet Corrupt!
Recieved checksum: 252474, seqnum: 0, acknum: 0
Recieved packet data is: nopqr{tuvwxyzsn}~!#$
Expected checksum: 251194
Packet corrupt
Sending bACK a NAK!
   618678.2828, Layer 5 to 4 Message = dI~V.d;qI~V.2;qI~q.d
A timed out. Sending packet with seqnum 0, and checksum 252474 again
A timed out. Sending packet with segnum 0, and checksum 252474 again
B gettin' a packet with seqnum 0, and checksum 252474
Packet Corrupt!
Recieved checksum: 252474, seqnum: 0, acknum: 0
Recieved packet data is: nopqrstuvwxy{zn}~!#$
Expected checksum: 252447
Packet Corrupt!
Recieved checksum: 252474, seqnum: 0, acknum: 0
```

```
Recieved packet data is: nopqrstuvwxy{zn}~!#$
Expected checksum: 252447
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 252474
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: of6I[n#5HZm!4G3o~3FX
A sending packet with segnum 1 and checksum 222217 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 222217 again
B gettin' a packet with seqnum 1, and checksum 222217
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 619897.7820, Layer 4 to 5 Message = of6I[n#5HZm!4G3o~3FX
Setting comp segnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 222217 again
B gettin' a packet with segnum 1, and checksum 222217
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
   620519.3087, Layer 5 to 4 Message = r[E.u H1xbK4{eN7}\sim hr:
   620832.1595, Layer 5 to 4 Message = snid YTOJE?:50+&~yts
A timed out. Sending packet with seqnum 1, and checksum 222217 again
B gettin' a packet with seqnum 1, and checksum 222217
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 222217
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: p6Z~EixSw=b(Lp6ZpEix
A sending packet with seqnum 0 and checksum 263746 from the queue
A sending packet to B
A: 620915.6572, Layer 5 to 4 Message = t#x; HTamy (4AMYfr~-9F
B gettin' a packet with segnum 0, and checksum 263746
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 620929.6326, Layer 4 to 5 Message = p6Z~EixSw=b(Lp6ZpEix
Setting comp_seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dI~V.d;qI~V.2;qI~q.d
A sending packet with seqnum 1 and checksum 247003 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 247003
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 620986.5708, Layer 4 to 5 Message = dI~V.d;qI~V.2;qI~q.d
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
```

```
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: AC
Expected checksum: 5057
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: AC
Expected checksum: 5057
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 247003 and data dI~V.d;qI~V.2;qI~q.d.
B gettin' a packet with segnum 1, and checksum 247003
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 247003
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: r[E.u HlxbK4{eN7~hr:
A sending packet with segnum 0 and checksum 257527 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 257527 again
A timed out. Sending packet with segnum 0, and checksum 257527 again
B gettin' a packet with segnum 0, and checksum 257527
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 622009.7801, Layer 4 to 5 Message = r[E.u H1xbK4{eN7~hr}:
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, segnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 5024
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 5024
A: no valid ACK, got instead with corruption. Resending packet with
checksum 257527 and data r[E.u HlxbK4{eN7~hr:.
B gettin' a packet with seqnum 0, and checksum 257527
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 257527
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: snid YTOJE?:50+&~yts
A sending packet with segnum 1 and checksum 247908 from the queue
A sending packet to B
A: 622450.9269, Layer 5 to 4 Message = uuSq10m-Ki)Ge%Ca~>]z
A timed out. Sending packet with seqnum 1, and checksum 247908 again
B gettin' a packet with segnum 1, and checksum 247908
Packet Corrupt!
Recieved checksum: 247908, seqnum: 1, acknum: 0
```

Recieved packet data is: snidsYTOJE?:50+&~yt_

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Recieved checksum: 247908, segnum: 1, acknum: 0
Recieved packet data is: snidsYTOJE?:50+&~yt
Expected checksum: 240408
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 247908 and data snid YTOJE?:50+&~yts. corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 247908
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   622596.2957, Layer 4 to 5 Message = snid YTOJE?:50+&~yts
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: t#x; HTamy (4AMYfr~-9F
A sending packet with segnum 0 and checksum 230371 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 230371
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 622614.6324, Layer 4 to 5 Message = t#x; HTamy (4AMYfr~-9F
Setting comp_seqnum from 0 to 1
A: 622793.5\overline{1}12, Layer 5 to 4 Message = vHvIxJyKzL{M|N}O~P!Q
A timed out. Sending packet with seqnum 0, and checksum 230371 again
B gettin' a packet with segnum 0, and checksum 230371
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 230371 again
A timed out. Sending packet with seqnum 0, and checksum 230371 again
B gettin' a packet with seqnum 0, and checksum 230371
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 230371
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: uuSq10m-Ki)Ge%Ca~>]z
A sending packet with seqnum 1 and checksum 250219 from the queue
A sending packet to B
A: 624372.3064, Layer 5 to 4 Message = wZ=wbE(iLxpS6wZ=\sim bE(
A timed out. Sending packet with seqnum 1, and checksum 250219 again
A timed out. Sending packet with seqnum 1, and checksum 250219 again
A: 625535.7609, Layer 5 to 4 Message = dfbVx?4) {peY2C3,~sh}
A timed out. Sending packet with segnum 1, and checksum 250219 again
B gettin' a packet with seqnum 29953, and checksum 250219
Packet Corrupt!
Recieved checksum: 250219, segnum: 29953, acknum: 0
Recieved packet data is: u
Expected checksum: 339607
Packet Corrupt!
Recieved checksum: 250219, seqnum: 29953, acknum: 0
```

Expected checksum: 240408

Packet Corrupt!

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Recieved packet data is: u
Expected checksum: 339607
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1036
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 250219
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1036
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 250219 and data uuSq10m-Ki)Ge%Ca~>]z.
B gettin' a packet with seqnum 1, and checksum 250219
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 625670.5166, Layer 4 to 5 Message = uuSq10m-Ki)Ge%Ca~>]z
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: vHvIxJyKzL{M|N}O~P!Q
A sending packet with seqnum 0 and checksum 253645 from the queue
A sending packet to B
A timed out. Sending packet with segnum 0, and checksum 253645 again
B gettin' a packet with segnum 4980736, and checksum 253645
Packet Corrupt!
Recieved checksum: 253645, seqnum: 4980736, acknum: 0
Recieved packet data is: vHvIxJyKz
Expected checksum: 15188253
Packet Corrupt!
Recieved checksum: 253645, seqnum: 4980736, acknum: 0
Recieved packet data is: vHvIxJyKz
Expected checksum: 15188253
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -24496
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -24496
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 253645 and data vHvIxJyKzL\{M|N\}O\sim P!Q.
B gettin' a packet with segnum 0, and checksum 253645
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 626236.5476, Layer 4 to 5 Message = vHvIxJyKzL{M|N}O\simP!Q
```

```
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 253645 again
A: 626753.0800, Layer 5 to 4 Message = y!(.4yAGMSY`flrx~'-3
A timed out. Sending packet with seqnum 0, and checksum 253645 again
B gettin' a packet with seqnum 0, and checksum 253645
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 253645
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: wZ=wbE(iLxpS6wZ=~bE(
A sending packet with seqnum 1 and checksum 237523 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 237523 again
   627955.2512, Layer 5 to 4 Message = z4Ld{5ze|6Nf}70g~8Ph
   628258.3961, Layer 5 to 4 Message = {Gp;e0Y{NwCl7a,U~Js>
A timed out. Sending packet with segnum 1, and checksum 237523 again
B gettin' a packet with seqnum 1, and checksum 13868803
Packet Corrupt!
Recieved checksum: 13868803, seqnum: 1, acknum: 0
Recieved packet data is: wZ=wbE(iLxpS6wZ=~bE(
Expected checksum: 237523
Packet Corrupt!
Recieved checksum: 13868803, seqnum: 1, acknum: 0
Recieved packet data is: wZ=wbE(iLxpS6wZ=~bE(
Expected checksum: 237523
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 237523 and data wZ=wbE(iLxpS6wZ=~bE(. corrupted from
A to B, resending
B gettin' a packet with seqnum 30465, and checksum 237523
Packet Corrupt!
Recieved checksum: 237523, seqnum: 30465, acknum: 0
Recieved packet data is: wZ=
Expected checksum: 327011
Packet Corrupt!
Recieved checksum: 237523, segnum: 30465, acknum: 0
Recieved packet data is: wZ=
Expected checksum: 327011
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 237523 and data wZ=wbE(iLxpS6wZ=~bE(. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 237523
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 628354.2651, Layer 4 to 5 Message = wZ=wbE(iLxpS6wZ=\sim bE(
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 50331812, seqnum: 1, acknum: 1
Recieved packet data is: ACK
```

```
Expected checksum: 932
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 50331812, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 932
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 237523 and data wZ=wbE(iLxpS6wZ=~bE(.
A timed out. Sending packet with segnum 1, and checksum 237523 again
B gettin' a packet with segnum 1, and checksum 237523
Packet Corrupt!
Recieved checksum: 237523, seqnum: 1, acknum: 0
Recieved packet data is: wZ=wbE(iLxpS6w(=~bEZ
Expected checksum: 246273
Packet Corrupt!
Recieved checksum: 237523, segnum: 1, acknum: 0
Recieved packet data is: wZ=wbE(iLxpS6w(=~bEZ
Expected checksum: 246273
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 237523
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dfbVx?4) {peY2C3,~sh]
A sending packet with segnum 0 and checksum 252068 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 252068
Packet Corrupt!
Recieved checksum: 252068, segnum: 0, acknum: 0
Recieved packet data is: bfb3x?4) {peYVC3,~sh]
Expected checksum: 257590
Packet Corrupt!
Recieved checksum: 252068, seqnum: 0, acknum: 0
Recieved packet data is: bfb3x?4) {peYVC3,~sh]
Expected checksum: 257590
Packet corrupt
Sending bACK a NAK!
   629215.3610, Layer 5 to 4 Message = |Y6qN+fC|Z7rO,qD~[8s
A timed out. Sending packet with segnum 0, and checksum 252068 again
B gettin' a packet with segnum 0, and checksum 229028
Packet Corrupt!
Recieved checksum: 229028, segnum: 0, acknum: 0
Recieved packet data is: bfbVx?4) {peY3C3,Øsh]
Expected checksum: 204261
Packet Corrupt!
Recieved checksum: 229028, seqnum: 0, acknum: 0
Recieved packet data is: bfbVx?4) {peY3C3,Øsh]
Expected checksum: 204261
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 252068 and data dfbVx?4) {peY2C3,~sh]. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 252068
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
```

```
B sending message up to layer 5 and updating newest recieved data
B: 629418.2831, Layer 4 to 5 Message = dfbVx?4) {peY2C3,~sh}
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: y!(.4yAGMSY`flrx~'-3
A sending packet with segnum 1 and checksum 234261 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 234261
Packet Corrupt!
Recieved checksum: 234261, seqnum: 1, acknum: 0
Recieved packet data is: y`(.4yAGMSY!flrx~'-3
Expected checksum: 225441
Packet Corrupt!
Recieved checksum: 234261, seqnum: 1, acknum: 0
Recieved packet data is: y`(.4yAGMSY!flrx~'-3
Expected checksum: 225441
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 234261 and data y!(.4yAGMSY`flrx~'-3. corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 234261
Packet Corrupt!
Recieved checksum: 234261, seqnum: 1, acknum: 0
Recieved packet data is: y!(.4YAGMSy`flrx~'-3
Expected checksum: 236981
Packet Corrupt!
Recieved checksum: 234261, segnum: 1, acknum: 0
Recieved packet data is: y!(.4YAGMSy`flrx~'-3
Expected checksum: 236981
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 234261 again
B gettin' a packet with seqnum 1, and checksum 234261
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 629998.2402, Layer 4 to 5 Message = y!(.4yAGMSY`flrx~'-3
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 164, segnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1079
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 164, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1079
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 234261 and data y!(.4yAGMSY`flrx~'-3.
B gettin' a packet with seqnum 7077889, and checksum 234261
Packet Corrupt!
Recieved checksum: 234261, segnum: 7077889, acknum: 0
Recieved packet data is: y!(.4yAGMSY`f
Expected checksum: 21446757
Packet Corrupt!
```

```
Recieved checksum: 234261, seqnum: 7077889, acknum: 0
Recieved packet data is: y!(.4yAGMSY`f
Expected checksum: 21446757
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 234261 again
B gettin' a packet with seqnum 1, and checksum 234261
incorrect seanum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 234261
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: z4Ld{5ze|6Nf}70g~8Ph
A sending packet with seqnum 0 and checksum 260618 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 210698
Packet Corrupt!
Recieved checksum: 210698, seqnum: 0, acknum: 0
Recieved packet data is: z4Ld{5ze|6Nf}úOg~8Ph
Expected checksum: 248662
Packet Corrupt!
Recieved checksum: 210698, segnum: 0, acknum: 0
Recieved packet data is: z4Ld{5ze|6Nf}úOg~8Ph
Expected checksum: 248662
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 260618 and data z4Ld{5ze|6Nf}70g~8Ph. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 260618
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 630541.8012, Layer 4 to 5 Message = z4Ld{5ze|6Nf}70g~8Ph
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: {Gp;e0Y{NwCl7a,U~Js>
A sending packet with segnum 1 and checksum 247320 from the queue
A sending packet to B
A: 630854.8885, Layer 5 to 4 Message = }1ZI7&raO},xgUD2~m[J
A timed out. Sending packet with seqnum 1, and checksum 247320 again
B gettin' a packet with seqnum 1, and checksum 247320
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 631070.9681, Layer 4 to 5 Message = \{Gp; e0Y\{NwCl7a, U\sim Js>\}\}
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: |Y6qN+fC|Z7rO,qD~[8s
A sending packet with segnum 0 and checksum 252268 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 252268 again
```

```
B gettin' a packet with seqnum 0, and checksum 252268
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
\ensuremath{\mathtt{B}} sending message up to layer 5 and updating newest recieved data
B: 631596.0798, Layer 4 to 5 Message = |Y6qN+fC|Z7rO, gD\sim[8s]
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: }1ZI7&raO},xgUD2~m[J
A sending packet with segnum 1 and checksum 254849 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 254849
Packet Corrupt!
Recieved checksum: 254849, seqnum: 1, acknum: 44
Recieved packet data is: }lZI7&raO}
Expected checksum: 249437
Packet Corrupt!
Recieved checksum: 254849, segnum: 1, acknum: 44
Recieved packet data is: }lZI7&raO}
Expected checksum: 249437
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 254849 again
B gettin' a packet with seqnum 1, and checksum 254849
Packet Corrupt!
Recieved checksum: 254849, seqnum: 1, acknum: 5898240
Recieved packet data is: }l
Expected checksum: -11542441
Packet Corrupt!
Recieved checksum: 254849, segnum: 1, acknum: 5898240
Recieved packet data is: }1
Expected checksum: -11542441
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 254849 and data }lZI7&raO},xgUD2~m[J. corrupted from
A to B, resending
632448.5130, Layer 5 to 4 Message = !3EVhy->Pbs'2J[m~2DU
A timed out. Sending packet with segnum 1, and checksum 254849 again
B gettin' a packet with segnum 1, and checksum 254849
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 632619.6121, Layer 4 to 5 Message = }1ZI7&raO},xgUD2~m[J
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 6091
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 6091
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 254849 and data }lZI7&raO},xgUD2~m[J.
```

```
B gettin' a packet with seqnum 1, and checksum 254849
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 254849
Not corrupt, but bad sequence number, sending next boi
A sending packet with segnum 0 and checksum 361543 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 361543
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: !3EVhy->Pbs'2J[m~2DU
A sending packet with seqnum 1 and checksum 233595 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 233595
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 632723.7081, Layer 4 to 5 Message = !3EVhy->Pbs'2J[m~2DU
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 633783.3076, Layer 5 to 4 Message = \#\text{i.Qt9}]!Eh-Ps8[~Dg,
A sending packet with segnum 0 and checksum 230547
A sending packet to B
A: 633836.7476, Layer 5 to 4 Message = f$d:oFzQ(]3h>3J~U,a
A timed out. Sending packet with seqnum 0, and checksum 230547 again
B gettin' a packet with seqnum 0, and checksum 230547
Packet Corrupt!
Recieved checksum: 230547, seqnum: 0, acknum: 0
Recieved packet data is: t#i.Q#9]!Eh-Ps8[~Dq,
Expected checksum: 227712
Packet Corrupt!
Recieved checksum: 230547, seqnum: 0, acknum: 0
Recieved packet data is: t#i.Q#9]!Eh-Ps8[~Dg,
Expected checksum: 227712
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 230547 again
B gettin' a packet with seqnum 0, and checksum 230547
Packet Corrupt!
Recieved checksum: 230547, segnum: 0, acknum: 0
Recieved packet data is: ~#i.Qt9]!Eh-Ps8[#Dg,
Expected checksum: 204339
Packet Corrupt!
Recieved checksum: 230547, seqnum: 0, acknum: 0
Recieved packet data is: ~#i.Qt9]!Eh-Ps8[#Dg,
Expected checksum: 204339
Packet corrupt
```

```
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 230547 again
B gettin' a packet with seqnum 0, and checksum 230547
Packet Corrupt!
Recieved checksum: 230547, seqnum: 0, acknum: 0
Recieved packet data is: #Qi.#t9]!Eh-Ps8[~Dq,
Expected checksum: 229581
Packet Corrupt!
Recieved checksum: 230547, seqnum: 0, acknum: 0
Recieved packet data is: #Qi.#t9]!Eh-Ps8[~Dq,
Expected checksum: 229581
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 19461
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 19461
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 230547 and data ##i.Qt9]!Eh-Ps8[~Dg,.
A: 635498.4023, Layer 5 to 4 Message = kS%jR:#iQ9!hP8~gO7
A timed out. Sending packet with seqnum 0, and checksum 230547 again
A timed out. Sending packet with seqnum 0, and checksum 230547 again
B gettin' a packet with seqnum 0, and checksum 230547
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 636313.1447, Layer 4 to 5 Message = ##i.Qt9]!Eh-Ps8[~Dq,
Setting comp segnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 230547 again
B gettin' a packet with seqnum 0, and checksum 230547
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 230547
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: $f$d:oFzQ(]3h>3J~U,a
A sending packet with seqnum 1 and checksum 226921 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 226921 again
B gettin' a packet with segnum 1, and checksum 226921
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   637327.9598, Layer 4 to 5 Message = $f$d:oFzQ(]3h>3J~U,a
Setting comp segnum from 1 to 0
A: 637599.8\overline{6}64, Layer 5 to 4 Message = '2=IT'kv$x:FQ]hs~,7C
A timed out. Sending packet with seqnum 1, and checksum 226921 again
B gettin' a packet with segnum 1, and checksum 226921
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
```

```
A timed out. Sending packet with seqnum 1, and checksum 226921 again
B gettin' a packet with seqnum 1, and checksum 226921
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A: 638569.6488, Layer 5 to 4 Message = (Eb\sim=Z(6SpxLi(Eb\sim=Zw))
A timed out. Sending packet with seqnum 1, and checksum 226921 again
B gettin' a packet with seqnum 1, and checksum 7304809
Packet Corrupt!
Recieved checksum: 7304809, segnum: 1, acknum: 0
Recieved packet data is: $f$d: FzQ(]3h>3J~U,a
Expected checksum: 223033
Packet Corrupt!
Recieved checksum: 7304809, seqnum: 1, acknum: 0
Recieved packet data is: $f$d: FzQ(]3h>3J~U,a
Expected checksum: 223033
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 226921
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: %kS%$jR:#iQ9!hP8~g07
A sending packet with segnum 0 and checksum 224119 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 224119 again
B gettin' a packet with segnum 0, and checksum 224119
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 639337.0043, Layer 4 to 5 Message = %kS%$jR:#iQ9!hP8~qO7
Setting comp segnum from 0 to 1
A: 639472.0\overline{6}53, Layer 5 to 4 Message = dW(V'U\&)%S$R2Q!P\simON
A timed out. Sending packet with seqnum 0, and checksum 224119 again
B gettin' a packet with seqnum 0, and checksum 224119
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 224119
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: &}wq&e_XRLF?93-'~xrl
A sending packet with segnum 1 and checksum 249386 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 227370
Packet Corrupt!
Recieved checksum: 227370, seqnum: 1, acknum: 0
Recieved packet data is: &}wq&e XRLF?93-'~Îrl
Expected checksum: 194306
Packet Corrupt!
Recieved checksum: 227370, segnum: 1, acknum: 0
Recieved packet data is: & \ wq&e XRLF?93-'~Îrl
Expected checksum: 194306
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
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Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1080
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 249386
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1080
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 249386 and data & \ wq&e XRLF?93-'~xrl.
B gettin' a packet with seqnum 1, and checksum 249386
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1098
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 249386
Packet Corrupt!
Recieved checksum: 932, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1098
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 249386 and data & \ wq&e XRLF?93-'~xrl.
B gettin' a packet with segnum 1, and checksum 249386
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 2019
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 249386
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 2019
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 249386 and data & \ wq&e XRLF?93-'~xrl.
B gettin' a packet with seqnum 1, and checksum 249386
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 249386
```

```
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: '2=IT'kv$x:FQ]hs~,7C
A sending packet with seqnum 0 and checksum 232274 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 232274
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 640006.1666, Layer 4 to 5 Message = '2=IT'kv$x:FQ]hs~,7C
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: (Eb~=Z(6SpxLi(Eb~=Zw
A sending packet with seqnum 1 and checksum 259174 from the queue
A sending packet to B
   640453.4140, Layer 5 to 4 Message = *jL.nP2r*6vX:z]>~aC%
A timed out. Sending packet with seqnum 1, and checksum 259174 again
A: 640965.7059, Layer 5 to 4 Message = +|pdWK>2&+k RF9-~rfY
A timed out. Sending packet with seqnum 1, and checksum 259174 again
   641228.4806, Layer 5 to 4 Message = ,16;AFKPUZ,ejoty~&+0
A timed out. Sending packet with seqnum 1, and checksum 259174 again
B gettin' a packet with seqnum 1, and checksum 259174
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 641547.7380, Layer 4 to 5 Message = (Eb~=Z(6SpxLi(Eb~=Zw
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 259174 again
B gettin' a packet with seqnum 1, and checksum 259174
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 259174
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dW(V'U&)%S$R2Q!P~O}N
A sending packet with seqnum 0 and checksum 228655 from the queue
A sending packet to B
B gettin' a packet with segnum 25088, and checksum 228655
Packet Corrupt!
Recieved checksum: 228655, segnum: 25088, acknum: 0
Recieved packet data is:
Expected checksum: 303988
Packet Corrupt!
Recieved checksum: 228655, seqnum: 25088, acknum: 0
Recieved packet data is:
Expected checksum: 303988
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 228655 and data dW(V'U\&)%S$R2Q!P~O\}N. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 228655
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
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B: 642091.1641, Layer 4 to 5 Message = dW(V'U\&) %S$R2Q!P~O}N
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: *jL.nP2r*6vX:z]>~aC%
A sending packet with seqnum 1 and checksum 230280 from the queue
A sending packet to B
   642259.2275, Layer 5 to 4 Message = -fZg*AWn'=T-$:3h~7Ne
A:
A timed out. Sending packet with segnum 1, and checksum 230280 again
B gettin' a packet with segnum 1, and checksum 230280
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 642602.3982, Layer 4 to 5 Message = *jL.nP2r*6vX:z]>~aC%
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 230280 again
B gettin' a packet with seqnum 1, and checksum 230280
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 230280
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: +|pdWK>2&+k RF9-~rfY
A sending packet with segnum 0 and checksum 245883 from the queue
A sending packet to B
A: 643542.5017, Layer 5 to 4 Message = .V~Iq;d.V~Iq.d.V~Iq;
A timed out. Sending packet with seqnum 0, and checksum 245883 again
B gettin' a packet with segnum 0, and checksum 245883
Packet Corrupt!
Recieved checksum: 245883, seqnum: 0, acknum: 0
Recieved packet data is: +|>dWKp2&+k RF9-~rfY
Expected checksum: 247883
Packet Corrupt!
Recieved checksum: 245883, seqnum: 0, acknum: 0
Recieved packet data is: +|>dWKp2&+k RF9-~rfY
Expected checksum: 247883
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 245883 again
B gettin' a packet with segnum 0, and checksum 245883
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 644143.9564, Layer 4 to 5 Message = +|pdWK>2&+k RF9-~rfY
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 245883 again
B gettin' a packet with seqnum 0, and checksum 245883
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 245883
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ,16;AFKPUZ,ejoty~&+0
```

```
A sending packet with seqnum 1 and checksum 230484 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 230484
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 644663.2824, Layer 4 to 5 Message = ,16;AFKPUZ,ejoty~&+0
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: -fZq*AWn'=T-$:3h~7Ne
A sending packet with seqnum 0 and checksum 221933 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 221933
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 644699.3131, Layer 4 to 5 Message = -fZq*AWn'=T-$:3h~7Ne
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: .V~Iq;d.V~Iq.d.V~Iq;
A sending packet with seqnum 1 and checksum 244281 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 211769
Packet Corrupt!
Recieved checksum: 211769, seqnum: 1, acknum: 0
Recieved packet data is: .V~Iq;d.V~Iq.d.V~Iq°
Expected checksum: 192681
Packet Corrupt!
Recieved checksum: 211769, seqnum: 1, acknum: 0
Recieved packet data is: .V~Iq;d.V~Iq.d.V~Iq°
Expected checksum: 192681
Packet corrupt
Sending bACK a NAK!
A: 645059.1936, Layer 5 to 4 Message = xiE \sim Z6pL (b=wSxiE \sim Z6p
A timed out. Sending packet with seqnum 1, and checksum 244281 again
   645497.0039, Layer 5 to 4 Message = d{iVD1|jWE2}2X03~1YG
A timed out. Sending packet with seqnum 1, and checksum 244281 again
B gettin' a packet with segnum 1, and checksum 244281
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
\ensuremath{\mathtt{B}} sending message up to layer 5 and updating newest recieved data
B: 645709.9120, Layer 4 to 5 Message = .V\sim Iq;d.V\sim Iq.d.V\sim Iq;
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: xiE~Z6pL(b=wSxiE~Z6p
A sending packet with segnum 0 and checksum 263907 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 263907
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 645739.6420, Layer 4 to 5 Message = xiE~Z6pL(b=wSxiE~Z6p
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
```

```
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AKC
Expected checksum: 889
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AKC
Expected checksum: 889
A: no valid ACK, got AKC instead with corruption. Resending packet with
checksum 263907 and data xiE~Z6pL(b=wSxiE~Z6p.
A timed out. Sending packet with seqnum 0, and checksum 263907 again
A: 646623.4195, Layer 5 to 4 Message = 10x.-,+*) ('&%$#1~}|{
A timed out. Sending packet with seqnum 0, and checksum 263907 again
A: 647237.9314, Layer 5 to 4 Message = 2CSdt'7HXiy,<M^n21BR
A timed out. Sending packet with seqnum 0, and checksum 263907 again
B gettin' a packet with seqnum 0, and checksum 263907
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 263907 again
B gettin' a packet with seqnum 0, and checksum 263907
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 263907
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d{iVD1|jWE2}2X03~1YG
A sending packet with segnum 1 and checksum 238649 from the queue
A sending packet to B
A timed out. Sending packet with segnum 1, and checksum 238649 again
B gettin' a packet with seqnum 1, and checksum 238649
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 648270.7330, Layer 4 to 5 Message = d\{iVD1|jWE2\}2X03\sim1YG
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 238649 again
   648824.4630, Layer 5 to 4 Message = 3Uw;^!Df*Ln2Tv:]~3e)
A timed out. Sending packet with seqnum 1, and checksum 238649 again
A timed out. Sending packet with seqnum 1, and checksum 238649 again
A: 650129.0404, Layer 5 to 4 Message = 4h=qGzP&Yxc8lBuK~T4^
A timed out. Sending packet with segnum 1, and checksum 238649 again
B gettin' a packet with seqnum 1, and checksum 238649
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 238649
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 10x.-,+*)('&%$#1~}|{}
A sending packet with segnum 0 and checksum 231602 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 231602
Packet Corrupt!
Recieved checksum: 231602, seqnum: 0, acknum: 0
```

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Recieved packet data is: 10x.-,+) ('&%*#1~}|{
Expected checksum: 232394
Packet Corrupt!
Recieved checksum: 231602, seqnum: 0, acknum: 0
Recieved packet data is: 10x.-,+) ('&%*#1~}|{
Expected checksum: 232394
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 231602 and data 10x.-,+*) ('&%$#1~}|{. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 231602
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   650328.9211, Layer 4 to 5 Message = 10x.-,+*) ('&%$\$1~}|{
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: 2CSdt'7HXiy, <M^n21BR
A sending packet with seqnum 1 and checksum 214297 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 214297
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 650382.2239, Layer 4 to 5 Message = 2CSdt'7HXiy, <M^n21BR
Setting comp seqnum from 1 to 0
A: 650501.6147, Layer 5 to 4 Message = 5zbI0u]D+pW>&kR9~fM5
A timed out. Sending packet with segnum 1, and checksum 214297 again
A: 650875.2899, Layer 5 to 4 Message = 6f(~wpibZSLE=63(~wpi
A: 651189.3087, Layer 5 to 4 Message = d7LVaku!, 6AK2 = t^{2}
A timed out. Sending packet with seqnum 1, and checksum 214297 again
B gettin' a packet with seqnum 1, and checksum 214297
Packet Corrupt!
Recieved checksum: 214297, seqnum: 1, acknum: 0
Recieved packet data is: 2CSd, '7HXiyt<M^n21BR
Expected checksum: 222865
Packet Corrupt!
Recieved checksum: 214297, segnum: 1, acknum: 0
Recieved packet data is: 2CSd, '7HXiyt<M^n21BR
Expected checksum: 222865
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 214297 again
B gettin' a packet with seqnum 1, and checksum 214297
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 214297
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 3Uw;^!Df*Ln2Tv:]~3e)
A sending packet with segnum 0 and checksum 227220 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 227220
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```
Packet Corrupt!
Recieved checksum: 227220, seqnum: 0, acknum: 0
Recieved packet data is: 3fw;^!DU*Ln2Tv:]~3e)
Expected checksum: 226200
Packet Corrupt!
Recieved checksum: 227220, seqnum: 0, acknum: 0
Recieved packet data is: 3fw;^!DU*Ln2Tv:]~3e)
Expected checksum: 226200
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 227220 and data 3Uw;^!Df*Ln2Tv:]~3e). corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 229012
Packet Corrupt!
Recieved checksum: 229012, seqnum: 0, acknum: 0
Recieved packet data is: 3Uw;^!Df*Ln2Tv:]w3e)
Expected checksum: 225197
Packet Corrupt!
Recieved checksum: 229012, seqnum: 0, acknum: 0
Recieved packet data is: 3Uw;^!Df*Ln2Tv:]w3e)
Expected checksum: 225197
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 227220 and data 3Uw; ^!Df*Ln2Tv:]~3e). corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 227220
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 651961.3616, Layer 4 to 5 Message = 3Uw; ^!Df*Ln2Tv:]~3e)
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 227220 again
A: 652903.3284, Layer 5 to 4 Message = 8T8.Jf\$?[w5Qm+Gc~<Xt]
A timed out. Sending packet with seqnum 0, and checksum 227220 again
B gettin' a packet with seqnum 0, and checksum 227220
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 227220
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 4h=qGzP&Yxc8lBuK~T4^
A sending packet with segnum 1 and checksum 251237 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 251237
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 652959.0459, Layer 4 to 5 Message = 4h=qGzP&Yxc8lBuK~T4^
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: 5zbIOu]D+pW>&kR9~fM5
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A sending packet with seqnum 0 and checksum 229868 from the queue
A sending packet to B
A timed out. Sending packet with segnum 0, and checksum 229868 again
B gettin' a packet with seqnum 0, and checksum 229868
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 653505.0203, Layer 4 to 5 Message = 5zbI0u]D+pW>&kR9~fM5
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: 6f(~wpibZSLE=63(~wpi
A sending packet with segnum 1 and checksum 255920 from the queue
A sending packet to B
A: 653531.9882, Layer 5 to 4 Message = 9g693a0^-Z*W'T$Q~N{K}
A timed out. Sending packet with seqnum 1, and checksum 255920 again
B gettin' a packet with seqnum 1, and checksum 255920
Packet Corrupt!
Recieved checksum: 255920, segnum: 1, acknum: 3538944
Recieved packet data is: 6f(~wpibZSLE=
Expected checksum: -6832552
Packet Corrupt!
Recieved checksum: 255920, segnum: 1, acknum: 3538944
Recieved packet data is: 6f(~wpibZSLE=
Expected checksum: -6832552
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 255920 again
A: 654912.5715, Layer 5 to 4 Message = :yZ;:[\{ \} = | ^> \} ?~`A!
A timed out. Sending packet with seqnum 1, and checksum 255920 again
B gettin' a packet with segnum 1, and checksum 255920
Packet Corrupt!
Recieved checksum: 255920, seqnum: 1, acknum: 0
Recieved packet data is: 6f(~wipbZSLE=63(~wpi
Expected checksum: 256011
Packet Corrupt!
Recieved checksum: 255920, seqnum: 1, acknum: 0
Recieved packet data is: 6f(~wipbZSLE=63(~wpi
Expected checksum: 256011
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 255920 and data 6f(~wpibZSLE=63(~wpi. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 255920
Packet Corrupt!
Recieved checksum: 255920, segnum: 1, acknum: 30464
Recieved packet data is: 6f(~
Expected checksum: 192017
Packet Corrupt!
Recieved checksum: 255920, segnum: 1, acknum: 30464
Recieved packet data is: 6f(~
Expected checksum: 192017
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
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```
Recieved packet data is:
Expected checksum: 8661
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 8661
A: no valid ACK, got instead with corruption. Resending packet with
checksum 255920 and data 6f(~wpibZSLE=63(~wpi.
B gettin' a packet with segnum 1, and checksum 255920
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 655080.4788, Layer 4 to 5 Message = 6f(~wpibZSLE=63(~wpi
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: d7LVaku!, 6AK2`jt~+5?
A sending packet with segnum 0 and checksum 219545 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 219545
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 655111.3081, Layer 4 to 5 Message = d7LVaku!, 6AK2`jt~+5?
Setting comp_seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 219545 again
B gettin' a packet with seqnum 0, and checksum 219545
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 219545
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 8T8.Jf$?[w5Qm+Gc~<Xt
A sending packet with seqnum 1 and checksum 252414 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 252414
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 655609.5377, Layer 4 to 5 Message = 8T8.Jf$?[w5Qm+Gc~<Xt
Setting comp_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: 9g693a0^-Z*W'T$Q~N{K
A sending packet with seqnum 0 and checksum 233160 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 233160
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 655635.2622, Layer 4 to 5 Message = 99693a0^-Z*W'T$Q~N{K}
Setting comp segnum from 0 to 1
A: 656064.3216, Layer 5 to 4 Message = ;.~qd;I;.~qdVI;.~qdV
A timed out. Sending packet with seqnum 0, and checksum 233160 again
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A: 656150.8418, Layer 5 to 4 Message = \langle AEIMQ \langle Y^bfjnrvz \sim \% \rangle -
A timed out. Sending packet with seqnum 0, and checksum 233160 again
B gettin' a packet with seqnum 0, and checksum 233160
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 233160 again
B gettin' a packet with seqnum 0, and checksum 233160
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 233160
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: :yZ;:[<{]=|^>} ?^A!
A sending packet with seqnum 1 and checksum 236597 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 236597
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 657159.3279, Layer 4 to 5 Message = :yZ;:[\{\}=|^>\} ?~`A!
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 4952
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, segnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 4952
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 236597 and data :yZ;:[<{]=|^>} ?~`A!.
B gettin' a packet with seqnum 1, and checksum 236597
Packet Corrupt!
Recieved checksum: 236597, seqnum: 1, acknum: 0
Recieved packet data is: yZ;:[\{ \} = | \}^?\sim A!
Expected checksum: 236516
Packet Corrupt!
Recieved checksum: 236597, seqnum: 1, acknum: 0
Recieved packet data is: :yZ;:[<{]=| >}^?~`A!
Expected checksum: 236516
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 236597
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ;.~qd;I;.~qdVI;.~qdV
A sending packet with seqnum 0 and checksum 256903 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 256903
Packet Corrupt!
Recieved checksum: 256903, seqnum: 0, acknum: 0
Recieved packet data is: ;.~qd;I;.~qdVI;.~Vdq
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Expected checksum: 258955
Packet Corrupt!
Recieved checksum: 256903, segnum: 0, acknum: 0
Recieved packet data is: ;.~qd;I;.~qdVI;.~Vdq
Expected checksum: 258955
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 1090519976, segnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 676
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 1090519976, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 676
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 256903 and data ;.~qd;I;.~qdVI;.~qdV.
A timed out. Sending packet with segnum 0, and checksum 256903 again
B gettin' a packet with seqnum 15400960, and checksum 196743
Packet Corrupt!
Recieved checksum: 196743, seqnum: 15400960, acknum: 0
Recieved packet data is: ;.~qd;I;.~qdVI;.~qdV
Expected checksum: 46459783
Packet Corrupt!
Recieved checksum: 196743, segnum: 15400960, acknum: 0
Recieved packet data is: ;.~qd;I;.~qdVI;.~qdV
Expected checksum: 46459783
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 256903 and data ;.~qd;I;.~qdVI;.~qdV. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 256903
Packet Corrupt!
Recieved checksum: 256903, seqnum: 0, acknum: 0
Recieved packet data is: ;.~qd.I;.~qdVI;;~qdV
Expected checksum: 259763
Packet Corrupt!
Recieved checksum: 256903, segnum: 0, acknum: 0
Recieved packet data is: ;.~qd.I;.~qdVI;;~qdV
Expected checksum: 259763
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 256903 and data ;.~qd;I;.~qdVI;.~qdV. corrupted from
A to B, resending
   657736.5786, Layer 5 to 4 Message = =Si~6Lb=xEZp(=Si~6Lb
A timed out. Sending packet with seqnum 0, and checksum 256903 again
B gettin' a packet with seqnum 0, and checksum 256903
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 658215.1930, Layer 4 to 5 Message = ;.~qd;I;.~qdVI;.~qdV
Setting comp segnum from 0 to 1
A: 658672.0736, Layer 5 to 4 Message = dfxV{Gn7>(Ov2g0W~Ho8
A timed out. Sending packet with seqnum 0, and checksum 256903 again
```

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A: 658959.7141, Layer 5 to 4 Message = ?fS.gBzU0?D|W23F\sim Y4m
A timed out. Sending packet with seqnum 0, and checksum 256903 again
B gettin' a packet with seqnum 0, and checksum 256903
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 256903
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: <AEIMQ<Y^bfjnrvz~%) -
A sending packet with seqnum 1 and checksum 240451 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 240451
Packet Corrupt!
Recieved checksum: 240451, seqnum: 1, acknum: 1090519040
Recieved packet data is: <
Expected checksum: 2114169407
Packet Corrupt!
Recieved checksum: 240451, seqnum: 1, acknum: 1090519040
Recieved packet data is: <
Expected checksum: 2114169407
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1371
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 171, segnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1371
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 240451 and data <AEIMQ<Y^bfjnrvz~%)-.
B gettin' a packet with seqnum 1, and checksum 240451
Packet Corrupt!
Recieved checksum: 240451, seqnum: 1, acknum: 8257536
Recieved packet data is: <AEIMQ<Y^bfjnrvz
Expected checksum: -16311035
Packet Corrupt!
Recieved checksum: 240451, segnum: 1, acknum: 8257536
Recieved packet data is: <AEIMQ<Y^bfjnrvz
Expected checksum: -16311035
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 240451 again
B gettin' a packet with segnum 1, and checksum 240451
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   659785.5493, Layer 4 to 5 Message = <AEIMQ<Y^bfjnrvz~%)-
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: =Si~6Lb=xEZp(=Si~6Lb
A sending packet with segnum 0 and checksum 244524 from the queue
```

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A sending packet to B
B gettin' a packet with seqnum 0, and checksum 4569900
Packet Corrupt!
Recieved checksum: 4569900, seqnum: 0, acknum: 0
Recieved packet data is: =Si~6Lb=x Zp(=Si~6Lb
Expected checksum: 237924
Packet Corrupt!
Recieved checksum: 4569900, segnum: 0, acknum: 0
Recieved packet data is: =Si~6Lb=x Zp(=Si~6Lb
Expected checksum: 237924
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 4915200, acknum: 0
Recieved packet data is: NA
Expected checksum: 14745861
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 4915200. last transmitted segnum: 0
Last sent packet Checksum: 244\overline{5}24
Packet Corrupt!
Recieved checksum: 936, seqnum: 4915200, acknum: 0
Recieved packet data is: NA
Expected checksum: 14745861
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 244524 and data =Si~6Lb=xEZp(=Si~6Lb.
B gettin' a packet with segnum 0, and checksum 244524
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
    659825.8826, Layer 4 to 5 Message = =Si\sim6Lb=xEZp(=Si\sim6Lb
Setting comp seqnum from 0 to 1
Printing the contents of the Simulation Event Q
Event Time = 660088.955 A: LAYER 5
Event Time = 660310.015 A: Timer
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dfxV}Gn7>(Ov2gOW~Ho8
A sending packet with segnum 1 and checksum 236977 from the queue
A sending packet to B
Printing the contents of the Simulation Event Q
Event Time = 660088.955 A: LAYER 5
Event Time = 660349.508 A: Timer
B gettin' a packet with seqnum 1, and checksum 236977
Packet Corrupt!
Recieved checksum: 236977, segnum: 1, acknum: 87
Recieved packet data is: bfxV}Gn7>(Ov3q0
Expected checksum: 214698
Packet Corrupt!
Recieved checksum: 236977, seqnum: 1, acknum: 87
Recieved packet data is: bfxV}Gn7>(Ov3g0
Expected checksum: 214698
Packet corrupt
Sending bACK a NAK!
```

```
Printing the contents of the Simulation Event Q
Event Time = 660088.955 A: LAYER 5
Event Time = 660349.508 A: Timer
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 171, segnum: 769, acknum: 0
Recieved packet data is: NAK
Expected checksum: 3243
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 769. last_transmitted seqnum: 1
Last sent packet Checksum: 236977
Packet Corrupt!
Recieved checksum: 171, seqnum: 769, acknum: 0
Recieved packet data is: NAK
Expected checksum: 3243
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 236977 and data dfxVGn7>(Ov2g0W~Ho8.
Printing the contents of the Simulation Event Q
Event Time = 660088.955 A: LAYER 5
Event Time = 660366.463 A: Timer
B gettin' a packet with seqnum 1, and checksum 236977
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 659874.3208, Layer 4 to 5 Message = dfxV}Gn7>(Ov2g0W~Ho8
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ?fS.gBzU0?D|W23F~Y4m
A sending packet with segnum 0 and checksum 236038 from the queue
A sending packet to B
B gettin' a packet with seqnum 6, and checksum 236032
Packet Corrupt!
Recieved checksum: 236032, seqnum: 6, acknum: 0
Recieved packet data is: ?fS.gBzU0?D|W23F~Y4m
Expected checksum: 236056
Packet Corrupt!
Recieved checksum: 236032, seqnum: 6, acknum: 0
Recieved packet data is: ?fS.qBzU0?D|W23F~Y4m
Expected checksum: 236056
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 236038 and data ?fS.gBzU0?D|W23F\sim Y4m. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 236038
Packet Corrupt!
Recieved checksum: 236038, seqnum: 0, acknum: 0
Recieved packet data is: ?fS.gBzU0D?|W23F~Y4m
Expected checksum: 235933
Packet Corrupt!
Recieved checksum: 236038, seqnum: 0, acknum: 0
Recieved packet data is: ?fS.gBzU0D?|W23F~Y4m
```

```
Expected checksum: 235933
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 236038 and data ?fS.gBzU0?D|W23F~Y4m. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 236038
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 659976.5981, Layer 4 to 5 Message = ?fS.gBzU0?D|W23F~Y4m
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, segnum: 75, acknum: 1
Recieved packet data is: AC
Expected checksum: 479
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 75. last transmitted seqnum: 0
Last sent packet Checksum: 236038
Packet Corrupt!
Recieved checksum: 929, segnum: 75, acknum: 1
Recieved packet data is: AC
Expected checksum: 479
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 236038 and data ?fS.gBzU0?D|W23F~Y4m.
B gettin' a packet with seqnum 0, and checksum 236038
Packet Corrupt!
Recieved checksum: 236038, seqnum: 0, acknum: 0
Recieved packet data is: ?fS.qBz|0?DUW23F~Y4m
Expected checksum: 232918
Packet Corrupt!
Recieved checksum: 236038, seqnum: 0, acknum: 0
Recieved packet data is: ?fS.gBz|0?DUW23F~Y4m
Expected checksum: 232918
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 236038
Not corrupt, but bad sequence number, sending next boi
A: 660088.9548, Layer 5 to 4 Message = A-wdP<)s`LA%o[H4~kWD
A sending packet with seqnum 1 and checksum 240736
A sending packet to B
B gettin' a packet with segnum 1, and checksum 240736
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   660118.3863, Layer 4 to 5 Message = A-wdP<)s`LA%o[H4~kWD
Setting comp seqnum from 1 to 0
A: 660158.8656, Layer 5 to 4 Message = B?=; 97531x-B) '%#~|zx
A timed out. Sending packet with seqnum 1, and checksum 240736 again
A timed out. Sending packet with segnum 1, and checksum 240736 again
B gettin' a packet with segnum 1, and checksum 240736
incorrect segnum
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expected segnum 0, got segnum 1Sending bACK a NAK!

```
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 240736
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: B?=;97531x-B)'%#~|zx
A sending packet with segnum 0 and checksum 242408 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 213736
Packet Corrupt!
Recieved checksum: 213736, seqnum: 0, acknum: 0
Recieved packet data is: B?=;97531x-2)'\% \#\sim |zx
Expected checksum: 221672
Packet Corrupt!
Recieved checksum: 213736, segnum: 0, acknum: 0
Recieved packet data is: B?=;97531x-2)'%\#\sim|zx
Expected checksum: 221672
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 1090519040, acknum: 0
Recieved packet data is: N
Expected checksum: -1023409500
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1090519040. last transmitted segnum: 0
Last sent packet Checksum: 242408
Packet Corrupt!
Recieved checksum: 936, segnum: 1090519040, acknum: 0
Recieved packet data is: N
Expected checksum: -1023409500
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 242408 and data B?=;97531x-B)'%\#~|zx.
B gettin' a packet with segnum 0, and checksum 242408
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
\ensuremath{\mathtt{B}} sending message up to layer 5 and updating newest recieved data
B: 661129.5129, Layer 4 to 5 Message = B?=;97531x-B)'%#~|zx
Setting comp segnum from 0 to 1
   661238.9204, Layer 5 to 4 Message = CRbg#2BQap!1CP`o~0?0
A timed out. Sending packet with segnum 0, and checksum 242408 again
B gettin' a packet with segnum 0, and checksum 242408
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 242408
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: CRbq#2BQap!1CP`o~0?0
A sending packet with seqnum 1 and checksum 227538 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 227538 again
B gettin' a packet with segnum 1, and checksum 227538
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
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B: 662177.8006, Layer 4 to 5 Message = CRbq#2BQap!1CP`o~0?0
Setting comp seqnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 227538 again
B gettin' a packet with seqnum 1, and checksum 227538
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 227538
Not corrupt, but bad sequence number, sending next boi
A: 663235.2081, Layer 5 to 4 Message = De(Ij-No2St7XD<^~Bc&
A sending packet with segnum 0 and checksum 225926
A sending packet to B
B gettin' a packet with segnum 0, and checksum 225926
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 663239.0979, Layer 4 to 5 Message = De(Ij-No2St7XD<^~Bc&
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 161, segnum: 768, acknum: 1
Recieved packet data is: ACK
Expected checksum: 3233
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 768. last transmitted seqnum: 0
Last sent packet Checksum: 225926
Packet Corrupt!
Recieved checksum: 161, segnum: 768, acknum: 1
Recieved packet data is: ACK
Expected checksum: 3233
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 225926 and data De(Ij-No2St7XD<^~Bc&.
B gettin' a packet with seqnum 0, and checksum 225926
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 225926 again
A timed out. Sending packet with seqnum 0, and checksum 225926 again
B gettin' a packet with segnum 0, and checksum 225926
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 225926
Not corrupt, but bad sequence number, sending next boi
A: 664480.8673, Layer 5 to 4 Message = EwL~S(Zxb6i=pEEL~S(Z
A sending packet with segnum 1 and checksum 234782
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 234782
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 664486.9229, Layer 4 to 5 Message = EwL~S(Zxb6i=pEEL~S(Z
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
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Packet Corrupt!
Recieved checksum: -1543503104, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 932
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: -1543503104, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 932
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 234782 and data EwL~S(Zxb6i=pEEL~S(Z.
A timed out. Sending packet with seqnum 1, and checksum 234782 again
A: 665415.9967, Layer 5 to 4 Message = d,pV<\#gM3w^D2nTF\sim eK1
A timed out. Sending packet with seqnum 1, and checksum 234782 again
B gettin' a packet with seqnum 1, and checksum 234782
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 5850
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 234782
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 5850
A: no valid ACK, got instead with corruption. Resending packet with
checksum 234782 and data EwL~S(Zxb6i=pEEL~S(Z.
A timed out. Sending packet with segnum 1, and checksum 234782 again
B gettin' a packet with seqnum 1, and checksum 234782
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 234782
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d,pV<#gM3w^D2nTF~eK1
A sending packet with segnum 0 and checksum 235158 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 235158
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   666055.8912, Layer 4 to 5 Message = d,pV<#gM3w^D2nTF~eK1
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, segnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: -1446
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 1
Recieved packet data is: ACK
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```
Expected checksum: -1446
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 235158 and data d,pV<#gM3w^D2nTF~eK1.
B gettin' a packet with seqnum 0, and checksum 235158
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 235158
Not corrupt, but bad sequence number, sending next boi
A: 667208.3004, Layer 5 to 4 Message = G>6.&{skcZRJB91)Gvnf
A sending packet with segnum 1 and checksum 240033
A sending packet to B
B gettin' a packet with segnum 1, and checksum 240033
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 667224.1582, Layer 4 to 5 Message = G>6.&{skcZRJB91}Gvnf
Setting comp\_seqnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 240033 again
A timed out. Sending packet with seqnum 1, and checksum 240033 again
B gettin' a packet with segnum 1, and checksum 240033
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A: 668242.7054, Layer 5 to 4 Message = HQZdmv!+4=GPYclu\sim H3<
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 240033
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: HQZdmv!+4=GPYclu~H3<
A sending packet with segnum 0 and checksum 235344 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 235344
Packet Corrupt!
Recieved checksum: 235344, seqnum: 0, acknum: 0
Recieved packet data is: HQZdmvH+4=GPYclu~!3<
Expected checksum: 224619
Packet Corrupt!
Recieved checksum: 235344, seqnum: 0, acknum: 0
Recieved packet data is: HQZdmvH+4=GPYclu~!3<
Expected checksum: 224619
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 235344 and data HQZdmv!+4=GPYclu~H3<. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 235344
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 668287.2483, Layer 4 to 5 Message = HQZdmv!+4=GPYclu~H3<
Setting comp segnum from 0 to 1
A timed out. Sending packet with segnum 0, and checksum 235344 again
A timed out. Sending packet with seqnum 0, and checksum 235344 again
B gettin' a packet with segnum 0, and checksum 235344
```

```
Packet Corrupt!
Recieved checksum: 235344, seqnum: 0, acknum: 0
Recieved packet data is: H3Zdmv!+4=GPYclu~HQ<
Expected checksum: 246054
Packet Corrupt!
Recieved checksum: 235344, seqnum: 0, acknum: 0
Recieved packet data is: H3Zdmv!+4=GPYclu~HQ<
Expected checksum: 246054
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 235344
Not corrupt, but bad sequence number, sending next boi
A: 669325.2005, Layer 5 to 4 Message = If~; Vq.Id~; Vq.3d~; Iq
A sending packet with seqnum 1 and checksum 248123
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 248123
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 669331.3469, Layer 4 to 5 Message = If~; Vq. Id~; Vq. 3d~; Iq
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 20027
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, segnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 20027
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 248123 and data If~; Vq.Id~; Vq.3d~; Iq.
B gettin' a packet with seqnum 1, and checksum 248123
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 248123
Not corrupt, but bad sequence number, sending next boi
A: 670199.3518, Layer 5 to 4 Message = JvEq?1:g5b0]+W&R~MyJ
A sending packet with seqnum 0 and checksum 239592
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 239592 again
B gettin' a packet with seqnum 4849664, and checksum 239592
Packet Corrupt!
Recieved checksum: 239592, segnum: 4849664, acknum: 0
Recieved packet data is:
Expected checksum: 14788510
Packet Corrupt!
Recieved checksum: 239592, seqnum: 4849664, acknum: 0
Recieved packet data is:
Expected checksum: 14788510
```

Packet corrupt

```
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 239592 and data JvEq?l:g5b0]+W&R~MyJ. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 239592
Packet Corrupt!
Recieved checksum: 239592, segnum: 0, acknum: 0
Recieved packet data is: JqEv?l:q5b0]+W&R~MyJ
Expected checksum: 239652
Packet Corrupt!
Recieved checksum: 239592, seqnum: 0, acknum: 0
Recieved packet data is: JqEv?l:g5b0]+W&R~MyJ
Expected checksum: 239652
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 239592 and data JvEq?l:g5b0]+W&R~MyJ. corrupted from
A to B, resending
B gettin' a packet with seqnum 2818048, and checksum 239592
Packet Corrupt!
Recieved checksum: 239592, segnum: 2818048, acknum: 0
Recieved packet data is: JvEq?1:q5b0]
Expected checksum: 8686469
Packet Corrupt!
Recieved checksum: 239592, seqnum: 2818048, acknum: 0
Recieved packet data is: JvEq?1:g5b0]
Expected checksum: 8686469
Packet corrupt
Sending bACK a NAK!
   671063.1684, Layer 5 to 4 Message = K+iI)gG'eE%cC#aA~ >|
A timed out. Sending packet with segnum 0, and checksum 239592 again
A: 671393.0540, Layer 5 to 4 Message = LLx~pbSE6(wiZL=x~pbS
A: 671689.9202, Layer 5 to 4 Message = dPMVY] cfilo2ux{~$'*
A timed out. Sending packet with seqnum 0, and checksum 239592 again
A timed out. Sending packet with seqnum 0, and checksum 239592 again
B gettin' a packet with seqnum 0, and checksum 239592
Packet Corrupt!
Recieved checksum: 239592, seqnum: 0, acknum: 0
Recieved packet data is: JvEq?y:g5b0]+W&R~MlJ
Expected checksum: 235367
Packet Corrupt!
Recieved checksum: 239592, seqnum: 0, acknum: 0
Recieved packet data is: JvEq?y:g5b0]+W&R~MlJ
Expected checksum: 235367
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 239592 again
   673119.8161, Layer 5 to 4 Message = NcwNCWl#7Lau, AUj~5J
A timed out. Sending packet with seqnum 0, and checksum 239592 again
B gettin' a packet with seqnum 0, and checksum 1560520680
Packet Corrupt!
Recieved checksum: 1560520680, segnum: 0, acknum: 0
Recieved packet data is: JvEq?1:g5b0
Expected checksum: 226200
Packet Corrupt!
Recieved checksum: 1560520680, segnum: 0, acknum: 0
Recieved packet data is: JvEq?1:g5b0
Expected checksum: 226200
```

```
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 239592 and data JvEq?l:g5b0]+W&R~MyJ. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 239592
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 673259.1942, Layer 4 to 5 Message = JvEq?1:g5b0]+W&R~MyJ
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: K+iI)gG'eE%cC#aA~ >|
A sending packet with seqnum 1 and checksum 242632 from the queue
A sending packet to B
B gettin' a packet with seqnum 4063233, and checksum 242632
Packet Corrupt!
Recieved checksum: 242632, seqnum: 4063233, acknum: 0
Recieved packet data is: K+iI)gG'eE%cC#aA~
Expected checksum: 12409946
Packet Corrupt!
Recieved checksum: 242632, segnum: 4063233, acknum: 0
Recieved packet data is: K+iI)gG'eE%cC#aA~
Expected checksum: 12409946
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 171, segnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1239
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1239
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 242632 and data K+iI)gG'eE%cC#aA~ >|.
B gettin' a packet with segnum 1, and checksum 242632
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
\ensuremath{\mathtt{B}} sending message up to layer 5 and updating newest recieved data
B: 673302.3272, Layer 4 to 5 Message = K+iI)gG'eE%cC#aA\sim >
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 242632 again
A timed out. Sending packet with seqnum 1, and checksum 242632 again
A timed out. Sending packet with seqnum 1, and checksum 242632 again
B gettin' a packet with seqnum 1, and checksum 242632
Packet Corrupt!
Recieved checksum: 242632, segnum: 1, acknum: 0
Recieved packet data is: K+iI)gG'eE%cC#aA| >~
Expected checksum: 242854
Packet Corrupt!
Recieved checksum: 242632, seqnum: 1, acknum: 0
Recieved packet data is: K+iI)gG'eE%cC#aA| >~
Expected checksum: 242854
Packet corrupt
```

```
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1443
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 242632
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1443
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 242632 and data K+iI)gG'eE%cC#aA~ >|.
B gettin' a packet with seqnum 1, and checksum 242632
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A: 674829.3206, Layer 5 to 4 Message = Ou=dORxAqxU{Dj2X~Gm5
A timed out. Sending packet with seqnum 1, and checksum 242632 again
B gettin' a packet with segnum 1, and checksum 242632
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 242632
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: LLx~pbSE6(wiZL=x~pbS
A sending packet with segnum 0 and checksum 271934 from the queue
A sending packet to B
B gettin' a packet with seqnum 126, and checksum 271934
Packet Corrupt!
Recieved checksum: 271934, seqnum: 126, acknum: 0
Recieved packet data is: LLx
Expected checksum: 270296
Packet Corrupt!
Recieved checksum: 271934, seqnum: 126, acknum: 0
Recieved packet data is: LLx
Expected checksum: 270296
Packet corrupt
Sending bACK a NAK!
A: 675541.9313, Layer 5 to 4 Message = P*b;sP' 8pJ$[5mG~X2]
A timed out. Sending packet with seqnum 0, and checksum 271934 again
B gettin' a packet with seqnum 0, and checksum 271934
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 675849.9448, Layer 4 to 5 Message = LLx~pbSE6(wiZL=x~pbS
Setting comp segnum from 0 to 1
A timed out. Sending packet with segnum 0, and checksum 271934 again
A: 676565.1853, Layer 5 to 4 Message = Q<(q]HQ|hS>*s J5~jUA
A timed out. Sending packet with seqnum 0, and checksum 271934 again
B gettin' a packet with segnum 0, and checksum 271934
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
```

```
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 271934
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dPMVY] `cfilo2ux{~$'*
A sending packet with segnum 1 and checksum 235669 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 235669
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 676882.6284, Layer 4 to 5 Message = dPMVY] `cfilo2ux{~$'*
Setting comp\_seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 235669 again
B gettin' a packet with seqnum 1, and checksum 235669
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 235669 again
B gettin' a packet with segnum 1, and checksum 235669
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 235669
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: NcwNCWl#7Lau, AUj~5J
A sending packet with segnum 0 and checksum 240432 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 240432
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 677887.0658, Layer 4 to 5 Message = NcwNCWl#7Lau, AUj~5J
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Ou=dORxAgxU{Dj2X~Gm5
A sending packet with segnum 1 and checksum 251942 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 251942
Packet Corrupt!
Recieved checksum: 251942, seqnum: 1, acknum: 0
Recieved packet data is: Ou=d~RxAgxU{Dj2XOGm5
Expected checksum: 239534
Packet Corrupt!
Recieved checksum: 251942, seqnum: 1, acknum: 0
Recieved packet data is: Ou=d~RxAgxU{Dj2XOGm5
Expected checksum: 239534
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 251942 and data Ou=dORxAgxU{Dj2X~Gm5. corrupted from
A to B, resending
A: 678145.2963, Layer 5 to 4 Message = RfLIFC?R9630-*3$~{xu}
A: 678382.4717, Layer 5 to 4 Message = Sbp~x=LZSw(6ESbp~x=L
A timed out. Sending packet with seqnum 1, and checksum 251942 again
```

```
A: 678589.0675, Layer 5 to 4 Message = dt6Vv8Xx:Tz<2|> ~Aa#
A: 678732.7837, Layer 5 to 4 Message = U)Z.`3e8j=UCtHyM~R&W
A timed out. Sending packet with segnum 1, and checksum 251942 again
B gettin' a packet with seqnum 1, and checksum 251942
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 678959.6764, Layer 4 to 5 Message = Ou=dORxAgxU{Dj2X~Gm5
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: P*b;sP'_8pJ$[5mG~X2j
A sending packet with segnum 0 and checksum 239461 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 239461
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 678990.3943, Layer 4 to 5 Message = P*b;sP' 8pJ$[5mG~X2j
Setting comp_seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 239461 again
B gettin' a packet with seqnum 0, and checksum 239461
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 987
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 239461
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 987
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 239461 and data P*b;sP' 8pJ$[5mG~X2j.
B gettin' a packet with segnum 0, and checksum 196709
Packet Corrupt!
Recieved checksum: 196709, segnum: 0, acknum: 42752
Recieved packet data is: P*b;sP' 8pJ$[5mG~X2j
Expected checksum: 153957
Packet Corrupt!
Recieved checksum: 196709, seqnum: 0, acknum: 42752
Recieved packet data is: P*b;sP' 8pJ$[5mG~X2j
Expected checksum: 153957
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 239461 again
B gettin' a packet with segnum 0, and checksum 239461
Packet Corrupt!
Recieved checksum: 239461, seqnum: 0, acknum: 0
Recieved packet data is: P*b;sP' 8~J$[5mGpX2j
Expected checksum: 236815
Packet Corrupt!
Recieved checksum: 239461, seqnum: 0, acknum: 0
Recieved packet data is: P*b;sP' 8~J$[5mGpX2j
```

```
Expected checksum: 236815
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 7179
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 239461
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 7179
A: no valid ACK, got instead with corruption. Resending packet with
checksum 239461 and data P*b;sP' 8pJ$[5mG~X2j.
B gettin' a packet with segnum 0, and checksum 239461
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 239461
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Q<(q]HQ|hS>*s J5~jUA
A sending packet with segnum 1 and checksum 245227 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 245227
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 680054.0077, Layer 4 to 5 Message = Q<(q]HQ|hS>*s J5~jUA
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: RfLIFC?R9630-*3$~{xu
A sending packet with segnum 0 and checksum 240776 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 240776
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 680108.1311, Layer 4 to 5 Message = RfLIFC?R9630-*3$~{xu}
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Sbp~x=LZSw(6ESbp~x=L
A sending packet with segnum 1 and checksum 255710 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 255710
Packet Corrupt!
Recieved checksum: 255710, seqnum: 1, acknum: 0
Recieved packet data is: Sbp~x=L(SwZ6ESbp~x=L
Expected checksum: 258560
Packet Corrupt!
```

```
Recieved checksum: 255710, seqnum: 1, acknum: 0
Recieved packet data is: Sbp~x=L(SwZ6ESbp~x=L
Expected checksum: 258560
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 255710 and data Sbp~x=LZSw(6ESbp~x=L. corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 255710
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 680123.7363, Layer 4 to 5 Message = Sbp~x=LZSw(6ESbp~x=L
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dt6Vv8Xx:Tz<2|> ~Aa#
A sending packet with segnum 0 and checksum 233322 from the queue
A sending packet to B
B gettin' a packet with seqnum 84, and checksum 233322
Packet Corrupt!
Recieved checksum: 233322, segnum: 84, acknum: 0
Recieved packet data is: bt6Vv8Xx:
Expected checksum: 225341
Packet Corrupt!
Recieved checksum: 233322, segnum: 84, acknum: 0
Recieved packet data is: bt6Vv8Xx:
Expected checksum: 225341
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 233322 and data dt6Vv8Xx:Tz<2|> ~Aa#. corrupted from
A to B, resending
A: 680170.5868, Layer 5 to 4 Message = V; \sim dI.qV; \sim dV.qV; \sim dI.
B gettin' a packet with seqnum 0, and checksum 233322
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   680175.1056, Layer 4 to 5 Message = dt6Vv8Xx:Tz<2|> ~Aa#
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: U) Z. `3e8j=UCtHyM~R&W
A sending packet with seqnum 1 and checksum 241262 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 241262
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   680183.2509, Layer 4 to 5 Message = U)Z.`3e8j=UCtHyM~R&W
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: -28876
```

```
Recieved checksum: 768, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: -28876
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 241262 and data U) Z. `3e8j=UCtHyM~R&W.
B gettin' a packet with segnum 1, and checksum 241262
Packet Corrupt!
Recieved checksum: 241262, seqnum: 1, acknum: 0
Recieved packet data is: U) &. `3e8j=UCtHyM~RZW
Expected checksum: 259566
Packet Corrupt!
Recieved checksum: 241262, seqnum: 1, acknum: 0
Recieved packet data is: U) &. `3e8j=UCtHyM~RZW
Expected checksum: 259566
Packet corrupt
Sending bACK a NAK!
A: 680572.4235, Layer 5 to 4 Message = WNE;2)}tkbXOW<3*~ulc
A timed out. Sending packet with segnum 1, and checksum 241262 again
A timed out. Sending packet with seqnum 1, and checksum 241262 again
B gettin' a packet with segnum 1, and checksum 241262
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 241262 again
A: 681746.9359, Layer 5 to 4 Message = Xaiqy\$, 4 < EMU^Xnv^-)19
A timed out. Sending packet with seqnum 1, and checksum 241262 again
A: 682442.0341, Layer 5 to 4 Message = YsxIc|8R1(B[u1Ye~:Tn
A timed out. Sending packet with seqnum 1, and checksum 241262 again
B gettin' a packet with seqnum 1, and checksum 241262
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1704
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 241262
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1704
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 241262 and data U) Z. `3e8j=UCtHyM~R&W.
A: 683142.8072, Layer 5 to 4 Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE)
A timed out. Sending packet with segnum 1, and checksum 241262 again
A: 683364.1681, Layer 5 to 4 Message = dfwV5rQ0mL+h2&3B[^<y]
A timed out. Sending packet with seqnum 1, and checksum 241262 again
B gettin' a packet with segnum 1, and checksum 241262
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 241262
Not corrupt, but bad sequence number, sending next boi
```

Bad ACK or NAK determined by A

Packet Corrupt!

```
Data being dequeued: V;~dI.qV;~dV.qV;~dI.
A sending packet with seqnum 0 and checksum 237307 from the queue
A sending packet to B
A: 683973.0438, Layer 5 to 4 Message = ]M=.|m^N>x\}n O?0~] P
A timed out. Sending packet with seqnum 0, and checksum 237307 again
B gettin' a packet with seqnum 0, and checksum 237307
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 684232.4075, Layer 4 to 5 Message = V;~dI.qV;~dV.qV;~dI.
Setting comp_seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 237307 again
B gettin' a packet with seqnum 0, and checksum 237307
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 237307
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: WNE;2) }tkbXOW<3*~ulc
A sending packet with seqnum 1 and checksum 260256 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 260256
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 684777.6879, Layer 4 to 5 Message = WNE;2)}tkbXOW<3*~ulc
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Xaiqy$,4<EMU^Xnv~)19
A sending packet with segnum 0 and checksum 224553 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 224553
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 684826.6217, Layer 4 to 5 Message = Xaiqy$, 4 < EMU^Xnv^-) 19
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, segnum: 16640, acknum: 1
Recieved packet data is:
Expected checksum: 50784
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 16640. last transmitted segnum: 0
Last sent packet Checksum: 224553
Packet Corrupt!
Recieved checksum: 929, segnum: 16640, acknum: 1
Recieved packet data is:
Expected checksum: 50784
A: no valid ACK, got instead with corruption. Resending packet with
checksum 224553 and data Xaiqy$, 4<EMU^Xnv~)19.
B gettin' a packet with segnum 0, and checksum 224553
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
```

```
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 224553
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: YsxIc|8Rl(B[u1Ye~:Tn
A sending packet with segnum 1 and checksum 256280 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 256280
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 684890.6727, Layer 4 to 5 Message = YsxIc|8Rl(B[u1Ye~:Tn
Setting comp seqnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 256280 again
B gettin' a packet with seqnum 1, and checksum 256280
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A: 685774.0029, Layer 5 to 4 Message = ^`bdfhjlnprtvxz|~\#^'
   685812.1526, Layer 5 to 4 Message = _r(;Ocv,?Sgz0DWk~4H_
A timed out. Sending packet with seqnum 1, and checksum 256280 again
B gettin' a packet with seqnum 1, and checksum 256280
Packet Corrupt!
Recieved checksum: 256280, segnum: 1, acknum: 0
Recieved packet data is: YsxIB|8Rl(c[u1Ye~:Tn
Expected checksum: 259448
Packet Corrupt!
Recieved checksum: 256280, seqnum: 1, acknum: 0
Recieved packet data is: YsxIB|8Rl(c[u1Ye~:Tn
Expected checksum: 259448
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 4259840, acknum: 0
Recieved packet data is: N
Expected checksum: 12780196
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 4259840. last transmitted segnum: 1
Last sent packet Checksum: 256280
Packet Corrupt!
Recieved checksum: 936, seqnum: 4259840, acknum: 0
Recieved packet data is: N
Expected checksum: 12780196
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 256280 and data YsxIc|8Rl(B[u1Ye~:Tn.
A timed out. Sending packet with seqnum 1, and checksum 256280 again
B gettin' a packet with seqnum 1, and checksum 226072
Packet Corrupt!
Recieved checksum: 226072, seqnum: 1, acknum: 0
Recieved packet data is: YéxIc|8Rl(B[u1Ye~:Tn
Expected checksum: 255728
Packet Corrupt!
Recieved checksum: 226072, seqnum: 1, acknum: 0
Recieved packet data is: YéxIc|8Rl(B[u1Ye~:Tn
Expected checksum: 255728
Packet corrupt
Sending bACK a NAK!
```

```
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 256280
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Z(S~LwEp=i6bxZ(Z~LwE
A sending packet with segnum 0 and checksum 257313 from the queue
A sending packet to B
B gettin' a packet with segnum 1157627904, and checksum 257313
Packet Corrupt!
Recieved checksum: 257313, seqnum: 1157627904, acknum: 0
Recieved packet data is: Z(S~LwEp=i6bxZ(Z~Lw
Expected checksum: -821853871
Packet Corrupt!
Recieved checksum: 257313, segnum: 1157627904, acknum: 0
Recieved packet data is: Z(S~LwEp=i6bxZ(Z~Lw
Expected checksum: -821853871
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 257313 and data Z(S~LwEp=i6bxZ(Z~LwE. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 257313
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 686449.6726, Layer 4 to 5 Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE)
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: dfwV5rQ0mL+h2&3B[^<y
A sending packet with segnum 1 and checksum 223043 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 223043
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 686463.4110, Layer 4 to 5 Message = dfwV5rQ0mL+h2&3B[^<y]
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ]M=.|m^N>x}n_0?0~]`P
A sending packet with seqnum 0 and checksum 257422 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 257422
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 686514.4106, Layer 4 to 5 Message = ]M=.|m^N>x\}n O?0~]`P
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ^`bdfhjlnprtvxz|~#^'
A sending packet with segnum 1 and checksum 271838 from the queue
A sending packet to B
```

```
B gettin' a packet with seqnum 1, and checksum 271838
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
\ensuremath{\mathtt{B}} sending message up to layer 5 and updating newest recieved data
B: 686527.3239, Layer 4 to 5 Message = ^`bdfhjlnprtvxz|~#^'
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: _r(;Ocv,?Sgz0DWk~4H_
A sending packet with seqnum 0 and checksum 245010 from the queue
 A sending packet to B
B gettin' a packet with seqnum 0, and checksum 245010
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 686576.1562, Layer 4 to 5 Message = r(;Ocv,?Sgz0DWk~4H)
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 686994.2474, Layer 5 to 4 Message = `'Lq8^%Jo6[#Hm4Y~Fk2
A sending packet with seqnum 1 and checksum 230182
 A sending packet to B
B gettin' a packet with seqnum 1, and checksum 230182
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 686995.7034, Layer 4 to 5 Message = `'Lq8^%Jo6[#Hm4Y~Fk2
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
A: 688482.1893, Layer 5 to 4 Message = aapI!X1hAwP)`8oH~W0g
A sending packet with segnum 0 and checksum 242120
 A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 242120 again
B gettin' a packet with seqnum 0, and checksum 242120
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 688992.6106, Layer 4 to 5 Message = aapI!X1hAwP) `8oH~W0q
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 689436.6950, Layer 5 to 4 Message = bLb \sim iS = (pZExwbL6 \sim iS = pZExwbL6 \sim iS = pZExwbL
A sending packet with seqnum 1 and checksum 253129
 A sending packet to B
B gettin' a packet with seqnum 1, and checksum 253129
Packet Corrupt!
Recieved checksum: 253129, seqnum: 1, acknum: 0
Recieved packet data is: bSb~iS=(pZExwbL6~iL=
Expected checksum: 250630
Packet Corrupt!
Recieved checksum: 253129, seqnum: 1, acknum: 0
Recieved packet data is: bSb~iS=(pZExwbL6~iL=
Expected checksum: 250630
Packet corrupt
Sending bACK a NAK!
```

```
A timed out. Sending packet with seqnum 1, and checksum 253129 again
A timed out. Sending packet with seqnum 1, and checksum 253129 again
B gettin' a packet with seqnum 1, and checksum 253129
Packet Corrupt!
Recieved checksum: 253129, seqnum: 1, acknum: 0
Recieved packet data is: bLbwiS=(pZEx~bL6~iS=
Expected checksum: 254200
Packet Corrupt!
Recieved checksum: 253129, segnum: 1, acknum: 0
Recieved packet data is: bLbwiS=(pZEx~bL6~iS=
Expected checksum: 254200
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, segnum: 1, acknum: 0
Recieved packet data is: NAK«
Expected checksum: -421
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 0
Recieved packet data is: NAK«
Expected checksum: -421
A: no valid ACK, got NAK« instead with corruption. Resending packet with
checksum 253129 and data bLb~iS=(pZExwbL6~iS=.
A timed out. Sending packet with seqnum 1, and checksum 253129 again
B gettin' a packet with segnum 1, and checksum 253129
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B:
   690966.9499, Layer 4 to 5 Message = bLb~iS=(pZExwbL6~iS=
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 19201
Recieved packet data is: AC
Expected checksum: -38143
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 19201
Recieved packet data is: AC
Expected checksum: -38143
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 253129 and data bLb~iS=(pZExwbL6~iS=.
A: 691060.7096, Layer 5 to 4 Message = d ZcRNJFB=952-)%~zvr
A timed out. Sending packet with seqnum 1, and checksum 253129 again
B gettin' a packet with seqnum 1, and checksum 253129
Packet Corrupt!
Recieved checksum: 253129, seqnum: 1, acknum: 0
Recieved packet data is: iLb~iS=(pZExwbL6~bS=
Expected checksum: 250868
Packet Corrupt!
Recieved checksum: 253129, segnum: 1, acknum: 0
Recieved packet data is: iLb~iS=(pZExwbL6~bS=
Expected checksum: 250868
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 78, acknum: 0
```

```
Recieved packet data is:
Expected checksum: 1092
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 78. last transmitted seqnum: 1
Last sent packet Checksum: 253129
Packet Corrupt!
Recieved checksum: 936, segnum: 78, acknum: 0
Recieved packet data is:
Expected checksum: 1092
A: no valid ACK, got instead with corruption. Resending packet with
checksum 253129 and data bLb~iS=(pZExwbL6~iS=.
A timed out. Sending packet with seqnum 1, and checksum 253129 again
B gettin' a packet with segnum 1, and checksum 253129
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 253129
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d ZcRNJFB=952-)%~zvr
A sending packet with segnum 0 and checksum 241843 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 241843 again
A: 692964.9064, Layer 5 to 4 Message = dq~.dIVdq~.;IVdq~.;I
A timed out. Sending packet with seqnum 0, and checksum 241843 again
A timed out. Sending packet with seqnum 0, and checksum 241843 again
B gettin' a packet with seqnum 0, and checksum 241843
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   693545.1369, Layer 4 to 5 Message = d ZcRNJFB=952-)%~zvr
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 41217
Recieved packet data is: ACK
Expected checksum: -81503
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 41217
Recieved packet data is: ACK
Expected checksum: -81503
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 241843 and data d ZcRNJFB=952-)%~zvr.
A timed out. Sending packet with seqnum 0, and checksum 241843 again
B gettin' a packet with seqnum 0, and checksum 241843
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A: 694092.2020, Layer 5 to 4 Message = efEd%ec$Cb#Ba!3`~? }
   694337.9004, Layer 5 to 4 Message = f8i; 1>fBrEuHxK{N~Q$T
A timed out. Sending packet with segnum 0, and checksum 241843 again
B gettin' a packet with seqnum 0, and checksum 241843
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 241843 again
B gettin' a packet with seqnum 0, and checksum 241843
incorrect seqnum
```

```
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 241843
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dq~.dIVdq~.;IVdq~.;I
A sending packet with segnum 1 and checksum 236343 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 236343
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 695082.7607, Layer 4 to 5 Message = dq~.dIVdq~.;IVdq~.;I
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: efEd%ec$Cb#Ba!3`~? }
A sending packet with seqnum 0 and checksum 243368 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 243368 again
B gettin' a packet with segnum 0, and checksum 2471592
Packet Corrupt!
Recieved checksum: 2471592, segnum: 0, acknum: 0
Recieved packet data is: efEd ec$Cb#Ba!3`~? }
Expected checksum: 242518
Packet Corrupt!
Recieved checksum: 2471592, seqnum: 0, acknum: 0
Recieved packet data is: efEd ec$Cb#Ba!3`~? }
Expected checksum: 242518
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 1308623784, segnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 858
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 1308623784, segnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 858
A: no valid ACK, got instead with corruption. Resending packet with
checksum 243368 and data efEd%ec$Cb#Ba!3`~? }.
B gettin' a packet with seqnum 100, and checksum 243368
Packet Corrupt!
Recieved checksum: 243368, segnum: 100, acknum: 0
Recieved packet data is: efE
Expected checksum: 242068
Packet Corrupt!
Recieved checksum: 243368, segnum: 100, acknum: 0
Recieved packet data is: efE
Expected checksum: 242068
Packet corrupt
Sending bACK a NAK!
A: 695790.7363, Layer 5 to 4 Message = gKxgU9\{gD(jN2tX<\sim cG+
A timed out. Sending packet with seqnum 0, and checksum 243368 again
B gettin' a packet with segnum 0, and checksum 222632
```

```
Packet Corrupt!
Recieved checksum: 222632, seqnum: 0, acknum: 0
Recieved packet data is: ¶fEd%ec$Cb#Ba!3`~? }
Expected checksum: 243193
Packet Corrupt!
Recieved checksum: 222632, seqnum: 0, acknum: 0
Recieved packet data is: ¶fEd%ec$Cb#Ba!3`~? }
Expected checksum: 243193
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 243368 and data efEd%ec$Cb#Ba!3`~? }. corrupted from
A to B, resending
A timed out. Sending packet with seqnum 0, and checksum 243368 again
B gettin' a packet with segnum 0, and checksum 243368
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 696668.5666, Layer 4 to 5 Message = efEd%ec$Cb#Ba!3`~? }
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: f8i; l>fBrEuHxK{N~Q$T
A sending packet with seqnum 1 and checksum 248831 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 248831
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 696702.7387, Layer 4 to 5 Message = f8i;1>fBrEuHxK{N~Q$T
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, segnum: 1, acknum: 1
Recieved packet data is:
Expected checksum: 10227
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is:
Expected checksum: 10227
A: no valid ACK, got instead with corruption. Resending packet with
checksum 248831 and data f8i; 1>fBrEuHxK{N~Q$T.
B gettin' a packet with seqnum 1, and checksum 4574207
Packet Corrupt!
Recieved checksum: 4574207, seqnum: 1, acknum: 0
Recieved packet data is: f8i;l>fBr uHxK{N~Q$T
Expected checksum: 242231
Packet Corrupt!
Recieved checksum: 4574207, segnum: 1, acknum: 0
Recieved packet data is: f8i;1>fBr uHxK{N~Q$T
Expected checksum: 242231
Packet corrupt
Sending bACK a NAK!
   697042.1018, Layer 5 to 4 Message = h^SI>4*hi TJ?5+~tj
A timed out. Sending packet with segnum 1, and checksum 248831 again
B gettin' a packet with seqnum 1, and checksum 248831
incorrect seqnum
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```
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -34264
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 248831
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -34264
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 248831 and data f8i;1>fBrEuHxK{N~Q$T.
B gettin' a packet with seqnum 1, and checksum 248831
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 248831 again
B gettin' a packet with seqnum 1, and checksum 248831
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 248831 again
B gettin' a packet with seqnum 1, and checksum 248831
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 248831
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: gKxqU9{gD(jN2tX<~cG+
A sending packet with segnum 0 and checksum 231243 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 231243
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 698284.1687, Layer 4 to 5 Message = gKxqU9\{gD(jN2tX<\sim cG+
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: h^SI>4*}hi TJ?5+~tj`
A sending packet with seqnum 1 and checksum 256767 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 256767
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 698306.3733, Layer 4 to 5 Message = h^SI>4*hi TJ?5+~tj`
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 698615.9206, Layer 5 to 4 Message = ipw \sim (x6=EiSZbipw \sim (x6)
A sending packet with segnum 0 and checksum 261625
 A sending packet to B
```

```
B gettin' a packet with seqnum 0, and checksum 261625
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 698636.6800, Layer 4 to 5 Message = ipw~(x6=EiSZbipw~(x6
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 699239.7851, Layer 5 to 4 Message = d%=Vo*C[txja24Mf~9Rk
A sending packet with segnum 1 and checksum 253046
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 253046 again
B gettin' a packet with seqnum 1, and checksum 253046
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 699757.4067, Layer 4 to 5 Message = d%=Vo*C[txja24Mf~9Rk
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 17816
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 17816
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 253046 and data d%=Vo*C[txja24Mf~9Rk.
B gettin' a packet with segnum 1, and checksum 253046
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 1716
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 253046
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 1716
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 253046 and data d%=Vo*C[txja24Mf~9Rk.
B gettin' a packet with segnum 1, and checksum 253046
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 27336
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
```

```
Last sent packet Checksum: 253046
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 27336
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 253046 and data d%=Vo*C[txja24Mf~9Rk.
B gettin' a packet with segnum 1, and checksum 253046
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 253046
Not corrupt, but bad sequence number, sending next boi
   700799.0422, Layer 5 to 4 Message = k7b.X%OyFp<k3^*T~KuB
A sending packet with seqnum 0 and checksum 243901
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 243901
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 700802.6834, Layer 4 to 5 Message = k7b.X%OyFp<k3^*T~KuB
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, segnum: 4390912, acknum: 1
Recieved packet data is: A
Expected checksum: 13173397
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 4390912. last transmitted segnum: 0
Last sent packet Checksum: 243901
Packet Corrupt!
Recieved checksum: 929, seqnum: 4390912, acknum: 1
Recieved packet data is: A
Expected checksum: 13173397
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 243901 and data k7b.X%OyFp<k3^*T~KuB.
A timed out. Sending packet with seqnum 0, and checksum 243901 again
B gettin' a packet with segnum 0, and checksum 243901
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 243901
Not corrupt, but bad sequence number, sending next boi
   701902.2710, Layer 5 to 4 Message = lJ(dB)[9uS1ml)eC~]:v
A sending packet with segnum 1 and checksum 256798
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 256798
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 701915.1071, Layer 4 to 5 Message = IJ(dB)[9uS1ml)eC^{-}:v
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
```

```
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 703427.7764, Layer 5 to 4 Message = m]L;+xhWG6&scmB1~n^M
A sending packet with seqnum 0 and checksum 252677
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 252677
Packet Corrupt!
Recieved checksum: 252677, segnum: 0, acknum: 0
Recieved packet data is: m&L; +xhWG6]scmB1~n^M
Expected checksum: 259112
Packet Corrupt!
Recieved checksum: 252677, seqnum: 0, acknum: 0
Recieved packet data is: m&L; +xhWG6]scmB1~n^M
Expected checksum: 259112
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, segnum: 0, acknum: 168
Recieved packet data is: NAK
Expected checksum: 600
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, segnum: 0, acknum: 168
Recieved packet data is: NAK
Expected checksum: 600
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 252677 and data m]L;+xhWG6&scmB1~n^M.
B gettin' a packet with seqnum 0, and checksum 252677
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   703468.8886, Layer 4 to 5 Message = m]L;+xhWG6&scmB1~n^M
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 252677 again
A timed out. Sending packet with seqnum 0, and checksum 252677 again
B gettin' a packet with seqnum 28160, and checksum 252677
Packet Corrupt!
Recieved checksum: 252677, seqnum: 28160, acknum: 0
Recieved packet data is: m]L;+xhWG6&scmB1~
Expected checksum: 301517
Packet Corrupt!
Recieved checksum: 252677, segnum: 28160, acknum: 0
Recieved packet data is: m]L;+xhWG6&scmB1~
Expected checksum: 301517
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 252677
Not corrupt, but bad sequence number, sending next boi
   704997.1134, Layer 5 to 4 Message = nfpqrstuvwxyz\{n\}\sim! \#\$
A sending packet with seqnum 1 and checksum 252441
A sending packet to B
B gettin' a packet with segnum 7667713, and checksum 252441
Packet Corrupt!
Recieved checksum: 252441, seqnum: 7667713, acknum: 0
Recieved packet data is: nfpqrst
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Recieved checksum: 252441, segnum: 7667713, acknum: 0
Recieved packet data is: nfpqrst
Expected checksum: 23248089
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 252441 again
B gettin' a packet with segnum 1, and checksum 252441
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   705498.5535, Layer 4 to 5 Message = nfpqrstuvwxyz\{n\}\sim! \#\$
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 706640.1760, Layer 5 to 4 Message = 0$6I[n#5HZm!4GYo~3FX]
A sending packet with segnum 0 and checksum 230500
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 230500
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 706652.2800, Layer 4 to 5 Message = 0$6I[n#5HZm!4GYo~3FX]
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
   707110.6323, Layer 5 to 4 Message = p6Z~EixSw=b(Lp6ZpEix
A sending packet with segnum 1 and checksum 263749
A sending packet to B
A timed out. Sending packet with segnum 1, and checksum 263749 again
B gettin' a packet with seqnum 1, and checksum 263749
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 707624.2448, Layer 4 to 5 Message = p6Z~EixSw=b(Lp6ZpEix
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 708387.2755, Layer 5 to 4 Message = dI\sim V.d; qI\sim V.2; qI\sim q.d
A sending packet with seqnum 0 and checksum 247000
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 247000 again
B gettin' a packet with seqnum 0, and checksum 247000
Packet Corrupt!
Recieved checksum: 247000, seqnum: 0, acknum: 28928
Recieved packet data is: bI~V.d;
Expected checksum: 182079
Packet Corrupt!
Recieved checksum: 247000, segnum: 0, acknum: 28928
Recieved packet data is: bI~V.d;
Expected checksum: 182079
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 247000 again
B gettin' a packet with segnum 0, and checksum 247000
Expected packet compared and confirmed
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Expected checksum: 23248089

Packet Corrupt!

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B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 709394.5313, Layer 4 to 5 Message = dI~V.d;qI~V.2;qI~q.d
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
   709413.3046, Layer 5 to 4 Message = r[E.u H1xbK4{eN7}\sim hr:
A sending packet with segnum 1 and checksum 257\overline{5}30
A sending packet to B
B gettin' a packet with segnum 1, and checksum 257530
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   709441.6923, Layer 4 to 5 Message = r[E.u H1xbK4{eN7~hr}:
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 65536
Recieved packet data is: ACK
Expected checksum: -130138
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, segnum: 1, acknum: 65536
Recieved packet data is: ACK
Expected checksum: -130138
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 257530 and data r[E.u H1xbK4{eN7~hr:.
A timed out. Sending packet with seqnum 1, and checksum 257530 again
B gettin' a packet with seqnum 1, and checksum 257530
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 257530
Not corrupt, but bad sequence number, sending next boi
A: 710421.3900, Layer 5 to 4 Message = snid YTOJE?:50+\&~yts
A sending packet with seqnum 0 and checksum 247905
A sending packet to B
                 Layer 5 to 4 Message = t#x; HTamy (4AMYfr~-9F
   710721.4186,
A timed out. Sending packet with seqnum 0, and checksum 247905 again
B gettin' a packet with seqnum 0, and checksum 247905
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   710922.7280, Layer 4 to 5 Message = snid YTOJE?:50+&~yts
B:
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 3929
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 3929
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```
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 247905 and data snid YTOJE?:50+&~yts.
B gettin' a packet with seqnum 0, and checksum 247905
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 2139
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 247905
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 2139
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 247905 and data snid YTOJE?:50+&~yts.
A timed out. Sending packet with seqnum 0, and checksum 247905 again
B gettin' a packet with seqnum 0, and checksum 247905
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1014
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 247905
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1014
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 247905 and data snid YTOJE?:50+&~yts.
B gettin' a packet with seqnum 0, and checksum 247905
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 4683
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 247905
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 4683
A: no valid ACK, got instead with corruption. Resending packet with
checksum 247905 and data snid YTOJE?:50+&~yts.
B gettin' a packet with segnum 25600, and checksum 247905
Packet Corrupt!
Recieved checksum: 247905, segnum: 25600, acknum: 0
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```
Recieved packet data is: sni
Expected checksum: 323105
Packet Corrupt!
Recieved checksum: 247905, segnum: 25600, acknum: 0
Recieved packet data is: sni
Expected checksum: 323105
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 247905
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: t#x;HTamy(4AMYfr~-9F
A sending packet with seqnum 1 and checksum 230374 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 230374 again
B gettin' a packet with segnum 1, and checksum 230374
Packet Corrupt!
Recieved checksum: 230374, seqnum: 1, acknum: 0
Recieved packet data is: t#x; ATamy (4HMYfr~-9F
Expected checksum: 231207
Packet Corrupt!
Recieved checksum: 230374, seqnum: 1, acknum: 0
Recieved packet data is: t#x;ATamy(4HMYfr~-9F
Expected checksum: 231207
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 230374 and data t#x; HTamy (4AMYfr~-9F. corrupted from
A to B, resending
    712414.7305, Layer 5 to 4 Message = uuSq10m-Ki)Ge%Ca~>]z
A timed out. Sending packet with seqnum 1, and checksum 230374 again
B gettin' a packet with seqnum 65, and checksum 230374
Packet Corrupt!
Recieved checksum: 230374, seqnum: 65, acknum: 0
Recieved packet data is: t#x; HTamy (4 MYfr~-9F
Expected checksum: 221350
Packet Corrupt!
Recieved checksum: 230374, segnum: 65, acknum: 0
Recieved packet data is: t#x; HTamy (4 MYfr~-9F
Expected checksum: 221350
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 26133
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 26133
A: no valid ACK, got instead with corruption. Resending packet with
checksum 230374 and data t # x; HTamy (4AMYfr \sim -9F.
A timed out. Sending packet with seqnum 1, and checksum 230374 again
```

B gettin' a packet with seqnum 1, and checksum 230374

```
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data B: 713088.9668, Layer 4 to 5 Message = t \pm x; HTamy(4AMYfr~-9F
Setting comp segnum from 1 to 0
   713256.3345, Layer 5 to 4 Message = vHvIxJyKzL\{M|N\}O\sim P!Q
A timed out. Sending packet with seqnum 1, and checksum 230374 again
B gettin' a packet with segnum 1, and checksum 230374
Packet Corrupt!
Recieved checksum: 230374, seqnum: 1, acknum: 0
Recieved packet data is: t#x-HTamy(4AMYfr~;9F
Expected checksum: 234686
Packet Corrupt!
Recieved checksum: 230374, seqnum: 1, acknum: 0
Recieved packet data is: t#x-HTamy(4AMYfr~;9F
Expected checksum: 234686
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 168, seqnum: 3, acknum: 0
Recieved packet data is: NAK
Expected checksum: 945
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 3. last transmitted seqnum: 1
Last sent packet Checksum: 230374
Packet Corrupt!
Recieved checksum: 168, seqnum: 3, acknum: 0
Recieved packet data is: NAK
Expected checksum: 945
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 230374 and data t#x; HTamy (4AMYfr~-9F.
B gettin' a packet with seqnum 1, and checksum 230374
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 230374 again
A timed out. Sending packet with seqnum 1, and checksum 230374 again
B gettin' a packet with seqnum 1, and checksum 230374
Packet Corrupt!
Recieved checksum: 230374, segnum: 1, acknum: 16640
Recieved packet data is: t#x; HTamy (4
Expected checksum: 187734
Packet Corrupt!
Recieved checksum: 230374, seqnum: 1, acknum: 16640
Recieved packet data is: t#x; HTamy(4
Expected checksum: 187734
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 768
Recieved packet data is: NAK
Expected checksum: -600
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 230374
Packet Corrupt!
Recieved checksum: 168, segnum: 0, acknum: 768
```

```
Recieved packet data is: NAK
Expected checksum: -600
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 230374 and data t#x; HTamy (4AMYfr~-9F.
A timed out. Sending packet with seqnum 1, and checksum 230374 again
B gettin' a packet with seqnum 1, and checksum 230374
Packet Corrupt!
Recieved checksum: 230374, segnum: 1, acknum: 0
Recieved packet data is: t#x;HTam4(yAMYfr~-9F
Expected checksum: 233134
Packet Corrupt!
Recieved checksum: 230374, seqnum: 1, acknum: 0
Recieved packet data is: t#x; HTam4 (yAMYfr~-9F
Expected checksum: 233134
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 230374
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: uuSq10m-Ki)Ge%Ca~>]z
A sending packet with segnum 0 and checksum 250216 from the queue
A sending packet to B
A: 715173.9227, Layer 5 to 4 Message = wf=wbE(iLxpS6w3=~bE(
B gettin' a packet with segnum 0, and checksum 250216
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   715174.2536, Layer 4 to 5 Message = uuSq10m-Ki)Ge%Ca~>]z
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: vHvIxJyKzL{M|N}O~P!Q
A sending packet with segnum 1 and checksum 253648 from the queue
A sending packet to B
   715206.1578, Layer 5 to 4 Message = dmbVx?4) {peY2C7,~sh]
B gettin' a packet with seqnum 1, and checksum 253648
Packet Corrupt!
Recieved checksum: 253648, segnum: 1, acknum: 0
Recieved packet data is: MHvIxJyKzL{v|N}O~P!Q
Expected checksum: 259511
Packet Corrupt!
Recieved checksum: 253648, seqnum: 1, acknum: 0
Recieved packet data is: MHvIxJyKzL{v|N}O~P!Q
Expected checksum: 259511
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 253648 and data vHvIxJyKzL{M|N}O~P!Q. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 253648
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 715238.4910, Layer 4 to 5 Message = vHvIxJyKzL\{M|N\}O\sim P!Q
Setting comp\_seqnum\ from\ 1 to 0
```

```
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: wf=wbE(iLxpS6w3=~bE(
A sending packet with seqnum 0 and checksum 228793 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 1157856697
Packet Corrupt!
Recieved checksum: 1157856697, segnum: 0, acknum: 0
Recieved packet data is: wf=wb
Expected checksum: 226309
Packet Corrupt!
Recieved checksum: 1157856697, seqnum: 0, acknum: 0
Recieved packet data is: wf=wb
Expected checksum: 226309
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 228793 and data wf=wbE(iLxpS6w3=~bE(. corrupted from
A to B, resending
A timed out. Sending packet with seqnum 0, and checksum 228793 again
A timed out. Sending packet with seqnum 0, and checksum 228793 again
A timed out. Sending packet with segnum 0, and checksum 228793 again
A: 717186.1510, Layer 5 to 4 Message = y!(.4yAGMSY`flrx~'-3
A timed out. Sending packet with seqnum 0, and checksum 228793 again
A timed out. Sending packet with seqnum 0, and checksum 228793 again
B gettin' a packet with segnum 0, and checksum 228793
Packet Corrupt!
Recieved checksum: 228793, seqnum: 0, acknum: 0
Recieved packet data is: wf=wbE=iLxpS6w3(~bE(
Expected checksum: 224446
Packet Corrupt!
Recieved checksum: 228793, seqnum: 0, acknum: 0
Recieved packet data is: wf=wbE=iLxpS6w3(~bE(
Expected checksum: 224446
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 196776, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 936
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 196776, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 936
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 228793 and data wf=wbE(iLxpS6w3=~bE(.
B gettin' a packet with seqnum 0, and checksum 228793
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 717877.9228, Layer 4 to 5 Message = wf=wbE(iLxpS6w3=~bE(
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dmbVx?4) {peY2C7,~sh]
```

```
A sending packet with seqnum 1 and checksum 252999 from the queue
A sending packet to B
B gettin' a packet with seqnum -603979775, and checksum 196679
Packet Corrupt!
Recieved checksum: 196679, seqnum: -603979775, acknum: 0
Recieved packet data is: bmbVx?4) {peY3C7,~sh]
Expected checksum: -1811686162
Packet Corrupt!
Recieved checksum: 196679, segnum: -603979775, acknum: 0
Recieved packet data is: bmbVx?4) {peY3C7,~sh]
Expected checksum: -1811686162
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 252999 and data dmbVx?4) [peY2C7,~sh]. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 252999
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 717940.9011, Layer 4 to 5 Message = dmbVx?4) {peY2C7,~sh]
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: -1543503871
Recieved packet data is: ACK
Expected checksum: -1207958620
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, segnum: 1, acknum: -1543503871
Recieved packet data is: ACK
Expected checksum: -1207958620
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 252999 and data dmbVx?4) {peY2C7,~sh].
B gettin' a packet with seqnum 1, and checksum 252999
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 252999 again
   718742.6675, Layer 5 to 4 Message = z4Ld{5ze|6Nf}70g~8Ph
A timed out. Sending packet with seqnum 1, and checksum 252999 again
B gettin' a packet with segnum 1, and checksum 252999
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 252999
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: y!(.4yAGMSY`flrx~'-3
A sending packet with segnum 0 and checksum 234258 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 234258 again
A timed out. Sending packet with seqnum 0, and checksum 234258 again
B gettin' a packet with seqnum 0, and checksum 196626
Packet Corrupt!
Recieved checksum: 196626, seqnum: 0, acknum: 9633792
Recieved packet data is: y!(.4yAGMSY`flrx~'-3
Expected checksum: -19033326
```

```
Packet Corrupt!
Recieved checksum: 196626, seqnum: 0, acknum: 9633792
Recieved packet data is: y!(.4yAGMSY`flrx~'-3
Expected checksum: -19033326
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 234258 and data y!(.4yAGMSY`flrx~'-3. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 234258
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B:
   720006.9771, Layer 4 to 5 Message = y!(.4yAGMSY`flrx~'-3
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: z4Ld{5ze|6Nf}70g~8Ph
A sending packet with segnum 1 and checksum 260621 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 260621
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 720017.4791, Layer 4 to 5 Message = z4Ld\{5ze | 6Nf\} 70g \sim 8Ph
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
   720319.9054, Layer 5 to 4 Message = \{Gp; e0Y\{NwC17a, U\sim Js\}\}
A sending packet with segnum 0 and checksum 247317
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 247317 again
A timed out. Sending packet with seqnum 0, and checksum 247317 again
B gettin' a packet with seqnum 12976128, and checksum 196629
Packet Corrupt!
Recieved checksum: 196629, seqnum: 12976128, acknum: 0
Recieved packet data is: {Gp;e0Y{NwCl7a,U~Js>
Expected checksum: 39175701
Packet Corrupt!
Recieved checksum: 196629, segnum: 12976128, acknum: 0
Recieved packet data is: {Gp;e0Y{NwCl7a,U~Js>
Expected checksum: 39175701
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 247317 and data {Gp;e0Y{NwCl7a,U~Js>. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 247317
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   721363.9315, Layer 4 to 5 Message = {Gp;e0Y{NwCl7a,U~Js>
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
```

```
A: 721432.2115, Layer 5 to 4 Message = |Y6qN+fC|Z7rO,gD\sim[8s]
A sending packet with seqnum 1 and checksum 252271
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 252271
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 721439.1218, Layer 4 to 5 Message = |Y6qN+fC|Z7rO,qD\sim[8s]
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
  722977.6305, Layer 5 to 4 Message = }1ZI7&raO},xgUD2~m[J
A sending packet with segnum 0 and checksum 254846
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 254846
Packet Corrupt!
Recieved checksum: 254846, seqnum: 0, acknum: 0
Recieved packet data is: }lIZ7&raO},xgUD2~m[J
Expected checksum: 254965
Packet Corrupt!
Recieved checksum: 254846, seqnum: 0, acknum: 0
Recieved packet data is: }lIZ7&raO},xgUD2~m[J
Expected checksum: 254965
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 254846 and data }lZI7&raO},xgUD2~m[J. corrupted from
A to B, resending
A timed out. Sending packet with segnum 0, and checksum 254846 again
B gettin' a packet with segnum 0, and checksum 254846
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 723501.8475, Layer 4 to 5 Message = }lZI7&raO}, xgUD2~m[J
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
   A sending packet with segnum 1 and checksum 361546
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 361546 again
B gettin' a packet with seqnum 1, and checksum 361546
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 361546 again
B gettin' a packet with seqnum 1, and checksum 361546
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 361546
Not corrupt, but bad sequence number, sending next boi
```

```
A: 726463.7000, Layer 5 to 4 Message = !3EVhy->Pbs'2J[m~2DU]
A sending packet with seqnum 0 and checksum 233592
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 233592 again
A: 727217.4645, Layer 5 to 4 Message = \#\#i.Qt9]!Eh-Ps3[~Dg,
A timed out. Sending packet with seqnum 0, and checksum 233592 again
A timed out. Sending packet with seqnum 0, and checksum 233592 again
B gettin' a packet with segnum 0, and checksum 233592
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 727990.1924, Layer 4 to 5 Message = !3EVhy->Pbs'2J[m~2DU
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ##i.Qt9]!Eh-Ps3[~Dq,
A sending packet with seqnum 1 and checksum 229425 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 229467
Packet Corrupt!
Recieved checksum: 229467, seqnum: 1, acknum: 0
Recieved packet data is: ##i.Qt9]!Eh-Ps31~Dg,
Expected checksum: 218673
Packet Corrupt!
Recieved checksum: 229467, seqnum: 1, acknum: 0
Recieved packet data is: ##i.Qt9]!Eh-Ps31~Dg,
Expected checksum: 218673
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 229425 and data ##i.Qt9]!Eh-Ps3[~Dg,. corrupted from
A to B, resending
A: 728052.9573, Layer 5 to 4 Message = $X$d:oFzQ(]3h>sJ~U,a
B gettin' a packet with segnum 1560281089, and checksum 229425
Packet Corrupt!
Recieved checksum: 229425, seqnum: 1560281089, acknum: 0
Recieved packet data is: ##i.Qt9
Expected checksum: 386099441
Packet Corrupt!
Recieved checksum: 229425, segnum: 1560281089, acknum: 0
Recieved packet data is: ##i.Qt9
Expected checksum: 386099441
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 0, acknum: 16777216
Recieved packet data is: NAK
Expected checksum: -33553496
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 229425
Packet Corrupt!
Recieved checksum: 939, segnum: 0, acknum: 16777216
Recieved packet data is: NAK
Expected checksum: -33553496
```

```
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 229425 and data \#\#i.Qt9]!Eh-Ps3[\sim Dg,.
B gettin' a packet with seqnum 1, and checksum 207921
Packet Corrupt!
Recieved checksum: 207921, seqnum: 1, acknum: 0
Recieved packet data is: ##i.Qt9]!Eh-Ps3[~Dq€
Expected checksum: 160625
Packet Corrupt!
Recieved checksum: 207921, segnum: 1, acknum: 0
Recieved packet data is: ##i.Qt9]!Eh-Ps3[~Dq€
Expected checksum: 160625
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 229425 and data ##i.Qt9]!Eh-Ps3[~Dg,. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 229425
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 728123.8378, Layer 4 to 5 Message = ##i.Qt9]!Eh-Ps3[~Dg,
Setting comp_seqnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 229425 again
A timed out. Sending packet with seqnum 1, and checksum 229425 again
B gettin' a packet with seqnum 1, and checksum 229425
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 229425
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: $X$d:oFzQ(]3h>sJ~U,a
A sending packet with segnum 0 and checksum 241262 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 241262
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 729122.9528, Layer 4 to 5 Message = X$d:oFzQ(]3h>sJ~U,a
Setting comp segnum from 0 to 1
A: 729261.6720, Layer 5 to 4 Message = %kS%$jR:#iQ9!hP8~g07
A timed out. Sending packet with seqnum 0, and checksum 241262 again
A timed out. Sending packet with seqnum 0, and checksum 241262 again
B gettin' a packet with seqnum 0, and checksum 241262
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 241262
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: %kS%$jR:#iQ9!hP8~gO7
A sending packet with segnum 1 and checksum 224122 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 224122
Packet Corrupt!
```

```
Recieved checksum: 224122, seqnum: 1, acknum: 0
Recieved packet data is: %kS%$jR:#!Q9ihP8~gO7
Expected checksum: 229090
Packet Corrupt!
Recieved checksum: 224122, seqnum: 1, acknum: 0
Recieved packet data is: %kS%$jR:#!Q9ihP8~gO7
Expected checksum: 229090
Packet corrupt
Sending bACK a NAK!
A: 730169.2702, Layer 5 to 4 Message = &\wq&e XRLF?93-'~xrl
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 224122 and data %kS%$jR:#iQ9!hP8~gO7. corrupted from
A to B, resending
A: 730417.7645, Layer 5 to 4 Message = '2=IT'kv$x:FQ]hs\sim,7C
A timed out. Sending packet with segnum 1, and checksum 224122 again
B gettin' a packet with seqnum 1, and checksum 224122
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   730676.7492, Layer 4 to 5 Message = %kS%$jR:#iQ9!hP8~g07
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: & \ wq&e XRLF?93-'~xrl
A sending packet with segnum 0 and checksum 249383 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 249383
Packet Corrupt!
Recieved checksum: 249383, segnum: 0, acknum: 0
Expected checksum: 251383
Packet Corrupt!
Recieved checksum: 249383, seqnum: 0, acknum: 0
Recieved packet data is: & wq&e ?RLFX93-'~xrl
Expected checksum: 251383
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 21936
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 21936
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 249383 and data & \ wq&e XRLF?93-'~xrl.
A: 730733.4088, Layer 5 to 4 Message = (Eb~=Z(6SpxLi(Eb~=Zw
A timed out. Sending packet with segnum 0, and checksum 249383 again
B gettin' a packet with seqnum 0, and checksum 249383
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
```

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Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 3204
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 3204
A: no valid ACK, got instead with corruption. Resending packet with
checksum 249383 and data &}wq&e_XRLF?93-'~xrl. A: 731357.2926, Layer 5 to 4 Message = dW(V'U\&)%S$R2Q!P~O}N
A timed out. Sending packet with seqnum 0, and checksum 249383 again
B gettin' a packet with segnum 0, and checksum 249383
Packet Corrupt!
Recieved checksum: 249383, segnum: 0, acknum: 0
Recieved packet data is: & wq&e XR~F?93-'Lxrl
Expected checksum: 239933
Packet Corrupt!
Recieved checksum: 249383, segnum: 0, acknum: 0
Recieved packet data is: &}wq&e XR~F?93-'Lxrl
Expected checksum: 239933
Packet corrupt
Sending bACK a NAK!
    731951.1907, Layer 5 to 4 Message = *jL.nP2r*6vX:z]>~aC%
A: 732122.8149, Layer 5 to 4 Message = +|pdWK>2&+k_RF9-~rfY
A timed out. Sending packet with seqnum 0, and checksum 249383 again
A: 732610.4710, Layer 5 to 4 Message = ,f6;AFKPUZ,ejo3y~&+0
A timed out. Sending packet with seqnum 0, and checksum 249383 again
B gettin' a packet with seqnum 0, and checksum 249383
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 249383
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: '2=IT'kv$x:FQ]hs~,7C
A sending packet with seqnum 1 and checksum 232277 from the queue
A sending packet to B
   732876.1536, Layer 5 to 4 Message = -DZg*AWn'=T-$:Qh~7Ne
A:
A: 733202.8914, Layer 5 to 4 Message = .V~Iq;d.V~Iq.d.V~Iq;
A timed out. Sending packet with seqnum 1, and checksum 232277 again
B gettin' a packet with seqnum 1, and checksum 232277
Packet Corrupt!
Recieved checksum: 232277, seqnum: 1, acknum: 0
Recieved packet data is: '2=IT'kv$]:FQxhs~,7C
Expected checksum: 234869
Packet Corrupt!
Recieved checksum: 232277, seqnum: 1, acknum: 0
Recieved packet data is: '2=IT'kv$]:FQxhs~,7C
Expected checksum: 234869
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 232277 again
B gettin' a packet with segnum 1, and checksum 232277
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
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B: 733787.3788, Layer 4 to 5 Message = '2=IT'kv$x:FQ]hs~,7C
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 41985
Recieved packet data is: ACK
Expected checksum: -83036
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 41985
Recieved packet data is: ACK
Expected checksum: -83036
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 232277 and data '2=IT'kvx:FQhs~,7C.
A timed out. Sending packet with seqnum 1, and checksum 232277 again
   734684.1227, Layer 5 to 4 Message = xiE \sim Z6pL(b=wSxiE \sim Z6p
A timed out. Sending packet with seqnum 1, and checksum 232277 again
B gettin' a packet with seqnum 1, and checksum 232277
Packet Corrupt!
Recieved checksum: 232277, seqnum: 1, acknum: 0
Recieved packet data is: '2=,T'kv$x:FQ]hs~I7C
Expected checksum: 241209
Packet Corrupt!
Recieved checksum: 232277, segnum: 1, acknum: 0
Recieved packet data is: '2=,T'kv$x:FQ]hs~I7C
Expected checksum: 241209
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 232277 again
A timed out. Sending packet with seqnum 1, and checksum 232277 again
B gettin' a packet with segnum 1, and checksum 232277
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 232277
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: (Eb~=Z(6SpxLi(Eb~=Zw
A sending packet with segnum 0 and checksum 259171 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 259171
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   735823.6000, Layer 4 to 5 Message = (Eb~=Z(6SpxLi(Eb~=Zw
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dW(V'U&)%S$R2Q!P~O}N
A sending packet with segnum 1 and checksum 228658 from the queue
A sending packet to B
A:
   736211.5485, Layer 5 to 4 Message = d{iVD1|jWE2}2X03~1YG
A timed out. Sending packet with seqnum 1, and checksum 228658 again
B gettin' a packet with seqnum 1, and checksum 228658
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
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B sending message up to layer 5 and updating newest recieved data

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B: 736344.7281, Layer 4 to 5 Message = dW(V'U\&) %S$R2Q!P~O}N
Setting comp seqnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 228658 again
B gettin' a packet with seqnum 1, and checksum 228658
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 5111808, acknum: 0
Recieved packet data is:
Expected checksum: 15336282
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 5111808. last_transmitted seqnum: 1
Last sent packet Checksum: 228658
Packet Corrupt!
Recieved checksum: 936, seqnum: 5111808, acknum: 0
Recieved packet data is:
Expected checksum: 15336282
A: no valid ACK, got instead with corruption. Resending packet with
checksum 228658 and data dW(V'U&)%S$R2Q!P~O}N.
B gettin' a packet with segnum 1, and checksum 228658
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 228658 again
A: 737659.5134, Layer 5 to 4 Message = 10x.-,+*) ('&\$\$\$1\^\\| \{
A timed out. Sending packet with seqnum 1, and checksum 228658 again
B gettin' a packet with seqnum 1, and checksum 671317298
Packet Corrupt!
Recieved checksum: 671317298, segnum: 1, acknum: 0
Recieved packet data is: bW
Expected checksum: 228465
Packet Corrupt!
Recieved checksum: 671317298, segnum: 1, acknum: 0
Recieved packet data is: bW
Expected checksum: 228465
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 228658
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: *jL.nP2r*6vX:z]>~aC%
A sending packet with seqnum 0 and checksum 230277 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 230277
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 737887.9961, Layer 4 to 5 Message = *jL.nP2r*6vX:z]>~aC%
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: +|pdWK>2&+k RF9-~rfY
A sending packet with segnum 1 and checksum 245886 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 245886
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Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data B: 737895.4514, Layer 4 to 5 Message = +|pdWK>2&+k_RF9-~rfY
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 245886 again
B gettin' a packet with seqnum 1, and checksum 245886
incorrect seanum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 10036
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 245886
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 10036
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 245886 and data +|pdWK>2&+k RF9-~rfY.
    738549.5777, Layer 5 to 4 Message = 2CSdt'7HXiy,<M^n21BR
    738697.7395, Layer 5 to 4 Message = 3Uw;^!Df*Ln2Tv:]~3e)
A: 738852.6847, Layer 5 to 4 Message = 4h=qGzP&Yxc8lBuK~T4^
A timed out. Sending packet with segnum 1, and checksum 245886 again
    739016.6832, Layer 5 to 4 Message = 5fbI0u]D+pW>&k39~fM5
   739237.6251, Layer 5 to 4 Message = 6x(~wpibZSLE=6x(~wpi
A timed out. Sending packet with seqnum 1, and checksum 245886 again
A timed out. Sending packet with segnum 1, and checksum 245886 again
A timed out. Sending packet with segnum 1, and checksum 245886 again
B gettin' a packet with segnum 1, and checksum 245886
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 245886
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ,f6;AFKPUZ,ejo3y~&+0
A sending packet with segnum 0 and checksum 216068 from the queue
A sending packet to B
B gettin' a packet with seqnum 13824, and checksum 216068
Packet Corrupt!
Recieved checksum: 216068, seqnum: 13824, acknum: 0
Recieved packet data is: ,f
Expected checksum: 257054
Packet Corrupt!
Recieved checksum: 216068, segnum: 13824, acknum: 0
Recieved packet data is: ,f
Expected checksum: 257054
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is:
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Expected checksum: 3666
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 3666
A: no valid ACK, got instead with corruption. Resending packet with
checksum 216068 and data ,f6; AFKPUZ, ejo3y~&+0.
B gettin' a packet with seqnum 0, and checksum 216068
Packet Corrupt!
Recieved checksum: 216068, seqnum: 0, acknum: 1258291200
Recieved packet data is: ,f6;AF
Expected checksum: 1778597289
Packet Corrupt!
Recieved checksum: 216068, seqnum: 0, acknum: 1258291200
Recieved packet data is: ,f6;AF
Expected checksum: 1778597289
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 216068 and data ,f6;AFKPUZ,ejo3y~&+0. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 216068
Packet Corrupt!
Recieved checksum: 216068, seqnum: 0, acknum: 0
Recieved packet data is: ~f6; AFKPUZ, ejo3y, &+0
Expected checksum: 192452
Packet Corrupt!
Recieved checksum: 216068, seqnum: 0, acknum: 0
Recieved packet data is: ~f6; AFKPUZ, ejo3y, &+0
Expected checksum: 192452
Packet corrupt
Sending bACK a NAK!
A: 740608.0352, Layer 5 to 4 Message = d7LVaku!, 6AK2 jt~+5?
A timed out. Sending packet with seqnum 0, and checksum 216068 again
B gettin' a packet with seqnum 1711276032, and checksum 216068
Packet Corrupt!
Recieved checksum: 216068, seqnum: 1711276032, acknum: 0
Recieved packet data is: ,
Expected checksum: 839076460
Packet Corrupt!
Recieved checksum: 216068, seqnum: 1711276032, acknum: 0
Recieved packet data is: ,
Expected checksum: 839076460
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 216068 again
B gettin' a packet with seqnum 2490368, and checksum 216068
Packet Corrupt!
Recieved checksum: 216068, seqnum: 2490368, acknum: 0
Recieved packet data is: ,f6;AFKPUZ,ejo3y~
Expected checksum: 7674860
Packet Corrupt!
Recieved checksum: 216068, seqnum: 2490368, acknum: 0
Recieved packet data is: ,f6;AFKPUZ,ejo3y~
Expected checksum: 7674860
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
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Bad ACK or NAK determined by A
Packet with checksum 216068 and data ,f6;AFKPUZ,ejo3y~&+0. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 216068
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 741510.0342, Layer 4 to 5 Message = ,f6;AFKPUZ,ejo3y\sim&+0
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: -DZq*AWn'=T-$:Qh~7Ne
A sending packet with segnum 1 and checksum 228550 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 228550
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 741542.6683, Layer 4 to 5 Message = -DZq*AWn'=T-$:Qh~7Ne
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: .V~Iq;d.V~Iq.d.V~Iq;
A sending packet with segnum 0 and checksum 244278 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 244278 again
B gettin' a packet with segnum 0, and checksum 244278
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   742076.8256, Layer 4 to 5 Message = .V~Iq;d.V~Iq.d.V~Iq;
Setting comp_seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: xiE~Z6pL(b=wSxiE~Z6p
A sending packet with seqnum 1 and checksum 263910 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 263910
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 742087.1313, Layer 4 to 5 Message = xiE~Z6pL(b=wSxiE~Z6p
Setting comp_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: d{iVD1|jWE2}2X03~1YG
A sending packet with seqnum 0 and checksum 238646 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 238646
Packet Corrupt!
Recieved checksum: 238646, seqnum: 0, acknum: 0
Recieved packet data is: b{iVD1|jWE2}3X03Y1~G
Expected checksum: 241477
Packet Corrupt!
Recieved checksum: 238646, seqnum: 0, acknum: 0
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Recieved packet data is: b{iVD1|jWE2}3X03Y1~G

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Expected checksum: 241477
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 238646 and data d{iVD1|jWE2}2X03~lYG. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 238646
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 742146.6380, Layer 4 to 5 Message = d{iVD1|jWE2}2X03~1YG
Setting comp_seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: 10x.-,+*)('&%$#1~}|{}
A sending packet with seqnum 1 and checksum 231605 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 231605
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 742157.0548, Layer 4 to 5 Message = 10x.-,+*) ('&\$\$\$\$1\~\}|{
Setting comp segnum from 1 to 0
A: 742190.5076, Layer 5 to 4 Message = 8T8.Jf$?[w5Qm+Gc~<Xt
A timed out. Sending packet with seqnum 1, and checksum 231605 again
B gettin' a packet with seqnum 1, and checksum 231605
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 231605 again
B gettin' a packet with segnum 1, and checksum 231605
Packet Corrupt!
Recieved checksum: 231605, seqnum: 1, acknum: 0
Recieved packet data is: 10x.\%, +*)('\&-$\#1~)|{
Expected checksum: 232757
Packet Corrupt!
Recieved checksum: 231605, seqnum: 1, acknum: 0
Recieved packet data is: 10x.\%, +*)('\&-$\#1~)|{
Expected checksum: 232757
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 231605
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 2CSdt'7HXiy, <M^n21BR
A sending packet with segnum 0 and checksum 214294 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 214294
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 743219.4553, Layer 4 to 5 Message = 2CSdt'7HXiy,<M^n21BR
Setting comp seqnum from 0 to 1
A timed out. Sending packet with segnum 0, and checksum 214294 again
B gettin' a packet with segnum 0, and checksum 214294
incorrect seqnum
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expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 214294
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 3Uw;^!Df*Ln2Tv:]~3e)
A sending packet with segnum 1 and checksum 227223 from the queue
A sending packet to B
A: 744168.3402, Layer 5 to 4 Message = 9g693a0^-Z*W'T$Q~N{K}
A timed out. Sending packet with seqnum 1, and checksum 227223 again
B gettin' a packet with seqnum 1, and checksum 227223
Packet Corrupt!
Recieved checksum: 227223, seqnum: 1, acknum: 0
Recieved packet data is: 3Uw;^!D*fLn2Tv:]~3e)
Expected checksum: 228243
Packet Corrupt!
Recieved checksum: 227223, segnum: 1, acknum: 0
Recieved packet data is: 3Uw; ^!D*fLn2Tv:]~3e)
Expected checksum: 228243
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 227223 and data 3Uw;^!Df*Ln2Tv:]~3e). corrupted from
A to B, resending
A timed out. Sending packet with seqnum 1, and checksum 227223 again
B gettin' a packet with segnum 1, and checksum 227223
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   744752.9508, Layer 4 to 5 Message = 3Uw; ^!Df*Ln2Tv:] ~ 3e)
Setting comp\_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: 4h=qGzP&Yxc8lBuK~T4^
A sending packet with seqnum 0 and checksum 251234 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 251234
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 744760.9198, Layer 4 to 5 Message = 4h=qGzP&Yxc8lBuK~T4^
Setting comp_seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 251234 again
B gettin' a packet with seqnum 0, and checksum 251234
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 251234 again
B gettin' a packet with segnum 0, and checksum 251234
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A: 745788.9386, Layer 5 to 4 Message = :yZ;:[\{\}=|^>\} ?~`A!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 251234
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Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 5fbIOu]D+pW>&k39~fM5
A sending packet with segnum 1 and checksum 222816 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 222816
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 745796.9159, Layer 4 to 5 Message = 5fbI0u]D+pW>&k39~fM5
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: 6x(~wpibZSLE=6x(~wpi
A sending packet with seqnum 0 and checksum 271514 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 271514 again
   746563.1844, Layer 5 to 4 Message = ;.~qd;I;.~qdVI;.~qdV
A timed out. Sending packet with seqnum 0, and checksum 271514 again
B gettin' a packet with seqnum 0, and checksum 271514
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 746811.6670, Layer 4 to 5 Message = 6x(~wpibZSLE=6x(~wpi
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: d7LVaku!, 6AK2`jt~+5?
A sending packet with seqnum 1 and checksum 219548 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 219548
Packet Corrupt!
Recieved checksum: 219548, seqnum: 1, acknum: 0
Recieved packet data is: b6LVaku!,7AK3`jt~+5?
Expected checksum: 219811
Packet Corrupt!
Recieved checksum: 219548, seqnum: 1, acknum: 0
Recieved packet data is: b6LVaku!, 7AK3`jt~+5?
Expected checksum: 219811
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 219548 again
B gettin' a packet with segnum 1, and checksum 207772
Packet Corrupt!
Recieved checksum: 207772, seqnum: 1, acknum: 0
Recieved packet data is: b7LVaku!,6AK3`jt~Y5?
Expected checksum: 234619
Packet Corrupt!
Recieved checksum: 207772, seqnum: 1, acknum: 0
Recieved packet data is: b7LVaku!,6AK3`jt~Y5?
Expected checksum: 234619
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 219548 again
B gettin' a packet with segnum 1, and checksum 219548
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 747858.5395, Layer 4 to 5 Message = d7LVaku!, 6AK2 = t^2
```

```
Setting comp seqnum from 1 to 0
A: 748017.2691, Layer 5 to 4 Message = \langle AEIMQ \langle Y^bfjnrvz \sim 8 \rangle
A timed out. Sending packet with segnum 1, and checksum 219548 again
A timed out. Sending packet with seqnum 1, and checksum 219548 again
B gettin' a packet with seqnum 1, and checksum 219548
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 219548
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 8T8.Jf$?[w5Qm+Gc~<Xt
A sending packet with seqnum 0 and checksum 252411 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 252411
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
\ensuremath{\mathtt{B}} sending message up to layer 5 and updating newest recieved data
   748873.5790, Layer 4 to 5 Message = 8T8.Jf$?[w5Qm+Gc~<Xt
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: 9g693a0^-Z*W'T$Q~N{K
A sending packet with segnum 1 and checksum 233163 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 233163
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   748887.0106, Layer 4 to 5 Message = 9g693a0^-Z*W'T$Q~N{K
Setting comp segnum from 1 to 0
A: 749139.4296, Layer 5 to 4 Message = Si \sim 6Lb = xEZp (Si \sim 6Lb
   749306.2072, Layer 5 to 4 Message = dfxV}Gn7>(Ov2g3W~Ho8
A timed out. Sending packet with seqnum 1, and checksum 233163 again
A timed out. Sending packet with seqnum 1, and checksum 233163 again
B gettin' a packet with seqnum 1, and checksum 233163
Packet Corrupt!
Recieved checksum: 233163, seqnum: 1, acknum: 0
Recieved packet data is: 9g6a390^-Z*W'T$Q~N{K
Expected checksum: 232363
Packet Corrupt!
Recieved checksum: 233163, seqnum: 1, acknum: 0
Recieved packet data is: 9g6a390^-Z*W'T$Q~N{K
Expected checksum: 232363
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, segnum: 1090519040, acknum: 0
Recieved packet data is: N
Expected checksum: -1023409500
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1090519040. last transmitted segnum: 1
Last sent packet Checksum: 233163
Packet Corrupt!
Recieved checksum: 936, seqnum: 1090519040, acknum: 0
```

```
Recieved packet data is: N
Expected checksum: -1023409500
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 233163 and data 9g693a0^-Z*W'T$Q~N\{K.
B gettin' a packet with seqnum 1, and checksum 233163
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
   750337.9355, Layer 5 to 4 Message = 2xS.gBzU0?D|W2kF\sim Y4m
A timed out. Sending packet with segnum 1, and checksum 233163 again
B gettin' a packet with segnum 1, and checksum 233163
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 233163
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: :yZ;:[<{]=|^>} ?~`A!
A sending packet with seqnum 0 and checksum 236594 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 236594
Packet Corrupt!
Recieved checksum: 236594, segnum: 0, acknum: 8060928
Recieved packet data is: :yZ;:[<
Expected checksum: -15893134
Packet Corrupt!
Recieved checksum: 236594, seqnum: 0, acknum: 8060928
Recieved packet data is: :yZ;:[<
Expected checksum: -15893134
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 236594 and data :yZ;:[<{]=|^>} ?~`A!. corrupted from
A to B, resending
A timed out. Sending packet with seqnum 0, and checksum 236594 again
B gettin' a packet with seqnum 0, and checksum 236594
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 750956.7580, Layer 4 to 5 Message = :yZ;:[\{ \} = |^{>} \} ?~ `A!
Setting comp segnum from 0 to 1
A: 750959.9064, Layer 5 to 4 Message = A-wdP<)s`LA%o[H4~kWD
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ;.~qd;I;.~qdVI;.~qdV
A sending packet with segnum 1 and checksum 256906 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 256906
Packet Corrupt!
Recieved checksum: 256906, segnum: 1, acknum: 15104
Recieved packet data is: ;.~qd
Expected checksum: 224574
Packet Corrupt!
Recieved checksum: 256906, seqnum: 1, acknum: 15104
Recieved packet data is: ;.~qd
Expected checksum: 224574
```

Packet corrupt

```
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, segnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: -33061
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: -33061
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 256906 and data ;.~qd;I;.~qdVI;.~qdV.
B gettin' a packet with seqnum 1, and checksum 256906
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 751002.7021, Layer 4 to 5 Message = ;.~qd;I;.~qdVI;.~qdV
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 11987
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 11987
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 256906 and data ;.~qd;I;.~qdVI;.~qdV.
B gettin' a packet with segnum 1, and checksum 256906
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A: 751259.3866, Layer 5 to 4 Message = B?=;97531x-B)'%#~|zx
A timed out. Sending packet with seqnum 1, and checksum 256906 again
B gettin' a packet with seqnum 1, and checksum 256906
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 256906
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: <AEIMQ<Y^bfjnrvz~%) -
A sending packet with seqnum 0 and checksum 240448 from the queue
A sending packet to B
   752039.6232, Layer 5 to 4 Message = CRbq#2BQap!1CP`o~0?0
A timed out. Sending packet with seqnum 0, and checksum 240448 again
B gettin' a packet with seqnum 0, and checksum 240448
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 752063.6057, Layer 4 to 5 Message = <AEIMQ<Y^bfjnrvz~%)-
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is:
```

```
Expected checksum: 2489
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 2489
A: no valid ACK, got instead with corruption. Resending packet with
checksum 240448 and data <AEIMO<Y^bfjnrvz~%)-.
A: 752245.9556, Layer 5 to 4 Message = De(Ij-No2St7XD<^~Bc&
A timed out. Sending packet with segnum 0, and checksum 240448 again
A timed out. Sending packet with seqnum 0, and checksum 240448 again
B gettin' a packet with segnum 1073741824, and checksum 240384
Packet Corrupt!
Recieved checksum: 240384, seqnum: 1073741824, acknum: 0
Recieved packet data is: <AEIMQ<Y^bfjnrvz~%) -
Expected checksum: -1073501376
Packet Corrupt!
Recieved checksum: 240384, seqnum: 1073741824, acknum: 0
Recieved packet data is: <AEIMQ<Y^bfjnrvz~%) -</pre>
Expected checksum: -1073501376
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 4259840
Recieved packet data is: N
Expected checksum: -8519001
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 240448
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 4259840
Recieved packet data is: N
Expected checksum: -8519001
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 240448 and data <AEIMQ<Y^bfjnrvz~%)-.
B gettin' a packet with seqnum 0, and checksum 240448
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 240448
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: =Si~6Lb=xEZp(=Si~6Lb
A sending packet with seqnum 1 and checksum 244527 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 244527
Packet Corrupt!
Recieved checksum: 244527, segnum: 1, acknum: 7340032
Recieved packet data is: =Si~6Lb=xEZ
Expected checksum: -14451665
Packet Corrupt!
Recieved checksum: 244527, seqnum: 1, acknum: 7340032
Recieved packet data is: =Si~6Lb=xEZ
Expected checksum: -14451665
Packet corrupt
Sending bACK a NAK!
```

```
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 1090519041, acknum: 0
Recieved packet data is: N
Expected checksum: -1023409497
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1090519041. last transmitted segnum: 1
Last sent packet Checksum: 244527
Packet Corrupt!
Recieved checksum: 939, segnum: 1090519041, acknum: 0
Recieved packet data is: N
Expected checksum: -1023409497
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 244527 and data =Si~6Lb=xEZp(=Si~6Lb.
B gettin' a packet with segnum 1, and checksum 244527
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 753186.5626, Layer 4 to 5 Message = =Si~6Lb=xEZp(=Si~6Lb
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dfxV}Gn7>(Ov2g3W~Ho8
A sending packet with segnum 0 and checksum 237649 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 237649
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   753216.7131, Layer 4 to 5 Message = dfxVGn7>(Ov2q3W~Ho8
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ?xS.gBzU0?D|W2kF~Y4m
A sending packet with seqnum 1 and checksum 248713 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 248713
Packet Corrupt!
Recieved checksum: 248713, segnum: 1, acknum: 0
Recieved packet data is: ?xS.gkzU0?D|W2BF~Y4m
Expected checksum: 240964
Packet Corrupt!
Recieved checksum: 248713, seqnum: 1, acknum: 0
Recieved packet data is: ?xS.gkzU0?D|W2BF~Y4m
Expected checksum: 240964
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 0, acknum: 16777216
Recieved packet data is: NAK
Expected checksum: -33553496
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 248713
Packet Corrupt!
```

```
Recieved checksum: 939, seqnum: 0, acknum: 16777216
Recieved packet data is: NAK
Expected checksum: -33553496
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 248713 and data ?xS.gBzU0?D|W2kF~Y4m.
B gettin' a packet with segnum 1, and checksum 248713
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 753272.7729, Layer 4 to 5 Message = 2xS.qBzU0?D|W2kF\sim Y4m
Setting comp\_seqnum\ from\ 1 to 0
A: 753529.9593, Layer 5 to 4 Message = EwL~S(Zxb6i=pEEL~S(Z
A timed out. Sending packet with seqnum 1, and checksum 248713 again
B gettin' a packet with segnum 1, and checksum 248713
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 248713
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: A-wdP<)s`LA%o[H4~kWD
A sending packet with segnum 0 and checksum 240733 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 240733
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   753805.9047, Layer 4 to 5 Message = A-wdP<)s`LA%o[H4~kWD
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: B?=;97531x-B)'%#~|zx
A sending packet with segnum 1 and checksum 242411 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 242411
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   753859.3203, Layer 4 to 5 Message = B?=;97531x-B)'% + 2x
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 164, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1007
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 164, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1007
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 242411 and data B?=;97531x-B)'%\#\sim|zx.
A: 754221.7595, Layer 5 to 4 Message = d,pV<\#gM3w^D2nTF\sim eK1
A timed out. Sending packet with seqnum 1, and checksum 242411 again
   754491.9129, Layer 5 to 4 Message = G>6.&{skcZRJB91)Gvnf
A: 754707.8454, Layer 5 to 4 Message = HfZdmv!+4=GPYc3u\sim H3<
```

A timed out. Sending packet with seqnum 1, and checksum 242411 again

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B gettin' a packet with seqnum 1, and checksum 242411
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 11010048
Recieved packet data is: NAK
Expected checksum: -22019160
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 242411
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 11010048
Recieved packet data is: NAK
Expected checksum: -22019160
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 242411 and data B?=;97531x-B)'%\#\sim|zx.
B gettin' a packet with segnum 2013265921, and checksum 242411
Packet Corrupt!
Recieved checksum: 242411, seqnum: 2013265921, acknum: 0
Recieved packet data is: B?=;97531
Expected checksum: 1745060875
Packet Corrupt!
Recieved checksum: 242411, segnum: 2013265921, acknum: 0
Recieved packet data is: B?=;97531
Expected checksum: 1745060875
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 242411
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: CRbq#2BQap!1CP`o~0?0
A sending packet with seqnum 0 and checksum 227535 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 227535
Packet Corrupt!
Recieved checksum: 227535, seqnum: 0, acknum: 0
Recieved packet data is: CRbg#2BQap!1CPo`~0?0
Expected checksum: 227070
Packet Corrupt!
Recieved checksum: 227535, segnum: 0, acknum: 0
Recieved packet data is: CRbq#2BQap!1CPo`~0?0
Expected checksum: 227070
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 65, acknum: 0
Recieved packet data is: N
Expected checksum: 871
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 65. last transmitted segnum: 0
Last sent packet Checksum: 227535
Packet Corrupt!
Recieved checksum: 936, segnum: 65, acknum: 0
```

```
Recieved packet data is: N
Expected checksum: 871
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 227535 and data CRbq#2BQap!1CP`o~0?0.
B gettin' a packet with seqnum 0, and checksum 227535
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 754934.1146, Layer 4 to 5 Message = CRbq#2BQap!1CP`o~0?0
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 5024
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 5024
A: no valid ACK, got instead with corruption. Resending packet with
checksum 227535 and data CRbq#2BQap!1CP`o~0?0.
A timed out. Sending packet with seqnum 0, and checksum 227535 again
B gettin' a packet with segnum 0, and checksum 227535
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
A: 755886.0256, Layer 5 to 4 Message = Id~; Vq.Id~; Vq.Id~; Iq
A timed out. Sending packet with seqnum 0, and checksum 227535 again
B gettin' a packet with seqnum 0, and checksum 227535
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 227535
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: De(Ij-No2St7XD<^~Bc&
A sending packet with seqnum 1 and checksum 225929 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 225929 again
A timed out. Sending packet with segnum 1, and checksum 225929 again
A timed out. Sending packet with seqnum 1, and checksum 225929 again
B gettin' a packet with segnum 1, and checksum 225929
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   757476.0106, Layer 4 to 5 Message = De(Ij-No2St7XD<^~Bc&
B:
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: EwL~S(Zxb6i=pEEL~S(Z
A sending packet with seqnum 0 and checksum 234779 from the queue
A sending packet to B
   757554.4340, Layer 5 to 4 Message = JvEq?1:g5b0]+W&R~MyJ
A timed out. Sending packet with seqnum 0, and checksum 234779 again
B gettin' a packet with segnum 0, and checksum 234779
Expected packet compared and confirmed
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B Sending bACK an ACK with checksum: 929

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B sending message up to layer 5 and updating newest recieved data
B: 757980.8682, Layer 4 to 5 Message = EwL~S(Zxb6i=pEEL~S(Z
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: d,pV<#gM3w^D2nTF~eK1
A sending packet with segnum 1 and checksum 235161 from the queue
A sending packet to B
A timed out. Sending packet with segnum 1, and checksum 235161 again
B gettin' a packet with segnum 1, and checksum 235161
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 758497.0754, Layer 4 to 5 Message = d,pV<#gM3w^D2nTF~eK1
Setting comp seqnum from 1 to 0
A: 758961.3921, Layer 5 to 4 Message = K+iI)gG'eE%cC#aA~ >|
A timed out. Sending packet with seqnum 1, and checksum 235\overline{1}61 again
B gettin' a packet with segnum 1, and checksum 235161
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 235161
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: G>6.&{skcZRJB91)Gvnf
A sending packet with segnum 0 and checksum 240030 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 240030 again
A timed out. Sending packet with segnum 0, and checksum 240030 again
   760316.0215, Layer 5 to 4 Message = LLx~pbSE6(wiZL=x~pbS
A timed out. Sending packet with seqnum 0, and checksum 240030 again
B gettin' a packet with segnum 0, and checksum 240030
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 760540.6349, Layer 4 to 5 Message = G>6.&{skcZRJB91}Gvnf
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 240030 again
B gettin' a packet with segnum 0, and checksum 240030
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 16811, seqnum: 1, acknum: 0
Recieved packet data is: N K
Expected checksum: 691
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 240030
Packet Corrupt!
Recieved checksum: 16811, seqnum: 1, acknum: 0
Recieved packet data is: N K
Expected checksum: 691
A: no valid ACK, got N K instead with corruption. Resending packet with
checksum 240030 and data G>6.&{skcZRJB91)Gvnf.
```

A timed out. Sending packet with seqnum 0, and checksum 240030 again

```
B gettin' a packet with seqnum 0, and checksum 240030
Packet Corrupt!
Recieved checksum: 240030, segnum: 0, acknum: 10496
Recieved packet data is: G>6.&{skcZRJB91
Expected checksum: 208542
Packet Corrupt!
Recieved checksum: 240030, seqnum: 0, acknum: 10496
Recieved packet data is: G>6.&{skcZRJB91
Expected checksum: 208542
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1182
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 240030
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1182
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 240030 and data G>6.&{skcZRJB91)Gvnf.
B gettin' a packet with seqnum 54, and checksum 240030
Packet Corrupt!
Recieved checksum: 240030, seqnum: 54, acknum: 0
Recieved packet data is: G>
Expected checksum: 239706
Packet Corrupt!
Recieved checksum: 240030, segnum: 54, acknum: 0
Recieved packet data is: G>
Expected checksum: 239706
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 846, seqnum: 1, acknum: 0
Recieved packet data is: «AK
Expected checksum: 776
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 240030
Packet Corrupt!
Recieved checksum: 846, seqnum: 1, acknum: 0
Recieved packet data is: «AK
Expected checksum: 776
A: no valid ACK, got «AK instead with corruption. Resending packet with
checksum 240030 and data G>6.&{skcZRJB91)Gvnf.
A: 762059.0558, Layer 5 to 4 Message = dPMVY] cfilo2ux{~$'*}
A timed out. Sending packet with segnum 0, and checksum 240030 again
B gettin' a packet with seqnum 0, and checksum 240030
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
```

```
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 240030
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: HfZdmv!+4=GPYc3u~H3<
A sending packet with seqnum 1 and checksum 222606 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 222606 again
B gettin' a packet with segnum 1, and checksum 222606
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 762648.8461, Layer 4 to 5 Message = HfZdmv!+4=GPYc3u\sim H3<
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 164, segnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1175
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 164, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1175
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 222606 and data HfZdmv!+4=GPYc3u~H3<.
B gettin' a packet with seqnum 1, and checksum 222606
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 222606 again
B gettin' a packet with seqnum 1, and checksum 222606
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 222606
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Id~; Vq.Id~; Vq.Id~; Iq
A sending packet with seqnum 0 and checksum 253062 from the queue
A sending packet to B
   763396.4174, Layer 5 to 4 Message = NcwNCWl#7Lau, AUj\sim5J
A timed out. Sending packet with seqnum 0, and checksum 253062 again
B gettin' a packet with segnum 0, and checksum 252928
Packet Corrupt!
Recieved checksum: 252928, seqnum: 0, acknum: 34304
Recieved packet data is: Id~; Vq.Id~; Vq.Id~; Iq
Expected checksum: 184454
Packet Corrupt!
Recieved checksum: 252928, seqnum: 0, acknum: 34304
Recieved packet data is: Id~; Vq.Id~; Vq.Id~; Iq
Expected checksum: 184454
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 253062 and data Id~; Vq.Id~; Vq.Id~; Iq. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 253062
Expected packet compared and confirmed
```

```
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 763729.8895, Layer 4 to 5 Message = Id~; Vq.Id~; Vq.Id~; Iq
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: JvEq?1:q5b0]+W&R~MyJ
A sending packet with segnum 1 and checksum 239595 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 239595 again
A timed out. Sending packet with seqnum 1, and checksum 239595 again
   765145.8908, Layer 5 to 4 Message = Ou=dORxAgxU{Dj2X~Gm5
   765222.5165, Layer 5 to 4 Message = P*b;sP' 8pJ$[5mG~X2j
A:
A timed out. Sending packet with seqnum 1, and checksum 239595 again
B gettin' a packet with segnum 1, and checksum 239595
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 765257.8472, Layer 4 to 5 Message = JvEq?1:q5b0]+W&R~MyJ
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: K+iI) gG'eE%cC#aA~ >|
A sending packet with segnum 0 and checksum 242629 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 242629 again
B gettin' a packet with segnum 0, and checksum 242629
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   765800.3004, Layer 4 to 5 Message = K+iI) qG'eE%cC#aA~>
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 242629 again
B gettin' a packet with seqnum 0, and checksum 242629
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: -1426063360
Recieved packet data is: NAK
Expected checksum: -1442839637
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 242629
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: -1426063360
Recieved packet data is: NAK
Expected checksum: -1442839637
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 242629 and data K+iI)gG'eE%cC#aA~_>|.
A timed out. Sending packet with segnum 0, and checksum 242629 again
B gettin' a packet with seqnum 0, and checksum 242629
Packet Corrupt!
Recieved checksum: 242629, seqnum: 0, acknum: 0
Recieved packet data is: K+iI)gG'eE%cC#a ~A>|
Expected checksum: 240589
Packet Corrupt!
```

```
Recieved checksum: 242629, seqnum: 0, acknum: 0
Recieved packet data is: K+iI)gG'eE%cC#a ~A>|
Expected checksum: 240589
Packet corrupt
Sending bACK a NAK!
      767072.1459, Layer 5 to 4 Message = Qf(q)HQ|hS>*s 35~jUA
A timed out. Sending packet with seqnum 0, and checksum 242629 again
B gettin' a packet with segnum 0, and checksum 242629
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 242629
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: LLx~pbSE6(wiZL=x~pbS
A sending packet with seqnum 1 and checksum 271937 from the queue
 A sending packet to B
B gettin' a packet with seqnum 1, and checksum 271937
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 767317.0801, Layer 4 to 5 Message = LLx~pbSE6(wiZL=x~pbS
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dPMVY] `cfilo2ux{~$'*
A sending packet with seqnum 0 and checksum 235666 from the queue
 A sending packet to B
B gettin' a packet with segnum 0, and checksum 235666
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
      767334.1092, Layer 4 to 5 Message = dPMVY] `cfilo2ux{~$'*
Setting comp segnum from 0 to 1
A: 767537.8843, Layer 5 to 4 Message = ROLIFC?R9630-*'$~{xu}
A timed out. Sending packet with seqnum 0, and checksum 235666 again
A timed out. Sending packet with seqnum 0, and checksum 235666 again
A timed out. Sending packet with seqnum 0, and checksum 235666 again
      769222.5450, Layer 5 to 4 Message = Sbp \sim x = LZSw(6ESbp \sim x = LZSw(6ESb
A timed out. Sending packet with seqnum 0, and checksum 235666 again
A: 769361.3149, Layer 5 to 4 Message = dt6Vv8Xx:Tz<2|> ~Aa#
A timed out. Sending packet with seqnum 0, and checksum 235666 again
A timed out. Sending packet with seqnum 0, and checksum 235666 again
B gettin' a packet with seqnum 0, and checksum 235666
Packet Corrupt!
Recieved checksum: 235666, seqnum: 0, acknum: 0
Recieved packet data is: bPMVY`]cfilo3ux{~$'*
Expected checksum: 235794
Packet Corrupt!
Recieved checksum: 235666, segnum: 0, acknum: 0
Recieved packet data is: bPMVY`]cfilo3ux{~$'*
Expected checksum: 235794
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 235666 again
A timed out. Sending packet with seqnum 0, and checksum 235666 again
```

A: 771343.8465, Layer 5 to 4 Message = U)Z.~3e8j=UCtHyM~R&W

```
A timed out. Sending packet with seqnum 0, and checksum 235666 again
B gettin' a packet with seqnum 0, and checksum 235666
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1371
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 235666
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1371
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 235666 and data dPMVY] `cfilo2ux{~$'*.
B gettin' a packet with seqnum 0, and checksum 235666
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 11064
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 235666
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 11064
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 235666 and data dPMVY] `cfilo2ux{~$'*.
B gettin' a packet with seqnum 0, and checksum 235666
Packet Corrupt!
Recieved checksum: 235666, seqnum: 0, acknum: 99
Recieved packet data is: bPMVY]
Expected checksum: 229299
Packet Corrupt!
Recieved checksum: 235666, seqnum: 0, acknum: 99
Recieved packet data is: bPMVY]
Expected checksum: 229299
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 235666
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: NcwNCWl#7Lau,AUj~5J
A sending packet with seqnum 1 and checksum 240435 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 240435
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
```

```
B sending message up to layer 5 and updating newest recieved data
B: 771936.7727, Layer 4 to 5 Message = NcwNCWl#7Lau, AUj~5J
Setting comp_seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 240435 again
B gettin' a packet with seqnum 1, and checksum 240435
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 240435
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Ou=dORxAgxU{Dj2X~Gm5
A sending packet with seqnum 0 and checksum 251939 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 251939
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   772476.6289, Layer 4 to 5 Message = Ou=dORxAgxU{Dj2X~Gm5
Setting comp segnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 251939 again
   773288.6952, Layer 5 to 4 Message = V; ~dI.qV; ~dV.qV; ~dI.
A timed out. Sending packet with segnum 0, and checksum 251939 again
B gettin' a packet with segnum 29952, and checksum 251939
Packet Corrupt!
Recieved checksum: 251939, seqnum: 29952, acknum: 0
Recieved packet data is: 0
Expected checksum: 341327
Packet Corrupt!
Recieved checksum: 251939, segnum: 29952, acknum: 0
Recieved packet data is: 0
Expected checksum: 341327
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 251939
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: P*b;sP' 8pJ$[5mG~X2j
A sending packet with segnum 1 and checksum 239464 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 239464
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   773497.2613, Layer 4 to 5 Message = P*b;sP' 8pJ$[5mG~X2j
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, segnum: 1, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1130
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 0
Recieved packet data is: ACK
```

```
Expected checksum: 1130
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 239464 and data P*b;sP' 8pJ$[5mG~X2j.
B gettin' a packet with seqnum 9\overline{3}9524097, and checksum 239464
Packet Corrupt!
Recieved checksum: 239464, seqnum: 939524097, acknum: 0
Recieved packet data is: P*b;sP'_
Expected checksum: -1476160080
Packet Corrupt!
Recieved checksum: 239464, seqnum: 939524097, acknum: 0
Recieved packet data is: P*b;sP'_
Expected checksum: -1476160080
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 2136
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 239464
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 2136
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 239464 and data P*b;sP' 8pJ$[5mG~X2j.
B gettin' a packet with seqnum 1, and checksum 239464
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 239464 again
A: 774071.3993, Layer 5 to 4 Message = WNE;2)}tkbXOW<3*~ulc
B gettin' a packet with seqnum 3473409, and checksum 239464
Packet Corrupt!
Recieved checksum: 239464, seqnum: 3473409, acknum: 0
Recieved packet data is: P*b;sP'_8pJ$[
Expected checksum: 10649300
Packet Corrupt!
Recieved checksum: 239464, seqnum: 3473409, acknum: 0
Recieved packet data is: P*b;sP' 8pJ$[
Expected checksum: 10649300
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 239464
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Qf(q]HQ|hS>*s 35~jUA
A sending packet with seqnum 0 and checksum 240217 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 240217
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 774090.9416, Layer 4 to 5 Message = Qf(q]HQ|hS>*s 35\simjUA
Setting comp segnum from 0 to 1
```

```
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ROLIFC?R9630-*'$~{xu
A sending packet with seqnum 1 and checksum 237987 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 237987
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 774104.2435, Layer 4 to 5 Message = ROLIFC?R9630-*'$~{xu
Setting comp seqnum from 1 to 0
A: 774226.6867, Layer 5 to 4 Message = Xaiqy$, 4<EMU^Xnv~)19
A timed out. Sending packet with seqnum 1, and checksum 237987 again
B gettin' a packet with seqnum 1, and checksum 237987
Packet Corrupt!
Recieved checksum: 237987, seqnum: 1, acknum: 0
Recieved packet data is: RRLIFC?09630-*'$~{xu
Expected checksum: 237807
Packet Corrupt!
Recieved checksum: 237987, seqnum: 1, acknum: 0
Recieved packet data is: RRLIFC?09630-*'$~{xu
Expected checksum: 237807
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 237987
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Sbp~x=LZSw(6ESbp~x=L
A sending packet with segnum 0 and checksum 255707 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 671344347
Packet Corrupt!
Recieved checksum: 671344347, seqnum: 0, acknum: 0
Recieved packet data is: Sbp~x=LZSw
Expected checksum: 250867
Packet Corrupt!
Recieved checksum: 671344347, segnum: 0, acknum: 0
Recieved packet data is: Sbp~x=LZSw
Expected checksum: 250867
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 6336
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 6336
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 255707 and data Sbp~x=LZSw(6ESbp~x=L.
B gettin' a packet with segnum 0, and checksum 255707
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
```

```
B sending message up to layer 5 and updating newest recieved data
B: 774644.7477, Layer 4 to 5 Message = Sbp~x=LZSw(6ESbp~x=L
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dt6Vv8Xx:Tz<2|> ~Aa#
A sending packet with segnum 1 and checksum 233325 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 233325
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   774653.9400, Layer 4 to 5 Message = dt6Vv8Xx:Tz<2|> ~Aa#
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: U) Z. `3e8j=UCtHyM~R&W
A sending packet with segnum 0 and checksum 241259 from the queue
A sending packet to B
B gettin' a packet with segnum 8257536, and checksum 241259
Packet Corrupt!
Recieved checksum: 241259, segnum: 8257536, acknum: 0
Recieved packet data is: U) Z. `3e8j=UCtHyM
Expected checksum: 24977453
Packet Corrupt!
Recieved checksum: 241259, segnum: 8257536, acknum: 0
Recieved packet data is: U) Z. `3e8j=UCtHyM
Expected checksum: 24977453
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 241259 and data U)Z. 3e8j=UCtHyM~R&W. corrupted from
A to B, resending
A: 774717.8448, Layer 5 to 4 Message = YsxIc|8Rl(B[u1Ye~:Tn
   774778.8488, Layer 5 to 4 Message = ZfS~LwEp=i6bxZ3Z~LwE
A timed out. Sending packet with seqnum 0, and checksum 241259 again
A timed out. Sending packet with seqnum 0, and checksum 241259 again
B gettin' a packet with segnum 0, and checksum 241259
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 775722.1686, Layer 4 to 5 Message = U)Z.~3e8j=UCtHyM~R&W
Setting comp_seqnum from 0 to 1
A: 776073.1049, Layer 5 to 4 Message = d:wV5rQ0mL+h2&cB[^<y
A timed out. Sending packet with seqnum 0, and checksum 241259 again
B gettin' a packet with seqnum 0, and checksum 241259
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 241259
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: V;~dI.qV;~dV.qV;~dI.
A sending packet with segnum 1 and checksum 237310 from the queue
A sending packet to B
```

```
B gettin' a packet with seqnum 1, and checksum 237310
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 776232.6388, Layer 4 to 5 Message = V;~dI.qV;~dV.qV;~dI.
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 237310 again
B gettin' a packet with segnum 1, and checksum 237310
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 237310
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: WNE; 2) } tkbXOW < 3 * ~ ulc
A sending packet with seqnum 0 and checksum 260253 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 260253
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 776764.2018, Layer 4 to 5 Message = WNE;2)}tkbXOW<3*~ulc
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 17129
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, segnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 17129
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 260253 and data WNE; 2) } tkbXOW < 3 *~ulc.
A timed out. Sending packet with seqnum 0, and checksum 260253 again
B gettin' a packet with seqnum 0, and checksum 260253
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: -1186
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 260253
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: -1186
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 260253 and data WNE; 2) }tkbXOW<3*~ulc.
B gettin' a packet with segnum 0, and checksum 260253
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
```

```
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1014
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 260253
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1014
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 260253 and data WNE; 2) } tkbXOW < 3 *~ulc.
B gettin' a packet with seqnum 0, and checksum 260253
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 260253
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Xaiqy$, 4<EMU^Xnv~)19
A sending packet with segnum 1 and checksum 224556 from the queue
A sending packet to B
A: 777477.4519, Layer 5 to 4 Message = ]M=.|m^N>x\}n O?0~]^P
A timed out. Sending packet with seqnum 1, and checksum 224556 again
B gettin' a packet with segnum 1, and checksum 224556
Packet Corrupt!
Recieved checksum: 224556, segnum: 1, acknum: 0
Recieved packet data is: Xa$qyi, 4<EMU^Xnv~)19
Expected checksum: 226419
Packet Corrupt!
Recieved checksum: 224556, seqnum: 1, acknum: 0
Recieved packet data is: Xa$qyi, 4<EMU^Xnv~)19
Expected checksum: 226419
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 224556 and data Xaiqy$,4<EMU^Xnv~)19. corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 224556
Packet Corrupt!
Recieved checksum: 224556, seqnum: 1, acknum: 0
Recieved packet data is: XaMqy$,4<EiU^Xnv~)19
Expected checksum: 227692
Packet Corrupt!
Recieved checksum: 224556, seqnum: 1, acknum: 0
Recieved packet data is: XaMqy$,4<EiU^Xnv~)19
Expected checksum: 227692
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 224556 again
B gettin' a packet with segnum 1, and checksum 224556
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 778418.7244, Layer 4 to 5 Message = Xaiqy$,4<EMU^Xnv~)19
```

```
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 224556 again
B gettin' a packet with seqnum 1, and checksum 224556
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
   779361.9753, Layer 5 to 4 Message = ^`bdfhjlnprtvxz|~#^'
A timed out. Sending packet with seqnum 1, and checksum 224556 again
A timed out. Sending packet with segnum 1, and checksum 224556 again
B gettin' a packet with segnum 1, and checksum 224556
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 10036
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 224556
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 10036
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 224556 and data Xaiqy$,4<EMU^Xnv~)19.
B gettin' a packet with segnum 1, and checksum 224556
Packet Corrupt!
Recieved checksum: 224556, seqnum: 1, acknum: 0
Recieved packet data is: Xaiq1$,4<EMU^Xnv~)y9
Expected checksum: 248748
Packet Corrupt!
Recieved checksum: 224556, segnum: 1, acknum: 0
Recieved packet data is: Xaiq1$, 4<EMU^Xnv~)y9
Expected checksum: 248748
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 224556
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: YsxIc|8Rl(B[u1Ye~:Tn
A sending packet with seqnum 0 and checksum 256277 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 256277
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   779924.0127, Layer 4 to 5 Message = YsxIc|8Rl(B[u1Ye~:Tn
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: -1593835520, acknum: 1
Recieved packet data is: ACK
Expected checksum: -486538335
Bad ACK or NAK determined by A
ACK seq number and last transmitted segnum don't match!
packet's seqnum: -1593835520. last transmitted seqnum: 0
```

```
Last sent packet Checksum: 256277
Packet Corrupt!
Recieved checksum: 768, seqnum: -1593835520, acknum: 1
Recieved packet data is: ACK
Expected checksum: -486538335
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 256277 and data YsxIc|8Rl(B[u1Ye~:Tn.
B gettin' a packet with segnum 0, and checksum 256277
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 256277 again
A timed out. Sending packet with seqnum 0, and checksum 256277 again
B gettin' a packet with seqnum 0, and checksum 215317
Packet Corrupt!
Recieved checksum: 215317, seqnum: 0, acknum: 0
Recieved packet data is: Ysxéc|8Rl(B[u1Ye~:Tn
Expected checksum: 254741
Packet Corrupt!
Recieved checksum: 215317, seqnum: 0, acknum: 0
Recieved packet data is: Ysxéc|8Rl(B[u1Ye~:Tn
Expected checksum: 254741
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 256277
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ZfS~LwEp=i6bxZ3Z~LwE
A sending packet with segnum 1 and checksum 260039 from the queue
A sending packet to B
B gettin' a packet with seqnum 126, and checksum 260039
Packet Corrupt!
Recieved checksum: 260039, seqnum: 126, acknum: 0
Recieved packet data is: ZfS~LwEp=i6bxZ3Z LwE
Expected checksum: 224289
Packet Corrupt!
Recieved checksum: 260039, seqnum: 126, acknum: 0
Recieved packet data is: ZfS~LwEp=i6bxZ3Z LwE
Expected checksum: 224289
Packet corrupt
Sending bACK a NAK!
    781334.9839, Layer 5 to 4 Message = _{\rm r}(;Ocv,?Sgz0DWk\sim4H\_781467.2557, Layer 5 to 4 Message = _{\rm r}(;Ocv,?Sgz0DWk\sim4H\_781467.2557,
A timed out. Sending packet with seqnum 1, and checksum 260039 again
B gettin' a packet with seqnum 1, and checksum 260039
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   781485.3110, Layer 4 to 5 Message = ZfS~LwEp=i6bxZ3Z~LwE
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: d:wV5rQ0mL+h2&cB[^<y
A sending packet with segnum 0 and checksum 233664 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 233664 again
B gettin' a packet with seqnum 3932160, and checksum 233664
```

```
Packet Corrupt!
Recieved checksum: 233664, seqnum: 3932160, acknum: 0
Recieved packet data is: b:wV5rQ0mL+h3&cB[^
Expected checksum: 12008651
Packet Corrupt!
Recieved checksum: 233664, seqnum: 3932160, acknum: 0
Recieved packet data is: b:wV5rQ0mL+h3&cB[^
Expected checksum: 12008651
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 233664 again
B gettin' a packet with segnum 0, and checksum 233664
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   782512.6153, Layer 4 to 5 Message = d:wV5rQ0mL+h2&cB[^<y
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ]M=.|m^N>x}n O?0~]`P
A sending packet with segnum 1 and checksum 257425 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 257425
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 782549.0832, Layer 4 to 5 Message = ]M=.|m^N>x}n O?0~]`P
Setting comp\_seqnum\ from\ 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ^`bdfhjlnprtvxz|~#^'
A sending packet with segnum 0 and checksum 271835 from the queue
A sending packet to B
   782560.6861, Layer 5 to 4 Message = aapI!X1hAwP) `80H~W0g
B gettin' a packet with seqnum 0, and checksum 271835
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 782574.7102, Layer 4 to 5 Message = ^`bdfhjlnprtvxz|~#^'
Setting comp segnum from 0 to 1
A: 782941.7295, Layer 5 to 4 Message = bLb~iS=(pZExwbL6~iS=
A timed out. Sending packet with seqnum 0, and checksum 271835 again
B gettin' a packet with seqnum 0, and checksum 271835
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 271835
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: _r(;Ocv,?Sgz0DWk~4H_
A sending packet with seqnum 1 and checksum 245013 from the queue
A sending packet to B
B gettin' a packet with segnum 1979711489, and checksum 245013
Packet Corrupt!
Recieved checksum: 245013, seqnum: 1979711489, acknum: 0
Recieved packet data is: r(;Oc
```

```
Expected checksum: 1644406399
Packet Corrupt!
Recieved checksum: 245013, seqnum: 1979711489, acknum: 0
Recieved packet data is: r(;0c
Expected checksum: 1644406399
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 245013 and data r(;Ocv,?Sgz0DWk~4H . corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 245013
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   783120.1321, Layer 4 to 5 Message = r(;Ocv,?Sgz0DWk~4H)
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: `'Lq8^%Jo6[#Hm4Y~Fk2
A sending packet with segnum 0 and checksum 230179 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 230179
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 783145.9802, Layer 4 to 5 Message = `'Lq8^%Jo6[#Hm4Y~Fk2
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, segnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 2489
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 2489
A: no valid ACK, got instead with corruption. Resending packet with
checksum 230179 and data \Lq8^{\graye0}Jo6[#Hm4Y~Fk2.
B gettin' a packet with segnum 0, and checksum 230179
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 230179
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: aapI!X1hAwP)`8oH~WOg
A sending packet with segnum 1 and checksum 242123 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 242123
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 783195.3978, Layer 4 to 5 Message = aapI!X1hAwP)`80H~W0g
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
```

```
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: bLb~iS=(pZExwbL6~iS=
A sending packet with seqnum 0 and checksum 253126 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 253126
Packet Corrupt!
Recieved checksum: 253126, segnum: 0, acknum: 98
Recieved packet data is: bLb~iS=(pZExw
Expected checksum: 233722
Packet Corrupt!
Recieved checksum: 253126, seqnum: 0, acknum: 98
Recieved packet data is: bLb~iS=(pZExw
Expected checksum: 233722
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 253126 again
B gettin' a packet with seqnum 0, and checksum 253126
Packet Corrupt!
Recieved checksum: 253126, seqnum: 0, acknum: 1644167168
Recieved packet data is: bLb~iS=(pZExw
Expected checksum: 1006866878
Packet Corrupt!
Recieved checksum: 253126, segnum: 0, acknum: 1644167168
Recieved packet data is: bLb~iS=(pZExw
Expected checksum: 1006866878
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 253126 and data bLb~iS=(pZExwbL6~iS=. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 253126
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 783729.3759, Layer 4 to 5 Message = bLb~iS=(pZExwbL6~iS=
Setting comp_seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
   784514.3745, Layer 5 to 4 Message = d ZcRNJFB=952-)%~zvr
A sending packet with segnum 1 and checksum 241846
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 241846
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   784520.2554, Layer 4 to 5 Message = d ZcRNJFB=952-)%~zvr
Setting comp segnum from 1 to 0
A: 784882.7218, Layer 5 to 4 Message = df~.dIVdq~.;IV3q~.;I
A timed out. Sending packet with segnum 1, and checksum 241846 again
A timed out. Sending packet with segnum 1, and checksum 241846 again
B gettin' a packet with seqnum 1, and checksum 241846
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
```

```
Last sent packet Checksum: 241846
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: df~.dIVdg~.;IV3g~.;I
A sending packet with seqnum 0 and checksum 225271 from the queue
A sending packet to B
B gettin' a packet with seqnum 46, and checksum 225271
Packet Corrupt!
Recieved checksum: 225271, segnum: 46, acknum: 0
Recieved packet data is: df~
Expected checksum: 224673
Packet Corrupt!
Recieved checksum: 225271, segnum: 46, acknum: 0
Recieved packet data is: df~
Expected checksum: 224673
Packet corrupt
Sending bACK a NAK!
    785915.1510, Layer 5 to 4 Message = e&Ed%ec$Cb#Ba!A`~? }
A timed out. Sending packet with seqnum 0, and checksum 225\overline{271} again
   786287.8709, Layer 5 to 4 Message = f8i;1>fBrEuHxK{N~Q$T
A timed out. Sending packet with segnum 0, and checksum 225271 again
B gettin' a packet with seqnum 0, and checksum 215543
Packet Corrupt!
Recieved checksum: 215543, seqnum: 0, acknum: 0
Recieved packet data is: df~.doVdq~.;IV3q~.;I
Expected checksum: 226639
Packet Corrupt!
Recieved checksum: 215543, seqnum: 0, acknum: 0
Recieved packet data is: df~.doVdq~.;IV3q~.;I
Expected checksum: 226639
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 225271 and data df~.dIVdq~.;IV3q~.;I. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 225271
Packet Corrupt!
Recieved checksum: 225271, seqnum: 0, acknum: 0
Recieved packet data is: df~.~IVdq~.;IV3qd.;I
Expected checksum: 218407
Packet Corrupt!
Recieved checksum: 225271, segnum: 0, acknum: 0
Recieved packet data is: df~.~IVdq~.;IV3qd.;I
Expected checksum: 218407
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 225271 again
B gettin' a packet with seqnum 0, and checksum 225271
Packet Corrupt!
Recieved checksum: 225271, seqnum: 0, acknum: 0
Recieved packet data is: df~.dIIdq~.;VV3q~.;I
Expected checksum: 226831
Packet Corrupt!
Recieved checksum: 225271, segnum: 0, acknum: 0
Recieved packet data is: df~.dIIdq~.;VV3q~.;I
Expected checksum: 226831
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
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Packet with checksum 225271 and data df~.dIVdq~.;IV3q~.;I. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 8286199
Packet Corrupt!
Recieved checksum: 8286199, seqnum: 0, acknum: 0
Recieved packet data is: df~.dIVdq~.;IV3q .;I
Expected checksum: 189724
Packet Corrupt!
Recieved checksum: 8286199, segnum: 0, acknum: 0
Recieved packet data is: df~.dIVdq~.;IV3q .;I
Expected checksum: 189724
Packet corrupt
Sending bACK a NAK!
A: 787092.5896, Layer 5 to 4 Message = gKxqU9\{gD(jN2tX<\sim cG+
A timed out. Sending packet with seqnum 0, and checksum 225271 again
B gettin' a packet with segnum 0, and checksum 225271
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 787572.5708, Layer 4 to 5 Message = df~.dIVdq~.;IV3q~.;I
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, segnum: 19200, acknum: 1
Recieved packet data is: AC
Expected checksum: 57854
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 19200. last transmitted seqnum: 0
Last sent packet Checksum: 225271
Packet Corrupt!
Recieved checksum: 929, segnum: 19200, acknum: 1
Recieved packet data is: AC
Expected checksum: 57854
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 225271 and data df~.dIVdq~.;IV3q~.;I.
A timed out. Sending packet with seqnum 0, and checksum 225271 again
B gettin' a packet with seqnum 0, and checksum 225271
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1192
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1192
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 225271 and data df~.dIVdq~.;IV3q~.;I.
B gettin' a packet with seqnum 0, and checksum 222455
Packet Corrupt!
Recieved checksum: 222455, seqnum: 0, acknum: 0
Recieved packet data is: of~.dIVdq~.;IV3q~.;I
Expected checksum: 225282
Packet Corrupt!
Recieved checksum: 222455, seqnum: 0, acknum: 0
Recieved packet data is: of~.dIVdq~.;IV3q~.;I
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Expected checksum: 225282
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 16777216, acknum: 0
Recieved packet data is: NAK
Expected checksum: 50332584
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 16777216. last transmitted seqnum: 0
Last sent packet Checksum: 225271
Packet Corrupt!
Recieved checksum: 939, seqnum: 16777216, acknum: 0
Recieved packet data is: NAK
Expected checksum: 50332584
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 225271 and data df~.dIVdq~.;IV3q~.;I.
B gettin' a packet with seqnum 22016, and checksum 225271
Packet Corrupt!
Recieved checksum: 225271, segnum: 22016, acknum: 0
Recieved packet data is: df~.dIVdq~.;I
Expected checksum: 274463
Packet Corrupt!
Recieved checksum: 225271, seqnum: 22016, acknum: 0
Recieved packet data is: df~.dIVdq~.;I
Expected checksum: 274463
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 1090519041, acknum: 0
Recieved packet data is: N
Expected checksum: -1023409497
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1090519041. last transmitted seqnum: 0
Last sent packet Checksum: 225271
Packet Corrupt!
Recieved checksum: 939, seqnum: 1090519041, acknum: 0
Recieved packet data is: N
Expected checksum: -1023409497
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 225271 and data df~.dIVdq~.;IV3q~.;I.
B gettin' a packet with seqnum 0, and checksum 225271
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 225271 again
B gettin' a packet with seqnum 0, and checksum 225271
Packet Corrupt!
Recieved checksum: 225271, seqnum: 0, acknum: 0
Recieved packet data is: df~.;IVdq~.;IV3q~.dI
Expected checksum: 239047
Packet Corrupt!
Recieved checksum: 225271, seqnum: 0, acknum: 0
Recieved packet data is: df~.;IVdq~.;IV3q~.dI
Expected checksum: 239047
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
```

```
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 225271
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: e&Ed%ec$Cb#Ba!A`~? }
A sending packet with seqnum 1 and checksum 246265 from the queue
 A sending packet to B
B gettin' a packet with seqnum 1, and checksum 246265
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 788745.3694, Layer 4 to 5 Message = e&Ed%ec$Cb#Ba!A`~?}
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: f8i;l>fBrEuHxK{N~Q$T
A sending packet with segnum 0 and checksum 248828 from the queue
 A sending packet to B
B gettin' a packet with seqnum 0, and checksum 248828
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 788767.2463, Layer 4 to 5 Message = f8i;1>fBrEuHxK{N~Q$T
Setting comp seqnum from 0 to 1
A: 788809.9621, Layer 5 to 4 Message = h^SI>4*hi TJ?5+~tj`
A timed out. Sending packet with seqnum 0, and checksum 248828 again
B gettin' a packet with segnum 0, and checksum 248828
Packet Corrupt!
Recieved checksum: 248828, segnum: 0, acknum: 0
Recieved packet data is: f8i;l>fBrEuHxK{Q~N$T
Expected checksum: 248624
Packet Corrupt!
Recieved checksum: 248828, seqnum: 0, acknum: 0
Recieved packet data is: f8i;l>fBrEuHxK{Q~N$T
Expected checksum: 248624
Packet corrupt
Sending bACK a NAK!
      789491.8719, Layer 5 to 4 Message = ipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSEiEiSEibw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSZbipw^{(x6=EiSEiEiSEibw^{(x6=EiSEiEiSEibw^{(x6=EiSEiEiSEiEi})})}}}}}}}}}}}}}}}}}}}
A timed out. Sending packet with seqnum 0, and checksum 248828 again
A timed out. Sending packet with segnum 0, and checksum 248828 again
B gettin' a packet with segnum 0, and checksum 248828
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 248828
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: gKxqU9{gD(jN2tX<~cG+
A sending packet with segnum 1 and checksum 231246 from the queue
 A sending packet to B
B gettin' a packet with seqnum 1, and checksum 231246
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 790265.8228, Layer 4 to 5 Message = gKxqU9{gD(jN2tX<~cG+
Setting comp seqnum from 1 to 0
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A: 790502.9985, Layer 5 to 4 Message = d*=Vo*C[txja24Mf~9Rk
A timed out. Sending packet with seqnum 1, and checksum 231246 again
B gettin' a packet with seqnum 1, and checksum 231246
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 231246 again
B gettin' a packet with seqnum 1, and checksum 231246
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 231246
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: h^SI>4*}hi TJ?5+~tj
A sending packet with seqnum 0 and checksum 256764 from the queue
A sending packet to B
   791688.8580, Layer 5 to 4 Message = k7b.X\%OyFp < k3^*T \sim KuB
A timed out. Sending packet with segnum 0, and checksum 256764 again
B gettin' a packet with seqnum 0, and checksum 256764
Packet Corrupt!
Recieved checksum: 256764, seqnum: 0, acknum: 0
Recieved packet data is: h^SI>*4}hi TJ?5+~tj`
Expected checksum: 256894
Packet Corrupt!
Recieved checksum: 256764, seqnum: 0, acknum: 0
Recieved packet data is: h^SI>*4}hi TJ?5+~tj`
Expected checksum: 256894
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 256764 and data h^SI>4*}hi TJ?5+~tj`. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 256764
Packet Corrupt!
Recieved checksum: 256764, seqnum: 0, acknum: 0
Recieved packet data is: h^SI>i*}h4 TJ?5+~tj`
Expected checksum: 253372
Packet Corrupt!
Recieved checksum: 256764, segnum: 0, acknum: 0
Recieved packet data is: h^SI>i*}h4 TJ?5+~tj`
Expected checksum: 253372
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 256764 and data h^SI>4*}hi TJ?5+~tj`. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 256764
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 791854.5897, Layer 4 to 5 Message = h^SI>4*}hi TJ?5+~tj`
Setting comp_seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 256764 again
A timed out. Sending packet with seqnum 0, and checksum 256764 again
B gettin' a packet with seqnum 0, and checksum 256764
incorrect seqnum
```

```
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 256764
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ipw~(x6=EiSZbipw~(x6
A sending packet with segnum 1 and checksum 261628 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 261628
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 792870.0394, Layer 4 to 5 Message = ipw~(x6=EiSZbipw~(x6
Setting comp seqnum from 1 to 0
A: 793006.1240, Layer 5 to 4 Message = 1J(dB)[9uS1ml)eC~]:v
A timed out. Sending packet with seqnum 1, and checksum 261628 again
A timed out. Sending packet with segnum 1, and checksum 261628 again
B gettin' a packet with seqnum 1, and checksum 261628
Packet Corrupt!
Recieved checksum: 261628, seqnum: 1, acknum: 1509949440
Recieved packet data is: ipw~(x6=EiS
Expected checksum: 1275317084
Packet Corrupt!
Recieved checksum: 261628, seqnum: 1, acknum: 1509949440
Recieved packet data is: ipw~(x6=EiS
Expected checksum: 1275317084
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 261628
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d%=Vo*C[txja24Mf~9Rk
A sending packet with seqnum 0 and checksum 253043 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 253043
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 793884.0224, Layer 4 to 5 Message = d%=Vo*C[txja24Mf~9Rk
Setting comp seqnum from 0 to 1
A: 794312.7244, Layer 5 to 4 Message = mfL;+xhWG6&scm31~n^M
A timed out. Sending packet with seqnum 0, and checksum 253043 again
B gettin' a packet with seqnum 0, and checksum 253043
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 253043
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: k7b.X%OyFp<k3^*T~KuB
A sending packet with segnum 1 and checksum 243904 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 243904
```

```
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data B: 794390.7214, Layer 4 to 5 Message = k7b.X\%OyFp<k3^*T\sim KuB
Setting comp seqnum from 1 to 0
A: 794516.3144, Layer 5 to 4 Message = nopqrstuvwxyz\{n\}~!#$
A timed out. Sending packet with seqnum 1, and checksum 243904 again
B gettin' a packet with segnum 1, and checksum 243904
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 243904
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: lJ(dB)[9uS1ml)eC~]:v
A sending packet with seqnum 0 and checksum 256795 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 256795 again
B gettin' a packet with segnum 0, and checksum 256795
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 795429.8812, Layer 4 to 5 Message = 1J(dB)[9uS1m1)eC^{-}:v
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: mfL;+xhWG6&scm31~n^M
A sending packet with segnum 1 and checksum 249341 from the queue
A sending packet to B
A timed out. Sending packet with segnum 1, and checksum 249341 again
B gettin' a packet with segnum 1, and checksum 249341
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 795943.8328, Layer 4 to 5 Message = mfL; +xhWG6&scm31~n^M
Setting comp seqnum from 1 to 0
A: 796287.8129, Layer 5 to 4 Message = 0$61[n#5HZm!4GYo~3FX]
A timed out. Sending packet with seqnum 1, and checksum 249341 again
A timed out. Sending packet with segnum 1, and checksum 249341 again
B gettin' a packet with segnum 1, and checksum 249341
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A: 797362.6132, Layer 5 to 4 Message = p6Z\sim EixSw=b(Lp6ZpEix
A timed out. Sending packet with seqnum 1, and checksum 249341 again
A timed out. Sending packet with seqnum 1, and checksum 249341 again
B gettin' a packet with seqnum 1, and checksum 249341
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 20826
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 249341
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Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 20826
A: no valid ACK, got instead with corruption. Resending packet with
checksum 249341 and data mfL; +xhWG6&scm31~n^M.
B gettin' a packet with seqnum 1, and checksum 249341
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: -1476394240, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 936
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 249341
Packet Corrupt!
Recieved checksum: -1476394240, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 936
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 249341 and data mfL; +xhWG6&scm31~n^M.
B gettin' a packet with seqnum 1, and checksum 249341
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A: 798266.5557, Layer 5 to 4 Message = dI~V.d;qI~V.2;qI~q.d
A timed out. Sending packet with seqnum 1, and checksum 249341 again
B gettin' a packet with seqnum 1, and checksum 249341
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 249341 again
B gettin' a packet with segnum 1, and checksum 249341
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 168, seqnum: 50331648, acknum: 0
Recieved packet data is: NAK
Expected checksum: 150995880
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 50331648. last transmitted seqnum: 1
Last sent packet Checksum: 249341
Packet Corrupt!
Recieved checksum: 168, seqnum: 50331648, acknum: 0
Recieved packet data is: NAK
Expected checksum: 150995880
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 249341 and data mfL;+xhWG6\&scm31~n^M.
A timed out. Sending packet with seqnum 1, and checksum 249341 again
B gettin' a packet with seqnum 1, and checksum 249341
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 3
Recieved packet data is: NAK
Expected checksum: 930
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```
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 249341
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 3
Recieved packet data is: NAK
Expected checksum: 930
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 249341 and data mfL; +xhWG6&scm31~n^M.
B gettin' a packet with segnum 1, and checksum 249341
Packet Corrupt!
Recieved checksum: 249341, seqnum: 1, acknum: 71
Recieved packet data is: mfL;+xhW
Expected checksum: 243448
Packet Corrupt!
Recieved checksum: 249341, seqnum: 1, acknum: 71
Recieved packet data is: mfL;+xhW
Expected checksum: 243448
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 249341
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: nopqrstuvwxyz{n}~!#$
A sending packet with segnum 0 and checksum 252474 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 252474
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 799588.7265, Layer 4 to 5 Message = nopgrstuvwxyz{n}~!#$
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: o$6I[n#5HZm!4GYo~3FX
A sending packet with segnum 1 and checksum 230503 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 230503 again
B gettin' a packet with segnum 1, and checksum 230503
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 800112.9429, Layer 4 to 5 Message = o$6I[n#5Hzm!4GYo~3FX
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: p6Z~EixSw=b(Lp6ZpEix
A sending packet with seqnum 0 and checksum 263746 from the queue
A sending packet to B
A: 800197.4929, Layer 5 to 4 Message = r[E.u H1xbK4{eN7~hr:
A timed out. Sending packet with seqnum 0, and checksum 263746 again
B gettin' a packet with seqnum 0, and checksum 263746
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
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B sending message up to layer 5 and updating newest recieved data
B: 800630.3535, Layer 4 to 5 Message = p6Z\sim EixSw=b (Lp6ZpEix
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 263746 again
A timed out. Sending packet with seqnum 0, and checksum 263746 again
A: 801738.2593, Layer 5 to 4 Message = snid YTOJE?:50+\&~yts
A timed out. Sending packet with seqnum 0, and checksum 263746 again
B gettin' a packet with segnum 7340032, and checksum 263746
Packet Corrupt!
Recieved checksum: 263746, segnum: 7340032, acknum: 0
Recieved packet data is:
Expected checksum: 22283730
Packet Corrupt!
Recieved checksum: 263746, seqnum: 7340032, acknum: 0
Recieved packet data is:
Expected checksum: 22283730
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 263746 again
B gettin' a packet with seqnum 0, and checksum 263746
Packet Corrupt!
Recieved checksum: 263746, seqnum: 0, acknum: 0
Recieved packet data is: i6Z~EpxSw=b(Lp6ZpEix
Expected checksum: 263991
Packet Corrupt!
Recieved checksum: 263746, seqnum: 0, acknum: 0
Recieved packet data is: i6Z~EpxSw=b(Lp6ZpEix
Expected checksum: 263991
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 263746
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dI~V.d;qI~V.2;qI~q.d
A sending packet with seqnum 1 and checksum 247003 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 247003
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 802690.1375, Layer 4 to 5 Message = dI~V.d;qI~V.2;qI~q.d
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: r[E.u HlxbK4{eN7~hr:
A sending packet with segnum 0 and checksum 257527 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 257527
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 802705.5328, Layer 4 to 5 Message = r[E.u H1xbK4{eN7~hr:
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
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Data being dequeued: snid YTOJE?:50+&~yts
A sending packet with seqnum 1 and checksum 247908 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 247908
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 802717.4091, Layer 4 to 5 Message = snid YTOJE?:50+\&~yts
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 17816
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 17816
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 247908 and data snid YTOJE?:50+&~yts.
A: 802964.5960, Layer 5 to 4 Message = t#x; HTamy (4AMYfr~-9F
A: 802978.3438, Layer 5 to 4 Message = uuSq10m-Ki)Ge%Ca~>]z
A timed out. Sending packet with segnum 1, and checksum 247908 again
B gettin' a packet with seqnum 1, and checksum 247908
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 247908
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: t#x; HTamy (4AMYfr~-9F
A sending packet with segnum 0 and checksum 230371 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 230371 again
B gettin' a packet with seqnum 0, and checksum 230371
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 803770.3412, Layer 4 to 5 Message = t \pm x; HTamy (4AMYfr~-9F
Setting comp segnum from 0 to 1
A: 804038.6540, Layer 5 to 4 Message = vfvIxJyKzL{M|N30~P!Q}
A timed out. Sending packet with segnum 0, and checksum 230371 again
B gettin' a packet with seqnum 0, and checksum 230371
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 230371
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: uuSq10m-Ki)Ge%Ca~>]z
A sending packet with segnum 1 and checksum 250219 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 250219
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
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B sending message up to layer 5 and updating newest recieved data
B: 804262.9555, Layer 4 to 5 Message = uuSq10m-Ki)Ge%Ca~>]z
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: vfvIxJyKzL{M|N30~P!Q
A sending packet with segnum 0 and checksum 237115 from the queue
A sending packet to B
A timed out. Sending packet with segnum 0, and checksum 237115 again
B gettin' a packet with segnum 0, and checksum 237115
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 804769.5868, Layer 4 to 5 Message = vfvIxJyKzL\{M|N30\sim P!Q
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 805994.1475, Layer 5 to 4 Message = wZ=wbE(iLxpS6wZ=\sim bE(
A sending packet with segnum 1 and checksum 237523
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 237523
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 806002.8984, Layer 4 to 5 Message = wZ=wbE(iLxpS6wZ=~bE(
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 237523 again
B gettin' a packet with seqnum 1, and checksum 237523
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A: 806719.5353, Layer 5 to 4 Message = dmbVx?4) {peY2C7, ~sh}
A timed out. Sending packet with seqnum 1, and checksum 237523 again
B gettin' a packet with segnum 1, and checksum 237523
Packet Corrupt!
Recieved checksum: 237523, seqnum: 1, acknum: 0
Recieved packet data is: wb=wZE(iLxpS6wZ=~bE(
Expected checksum: 237355
Packet Corrupt!
Recieved checksum: 237523, seqnum: 1, acknum: 0
Recieved packet data is: wb=wZE(iLxpS6wZ=~bE(
Expected checksum: 237355
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 237523
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dmbVx?4) {peY2C7,~sh]
A sending packet with segnum 0 and checksum 252996 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 252996
Packet Corrupt!
Recieved checksum: 252996, seqnum: 0, acknum: 0
Recieved packet data is: bmbVx?4s{peY3C7,~)h]
Expected checksum: 233923
Packet Corrupt!
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Recieved checksum: 252996, seqnum: 0, acknum: 0
Recieved packet data is: bmbVx?4s{peY3C7,~)h]
Expected checksum: 233923
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 252996 and data dmbVx?4) {peY2C7,~sh]. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 252996
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 807090.3986, Layer 4 to 5 Message = dmbVx?4) {peY2C7, ~sh]
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 808559.5613, Layer 5 to 4 Message = y!(.4yAGMSY`flrx~'-3
A sending packet with segnum 1 and checksum 234261
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 234261
Packet Corrupt!
Recieved checksum: 234261, segnum: 1, acknum: 0
Recieved packet data is: y!(.4'AGMSY`flrx~y-3
Expected checksum: 257877
Packet Corrupt!
Recieved checksum: 234261, seqnum: 1, acknum: 0
Recieved packet data is: y!(.4'AGMSY`flrx~y-3
Expected checksum: 257877
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 234261 and data y!(.4yAGMSY`flrx~'-3. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 234261
Packet Corrupt!
Recieved checksum: 234261, seqnum: 1, acknum: 0
Recieved packet data is: y!(.4yAGMSY`~lrxf'-3
Expected checksum: 231381
Packet Corrupt!
Recieved checksum: 234261, seqnum: 1, acknum: 0
Recieved packet data is: y!(.4yAGMSY`~lrxf'-3
Expected checksum: 231381
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 16641, acknum: 0
Recieved packet data is: N
Expected checksum: 50599
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 16641. last transmitted seqnum: 1
Last sent packet Checksum: 234261
Packet Corrupt!
Recieved checksum: 939, segnum: 16641, acknum: 0
Recieved packet data is: N
Expected checksum: 50599
```

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A: no valid ACK, got N instead with corruption. Resending packet with
checksum 234261 and data y!(.4yAGMSY`flrx~'-3.
B gettin' a packet with seqnum 1, and checksum 234261
Packet Corrupt!
Recieved checksum: 234261, seqnum: 1, acknum: 2013265920
Recieved packet data is: y!(.4yAGMSY`flr
Expected checksum: 268638997
Packet Corrupt!
Recieved checksum: 234261, seqnum: 1, acknum: 2013265920
Recieved packet data is: y!(.4yAGMSY`flr
Expected checksum: 268638997
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 234261 again
B gettin' a packet with seqnum 1, and checksum 234261
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   809113.9993, Layer 4 to 5 Message = y!(.4yAGMSY`flrx~'-3
Setting comp segnum from 1 to 0
   809155.9219, Layer 5 to 4 Message = z4Ld{5ze|6Nf}70g~8Ph
A timed out. Sending packet with seqnum 1, and checksum 234261 again
B gettin' a packet with seqnum 1, and checksum 234240
Packet Corrupt!
Recieved checksum: 234240, segnum: 1, acknum: 1376256
Recieved packet data is: y!(.4yAGMSY`flrx~'-3
Expected checksum: -2518251
Packet Corrupt!
Recieved checksum: 234240, seqnum: 1, acknum: 1376256
Recieved packet data is: y!(.4yAGMSY`flrx~'-3
Expected checksum: -2518251
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 234261 again
B gettin' a packet with segnum 1, and checksum 234261
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 234261
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: z4Ld{5ze|6Nf}70g~8Ph
A sending packet with seqnum 0 and checksum 260618 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 260618
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 810142.2616, Layer 4 to 5 Message = z4Ld{5ze|6Nf}70g~8Ph
Setting comp seqnum from 0 to 1
A timed out. Sending packet with segnum 0, and checksum 260618 again
B gettin' a packet with seqnum 13568, and checksum 260618
Packet Corrupt!
Recieved checksum: 260618, segnum: 13568, acknum: 0
Recieved packet data is: z4Ld{
Expected checksum: 299414
Packet Corrupt!
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Recieved checksum: 260618, segnum: 13568, acknum: 0

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Recieved packet data is: z4Ld{
Expected checksum: 299414
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 4259841, acknum: 0
Recieved packet data is: N
Expected checksum: 12780199
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 4259841. last transmitted seqnum: 0
Last sent packet Checksum: 260618
Packet Corrupt!
Recieved checksum: 939, seqnum: 4259841, acknum: 0
Recieved packet data is: N
Expected checksum: 12780199
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 260618 and data z4Ld{5ze|6Nf}70g~8Ph.
A: 810787.9525, Layer 5 to 4 Message = {Gp;e0Y{NwCl7a,U~Js>}}
A timed out. Sending packet with seqnum 0, and checksum 260618 again
A timed out. Sending packet with seqnum 0, and checksum 260618 again
A: 812007.4698, Layer 5 to 4 Message = |Y6qN+fC|Z7rO,gD\sim[8s]
A timed out. Sending packet with segnum 0, and checksum 260618 again
A timed out. Sending packet with seqnum 0, and checksum 260618 again
A: 812681.1197, Layer 5 to 4 Message = }lZI7&raO},xgUD2~m[J
A timed out. Sending packet with seqnum 0, and checksum 260618 again
B gettin' a packet with seqnum 0, and checksum 260618
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 19968
Recieved packet data is:
Expected checksum: -39075
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 260618
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 19968
Recieved packet data is:
Expected checksum: -39075
A: no valid ACK, got instead with corruption. Resending packet with
checksum 260618 and data z4Ld{5ze|6Nf}70g~8Ph.
B gettin' a packet with seqnum 0, and checksum 260618
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 260618
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: {Gp;e0Y{NwCl7a,U~Js>
A sending packet with segnum 1 and checksum 247320 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 247320
Packet Corrupt!
Recieved checksum: 247320, seqnum: 1, acknum: 0
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Recieved packet data is: {GpUe0Y{NwCl7a,;~Js>
Expected checksum: 241080
Packet Corrupt!
Recieved checksum: 247320, seqnum: 1, acknum: 0
Recieved packet data is: {GpUeOY{NwCl7a,;~Js>
Expected checksum: 241080
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 247320 and data {Gp;e0Y{NwCl7a,U~Js>. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 247320
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   813235.3819, Layer 4 to 5 Message = {Gp;e0Y{NwCl7a,U~Js>
Setting comp seqnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 247320 again
B gettin' a packet with segnum 1, and checksum 247320
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 13416
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 247320
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 13416
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 247320 and data {Gp;e0Y{NwCl7a,U~Js>.
B gettin' a packet with seqnum 1, and checksum 247320
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 247320
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: |Y6qN+fC|Z7rO,gD~[8s
A sending packet with seqnum 0 and checksum 252268 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 252268
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   813784.5055, Layer 4 to 5 Message = |Y6qN+fC|Z7rO,qD~[8s
Setting comp segnum from 0 to 1
A: 814101.6969, Layer 5 to 4 Message = \sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim
A timed out. Sending packet with seqnum 0, and checksum 252268 again
B gettin' a packet with segnum 0, and checksum 252268
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
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Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 252268
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: }lZI7&raO},xgUD2~m[J
A sending packet with segnum 1 and checksum 254849 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 254849
Packet Corrupt!
Recieved checksum: 254849, seqnum: 1, acknum: 0
Recieved packet data is: }lZI7&raO}DxgU,2~m[J
Expected checksum: 252353
Packet Corrupt!
Recieved checksum: 254849, segnum: 1, acknum: 0
Recieved packet data is: }lZI7&raO}DxgU,2~m[J
Expected checksum: 252353
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 254849 and data }lZI7&raO},xqUD2~m[J. corrupted from
A to B, resending
A timed out. Sending packet with segnum 1, and checksum 254849 again
B gettin' a packet with seqnum 1, and checksum 254849
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 814851.1257, Layer 4 to 5 Message = }1ZI7&raO},xgUD2~m[J
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A sending packet with segnum 0 and checksum 361543 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 361543
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 815903.1541, Layer 5 to 4 Message = !fEVhy->Pbs'2J3m~2DU
A sending packet with seqnum 1 and checksum 224799
A sending packet to B
B gettin' a packet with segnum 1, and checksum 224799
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   815933.6114, Layer 4 to 5 Message = !fEVhy->Pbs'2J3m~2DU
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
A: 816606.4019, Layer 5 to 4 Message = ##i.Qt9]!Eh-Ps8[~Dg,
A sending packet with segnum 0 and checksum 230547
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A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 230547 again
A timed out. Sending packet with segnum 0, and checksum 230547 again
B gettin' a packet with seqnum 0, and checksum 230547
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 817636.4516, Layer 4 to 5 Message = ##i.Qt9]!Eh-Ps8[~Dq,
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 818049.3988, Layer 5 to 4 Message = X$d:oFzQ(]3h>sJ~U,a
A sending packet with segnum 1 and checksum 241265
A sending packet to B
   818248.5035, Layer 5 to 4 Message = %kS%$jR:#iQ9!hP8~g07
A timed out. Sending packet with seqnum 1, and checksum 241265 again
B gettin' a packet with seqnum 97, and checksum 241265
Packet Corrupt!
Recieved checksum: 241265, segnum: 97, acknum: 0
Recieved packet data is: $X$d:oFzQ(]3h>sJ~U,
Expected checksum: 203153
Packet Corrupt!
Recieved checksum: 241265, segnum: 97, acknum: 0
Recieved packet data is: $X$d:oFzQ(]3h>sJ~U,
Expected checksum: 203153
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 972
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 241265
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 972
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 241265 and data $X$d:oFzQ(]3h>sJ~U,a.
B gettin' a packet with segnum 1, and checksum 241265
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 818581.1489, Layer 4 to 5 Message = $X$d:oFzQ(]3h>sJ~U,a
Setting comp segnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 241265 again
B gettin' a packet with seqnum 1, and checksum 241265
Packet Corrupt!
Recieved checksum: 241265, segnum: 1, acknum: 0
Recieved packet data is: $XQd:oFz$(]3h>sJ~U,a
Expected checksum: 238025
Packet Corrupt!
Recieved checksum: 241265, seqnum: 1, acknum: 0
Recieved packet data is: $XQd:oFz$(]3h>sJ~U,a
Expected checksum: 238025
Packet corrupt
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Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 241265 again
B gettin' a packet with seqnum 1, and checksum 241265
Packet Corrupt!
Recieved checksum: 241265, seqnum: 1, acknum: 1627389952
Recieved packet data is: $X$d:oFzQ(]3h>sJ~U,
Expected checksum: 1040389857
Packet Corrupt!
Recieved checksum: 241265, seqnum: 1, acknum: 1627389952
Recieved packet data is: $X$d:oFzQ(]3h>sJ~U,
Expected checksum: 1040389857
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 241265
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: %kS%$jR:#iQ9!hP8~gO7
A sending packet with segnum 0 and checksum 224119 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 224119
Packet Corrupt!
Recieved checksum: 224119, segnum: 0, acknum: 0
Recieved packet data is: %~S%$jR:#iQ9!hP8kg07
Expected checksum: 218704
Packet Corrupt!
Recieved checksum: 224119, seqnum: 0, acknum: 0
Recieved packet data is: %~S%$jR:#iQ9!hP8kg07
Expected checksum: 218704
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 224119 and data %kS%$jR:#iQ9!hP8~gO7. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 224119
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 819590.5412, Layer 4 to 5 Message = %kS%$jR:#iQ9!hP8~qO7
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 2954
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 2954
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 224119 and data %kS%$jR:#iQ9!hP8~gO7.
B gettin' a packet with segnum 0, and checksum 224119
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
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A timed out. Sending packet with seqnum 0, and checksum 224119 again

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A: 820471.9349, Layer 5 to 4 Message = '2=IT'kv$x:FQ]hs~,7C
A timed out. Sending packet with seqnum 0, and checksum 224119 again
B gettin' a packet with seqnum 0, and checksum 224119
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 224119 again
B gettin' a packet with seqnum 0, and checksum 224119
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 224119 again
A timed out. Sending packet with seqnum 0, and checksum 224119 again
B gettin' a packet with seqnum 603979776, and checksum 224119
Packet Corrupt!
Recieved checksum: 224119, seqnum: 603979776, acknum: 0
Recieved packet data is: %kS%
Expected checksum: 1812162547
Packet Corrupt!
Recieved checksum: 224119, seqnum: 603979776, acknum: 0
Recieved packet data is: %kS%
Expected checksum: 1812162547
Packet corrupt
Sending bACK a NAK!
A: 822354.1039, Layer 5 to 4 Message = (Eb~=Z(6SpxLi(Eb~=Zw
A timed out. Sending packet with segnum 0, and checksum 224119 again
B gettin' a packet with seqnum 0, and checksum 224119
Packet Corrupt!
Recieved checksum: 224119, seqnum: 0, acknum: 126
Recieved packet data is: %kS%$jR:#iQ9!hP8
Expected checksum: 187453
Packet Corrupt!
Recieved checksum: 224119, seqnum: 0, acknum: 126
Recieved packet data is: %kS%$jR:#iQ9!hP8
Expected checksum: 187453
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 224119
Not corrupt, but bad sequence number, sending next boi
A sending packet with segnum 1 and checksum 249386 from the queue
A sending packet to B
A timed out. Sending packet with segnum 1, and checksum 249386 again
B gettin' a packet with seqnum 1, and checksum 249386
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   823113.1063, Layer 4 to 5 Message = & \ \wq&e XRLF?93-'~xrl
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: '2=IT'kv$x:FQ]hs~,7C
A sending packet with seqnum 0 and checksum 232274 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 232274
Packet Corrupt!
Recieved checksum: 232274, seqnum: 0, acknum: 0
```

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Recieved packet data is: '2=IT'kQ$x:Fv]hs~,7C
Expected checksum: 236159
Packet Corrupt!
Recieved checksum: 232274, seqnum: 0, acknum: 0
Recieved packet data is: '2=IT'kQ$x:Fv]hs~,7C
Expected checksum: 236159
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 4259840
Recieved packet data is: N
Expected checksum: -8519004
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 4259840
Recieved packet data is: N
Expected checksum: -8519004
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 232274 and data '2=IT'kvx:FQhs~,7C.
B gettin' a packet with seqnum 0, and checksum 232274
Packet Corrupt!
Recieved checksum: 232274, seqnum: 0, acknum: 0
Recieved packet data is: '2=sT'kv$x:FQ]hI~,7C
Expected checksum: 222194
Packet Corrupt!
Recieved checksum: 232274, seqnum: 0, acknum: 0
Recieved packet data is: '2=sT'kv$x:FQ]hI~,7C
Expected checksum: 222194
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 10036
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: N
Expected checksum: 10036
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 232274 and data '2=IT'kv$x:FQ]hs~,7C.
A timed out. Sending packet with seqnum 0, and checksum 232274 again
B gettin' a packet with seqnum 0, and checksum 232274
Packet Corrupt!
Recieved checksum: 232274, seqnum: 0, acknum: 0
Recieved packet data is: '~=IT'kv$x:FQ]hs2,7C
Expected checksum: 210614
Packet Corrupt!
Recieved checksum: 232274, seqnum: 0, acknum: 0
Recieved packet data is: '~=IT'kv$x:FQ]hs2,7C
Expected checksum: 210614
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 232274 and data '2=IT'kv$x:FQ]hs~,7C. corrupted from
A to B, resending
A: 824014.8210, Layer 5 to 4 Message = dW(V'U\&) %S$R2Q!P~O}N
```

```
A timed out. Sending packet with seqnum 0, and checksum 232274 again
B gettin' a packet with seqnum 0, and checksum 232274
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 824200.7131, Layer 4 to 5 Message = '2=IT'kv$x:FQ]hs~,7C
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: (Eb~=Z(6SpxLi(Eb~=Zw
A sending packet with segnum 1 and checksum 259174 from the queue
A sending packet to B
A: 824351.6232, Layer 5 to 4 Message = *jL.nP2r*6vX:z]>~aC%
A timed out. Sending packet with seqnum 1, and checksum 259174 again
A timed out. Sending packet with segnum 1, and checksum 259174 again
B gettin' a packet with seqnum 1, and checksum 259174
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   825240.0578, Layer 4 to 5 Message = (Eb~=Z(6SpxLi(Eb~=Zw
Setting comp segnum from 1 to 0
A: 825469.2663, Layer 5 to 4 Message = +fpdWK>2&+k RF3-~rfY
A timed out. Sending packet with segnum 1, and checksum 259174 again
A timed out. Sending packet with seqnum 1, and checksum 259174 again
B gettin' a packet with seqnum 1, and checksum 1879307366
Packet Corrupt!
Recieved checksum: 1879307366, segnum: 1, acknum: 0
Recieved packet data is: (Eb~=Z(6S
Expected checksum: 247974
Packet Corrupt!
Recieved checksum: 1879307366, segnum: 1, acknum: 0
Recieved packet data is: (Eb~=Z(6S
Expected checksum: 247974
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 259174
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dW(V'U&)%S$R2Q!P~O}N
A sending packet with segnum 0 and checksum 228655 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 228655 again
B gettin' a packet with seqnum 0, and checksum 228655
Packet Corrupt!
Recieved checksum: 228655, segnum: 0, acknum: 1644167168
Recieved packet data is:
Expected checksum: 1006861684
Packet Corrupt!
Recieved checksum: 228655, segnum: 0, acknum: 1644167168
Recieved packet data is:
Expected checksum: 1006861684
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
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Packet with checksum 228655 and data dW(V'U&)%S$R2Q!P~O}N. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 228655
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 826785.6802, Layer 4 to 5 Message = dW(V'U\&) %S$R2Q!P~O}N
Setting comp segnum from 0 to 1
A: 827262.7021, Layer 5 to 4 Message = ,16;AFKPUZ,ejoty~&+0
A timed out. Sending packet with segnum 0, and checksum 228655 again
B gettin' a packet with segnum 0, and checksum 228655
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 228655
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: *jL.nP2r*6vX:z]>~aC%
A sending packet with seqnum 1 and checksum 230280 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 230280
Packet Corrupt!
Recieved checksum: 230280, segnum: 1, acknum: 0
Recieved packet data is: *jLrnP2.*6vX:z]>~aC%
Expected checksum: 227016
Packet Corrupt!
Recieved checksum: 230280, seqnum: 1, acknum: 0
Recieved packet data is: *jLrnP2.*6vX:z]>~aC%
Expected checksum: 227016
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 230280 and data *jL.nP2r*6vX:z]>~aC%. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 230280
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 827343.1489, Layer 4 to 5 Message = *jL.nP2r*6vX:z]>~aC%
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1073
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 230280
Packet Corrupt!
Recieved checksum: 932, segnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1073
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 230280 and data *jL.nP2r*6vX:z]>~aC%.
A timed out. Sending packet with seqnum 1, and checksum 230280 again
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A timed out. Sending packet with seqnum 1, and checksum 230280 again

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B gettin' a packet with seqnum 1, and checksum 230280
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 230280
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: +fpdWK>2&+k RF3-~rfY
A sending packet with segnum 0 and checksum 244445 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 244445
Packet Corrupt!
Recieved checksum: 244445, seqnum: 0, acknum: 0
Recieved packet data is: +frdWK>2&+k RF3-~pfY
Expected checksum: 243815
Packet Corrupt!
Recieved checksum: 244445, segnum: 0, acknum: 0
Recieved packet data is: +frdWK>2&+k RF3-~pfY
Expected checksum: 243815
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 196776, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 936
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 196776, segnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 936
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 244445 and data +fpdWK>2&+k RF3-~rfY.
A timed out. Sending packet with seqnum 0, and checksum 244445 again
B gettin' a packet with seqnum 0, and checksum 244445
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 828899.7846, Layer 4 to 5 Message = +fpdWK>2&+k RF3-~rfY
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ,16;AFKPUZ,ejoty~&+0
A sending packet with seqnum 1 and checksum 230484 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 230484
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   828934.5650, Layer 4 to 5 Message = ,16; AFKPUZ, ejoty~&+0
Setting comp seqnum from 1 to 0
A: 829000.7361, Layer 5 to 4 Message = -DZq*AWn'=T-$:Qh~7Ne
A timed out. Sending packet with seqnum 1, and checksum 230484 again
A timed out. Sending packet with segnum 1, and checksum 230484 again
B gettin' a packet with seqnum 822083585, and checksum 230484
Packet Corrupt!
Recieved checksum: 230484, seqnum: 822083585, acknum: 0
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Recieved packet data is: ,
Expected checksum: -1828486256
Packet Corrupt!
Recieved checksum: 230484, segnum: 822083585, acknum: 0
Recieved packet data is: ,
Expected checksum: -1828486256
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 230484
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: -DZq*AWn'=T-$:Qh~7Ne
A sending packet with seqnum 0 and checksum 228547 from the queue
A sending packet to B
A: 830231.4311, Layer 5 to 4 Message = .V~Iq;d.V~Iq.d.V~Iq;
A timed out. Sending packet with seqnum 0, and checksum 228547 again
B gettin' a packet with seqnum 0, and checksum 228547
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 830473.6148, Layer 4 to 5 Message = -DZq*AWn'=T-$:Qh~7Ne
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: .V~Iq;d.V~Iq.d.V~Iq;
A sending packet with seqnum 1 and checksum 244281 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 244281
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 830503.8328, Layer 4 to 5 Message = .V~Iq;d.V~Iq.d.V~Iq;
Setting comp\_seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 244281 again
B gettin' a packet with seqnum 1, and checksum 228921
Packet Corrupt!
Recieved checksum: 228921, seqnum: 1, acknum: 0
Recieved packet data is: .V~Ig;d.V~Ig.d.V°Ig;
Expected checksum: 187637
Packet Corrupt!
Recieved checksum: 228921, seqnum: 1, acknum: 0
Recieved packet data is: .V~Iq;d.V~Iq.d.V°Iq;
Expected checksum: 187637
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 244281
Not corrupt, but bad sequence number, sending next boi
A: 831780.1199, Layer 5 to 4 Message = xiE \sim Z6pL (b=wSxiE \sim Z6p
A sending packet with segnum 0 and checksum 263907
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 263907 again
A timed out. Sending packet with seqnum 0, and checksum 263907 again
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B gettin' a packet with seqnum 0, and checksum 263907
Packet Corrupt!
Recieved checksum: 263907, segnum: 0, acknum: 0
Recieved packet data is: xiE~Z6pL(x=wSbiE~Z6p
Expected checksum: 261795
Packet Corrupt!
Recieved checksum: 263907, seqnum: 0, acknum: 0
Recieved packet data is: xiE~Z6pL(x=wSbiE~Z6p
Expected checksum: 261795
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 263907 again
B gettin' a packet with seqnum 0, and checksum 263907
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   833291.0456, Layer 4 to 5 Message = xiE~Z6pL(b=wSxiE~Z6p
Setting comp seqnum from 0 to 1
A: 833500.9650, Layer 5 to 4 Message = d\{iVD1|jWE2\}2X03\sim 1YG
A timed out. Sending packet with segnum 0, and checksum 263907 again
B gettin' a packet with seqnum 0, and checksum 263907
Packet Corrupt!
Recieved checksum: 263907, seqnum: 0, acknum: 7798784
Recieved packet data is: xiE~Z6pL(b=
Expected checksum: -15350797
Packet Corrupt!
Recieved checksum: 263907, seqnum: 0, acknum: 7798784
Recieved packet data is: xiE~Z6pL(b=
Expected checksum: -15350797
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 12093
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 263907
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 12093
A: no valid ACK, got instead with corruption. Resending packet with
checksum 263907 and data xiE~Z6pL(b=wSxiE~Z6p.
B gettin' a packet with seqnum 0, and checksum 263907
Packet Corrupt!
Recieved checksum: 263907, seqnum: 0, acknum: 0
Recieved packet data is: xiEiZ6pL(b=wSx~E~Z6p
Expected checksum: 268296
Packet Corrupt!
Recieved checksum: 263907, segnum: 0, acknum: 0
Recieved packet data is: xiEiZ6pL(b=wSx~E~Z6p
Expected checksum: 268296
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
```

ACK seq number and last transmitted seqnum don't match!

```
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 263907
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d{iVD1|jWE2}2X03~1YG
A sending packet with seqnum 1 and checksum 238649 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 238649
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 833865.0419, Layer 4 to 5 Message = d{iVD1|jWE2}2X03~1YG
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 834554.4152, Layer 5 to 4 Message = 10x.-,+*) ('&\$\$\$\$1\~\}|{
A sending packet with seqnum 0 and checksum 231602
A sending packet to B
A timed out. Sending packet with segnum 0, and checksum 231602 again
B gettin' a packet with seqnum 0, and checksum 231602
Packet Corrupt!
Recieved checksum: 231602, seqnum: 0, acknum: 0
Recieved packet data is: 10x(-,+*).'&%$#1~}|{
Expected checksum: 232106
Packet Corrupt!
Recieved checksum: 231602, seqnum: 0, acknum: 0
Recieved packet data is: 10x(-,+*).'&%$#1~}|{
Expected checksum: 232106
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 231602 and data 10x.-,+*) ('&\$\$\$1~\\| \{. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 231602
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 835089.5770, Layer 4 to 5 Message = 10x.-,+*) ('&\$\$\$1\^\| \{
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 836061.1710, Layer 5 to 4 Message = 2CSdt'7HXiy, <M^n21BR
A sending packet with segnum 1 and checksum 214297
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 214297
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   836069.1310, Layer 4 to 5 Message = 2CSdt'7HXiy, <M^n21BR
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 837980.1732, Layer 5 to 4 Message = 3Uw; ^{1}Df*Ln2Tv: ^{3}e)
A sending packet with segnum 0 and checksum 227220
A sending packet to B
B gettin' a packet with segnum 0, and checksum 227220
Expected packet compared and confirmed
```

```
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 838007.1140, Layer 4 to 5 Message = 3Uw;^!Df*Ln2Tv:]~3e)
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: A
Expected checksum: 27461
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: A
Expected checksum: 27461
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 227220 and data 3Uw; ^!Df*Ln2Tv:]~3e).
B gettin' a packet with seqnum 0, and checksum 227220
Packet Corrupt!
Recieved checksum: 227220, segnum: 0, acknum: 1711276032
Recieved packet data is: 3Uw; ^!D
Expected checksum: 872635924
Packet Corrupt!
Recieved checksum: 227220, seqnum: 0, acknum: 1711276032
Recieved packet data is: 3Uw; ^!D
Expected checksum: 872635924
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 227220
Not corrupt, but bad sequence number, sending next boi
A: 838553.4757, Layer 5 to 4 Message = 4f=qGzP&Yxc8lB3K~T4^
A sending packet with segnum 1 and checksum 236379
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 236379
Packet Corrupt!
Recieved checksum: 236379, seqnum: 1, acknum: 0
Recieved packet data is: 4flqGzP&Yxc8=B3K~T4^
Expected checksum: 228859
Packet Corrupt!
Recieved checksum: 236379, seqnum: 1, acknum: 0
Recieved packet data is: 4flqGzP&Yxc8=B3K~T4^
Expected checksum: 228859
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 961
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 236379
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 961
```

```
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 236379 and data 4f=qGzP&Yxc8lB3K~T4^.
B gettin' a packet with seqnum 1, and checksum 236379
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 838561.8629, Layer 4 to 5 Message = 4f=qGzP&Yxc8lB3K~T4^
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 838670.7948, Layer 5 to 4 Message = 5zbI0u]D+pW>&kR9~fM5
A sending packet with segnum 0 and checksum 229868
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 229868
Packet Corrupt!
Recieved checksum: 229868, seqnum: 0, acknum: 2818048
Recieved packet data is: 5zbI0u]D
Expected checksum: -5409711
Packet Corrupt!
Recieved checksum: 229868, seqnum: 0, acknum: 2818048
Recieved packet data is: 5zbI0u]D
Expected checksum: -5409711
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 4915200
Recieved packet data is: NA
Expected checksum: -9830139
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 4915200
Recieved packet data is: NA
Expected checksum: -9830139
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 229868 and data 5zbIOu]D+pW>&kR9~fM5.
A timed out. Sending packet with seqnum 0, and checksum 229868 again
B gettin' a packet with seqnum 0, and checksum 229868
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 839234.4450, Layer 4 to 5 Message = 5zbI0u]D+pW>&kR9~fM5
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 840096.0801, Layer 5 to 4 Message = 6x(\sim wpibZSLE=6x(\sim wpiDSLE=6x)
A sending packet with segnum 1 and checksum 271517
A sending packet to B
B gettin' a packet with seqnum -1660944383, and checksum 271360
Packet Corrupt!
Recieved checksum: 271360, segnum: -1660944383, acknum: 0
Recieved packet data is: 6x(~wpibZSLE=6x(~wpi
Expected checksum: -687594339
Packet Corrupt!
Recieved checksum: 271360, seqnum: -1660944383, acknum: 0
Recieved packet data is: 6x(~wpibZSLE=6x(~wpi
Expected checksum: -687594339
```

Packet corrupt

```
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 271517 and data 6x(~wpibZSLE=6x(~wpi. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 271517
Packet Corrupt!
Recieved checksum: 271517, segnum: 1, acknum: 0
Recieved packet data is: 6b(~wpixZSLE=6x(~wpi
Expected checksum: 272837
Packet Corrupt!
Recieved checksum: 271517, seqnum: 1, acknum: 0
Recieved packet data is: 6b(~wpixZSLE=6x(~wpi
Expected checksum: 272837
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1000
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 271517
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1000
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 271517 and data 6x(~wpibZSLE=6x(~wpi.
B gettin' a packet with segnum 1, and checksum 271517
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 840200.2242, Layer 4 to 5 Message = 6x(~wpibZSLE=6x(~wpi
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 840678.0875, Layer 5 to 4 Message = d7LVaku!, 6AK2 = +5?
A sending packet with segnum 0 and checksum 219545
A sending packet to B
B gettin' a packet with segnum 0, and checksum 219545
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   840699.3000, Layer 4 to 5 Message = d7LVaku!,6AK2`jt~+5?
B:
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 842078.2578, Layer 5 to 4 Message = 8T8.Jf$?[w5Qm+Gc~<Xt
A sending packet with seqnum 1 and checksum 252414
A sending packet to B
A: 842276.1687, Layer 5 to 4 Message = 99693a0^-Z*W'T$Q~N{K}
A timed out. Sending packet with segnum 1, and checksum 252414 again
B gettin' a packet with segnum 1, and checksum 252414
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
```

```
B sending message up to layer 5 and updating newest recieved data
B: 842586.9877, Layer 4 to 5 Message = 8T8.Jf$?[w5Qm+Gc~<Xt
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: 9g693a0^-Z*W'T$Q~N{K
A sending packet with segnum 0 and checksum 233160 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 233160
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 842611.6590, Layer 4 to 5 Message = 99693a0^-Z*W'T$Q~N{K}
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 16777216, acknum: 0
Recieved packet data is: ACK
Expected checksum: 50332579
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 16777216. last transmitted seqnum: 0
Last sent packet Checksum: 233160
Packet Corrupt!
Recieved checksum: 929, seqnum: 16777216, acknum: 0
Recieved packet data is: ACK
Expected checksum: 50332579
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 233160 and data 9g693a0^-Z*W'T$Q~N\{K.
A timed out. Sending packet with seqnum 0, and checksum 233160 again
A timed out. Sending packet with segnum 0, and checksum 233160 again
A: 843751.4701, Layer 5 to 4 Message = :yZ;:[\{\} = |^>\} ?~`A!
A timed out. Sending packet with seqnum 0, and checksum \overline{2}33160 again
B gettin' a packet with segnum 0, and checksum 233160
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 233160
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: :yZ;:[<{]=|^>} ?~`A!
A sending packet with segnum 1 and checksum 236597 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 212789
Packet Corrupt!
Recieved checksum: 212789, seqnum: 1, acknum: 0
Recieved packet data is: :yZ;:[<{]=|^>} c^A!
Expected checksum: 194869
Packet Corrupt!
Recieved checksum: 212789, segnum: 1, acknum: 0
Recieved packet data is: yZ;: [<{]=|^>} e^A!
Expected checksum: 194869
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
```

```
Packet with checksum 236597 and data :yZ;:[<{]=|^>} ?~`A!. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 236597
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 844176.8383, Layer 4 to 5 Message = :yZ;:[\{ \} = |^{>} \} ?~ `A!
Setting comp segnum from 1 to 0
A: 844462.4749, Layer 5 to 4 Message = ;.~qd;I;.~qdVI;.~qdV
A timed out. Sending packet with seqnum 1, and checksum 236597 again
A timed out. Sending packet with seqnum 1, and checksum 236597 again
B gettin' a packet with seqnum 1, and checksum 236597
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NKA
Expected checksum: 886
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 236597
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NKA
Expected checksum: 886
A: no valid ACK, got NKA instead with corruption. Resending packet with
checksum 236597 and data :yZ;:[<{]=|^>} ?^A!.
B gettin' a packet with seqnum 1, and checksum 236597
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 236597
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ;.~qd;I;.~qdVI;.~qdV
A sending packet with seqnum 0 and checksum 256903 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 4844423
Packet Corrupt!
Recieved checksum: 4844423, seqnum: 0, acknum: 0
Recieved packet data is: ;.~qd;I;.~qdV ;.~qdV
Expected checksum: 243183
Packet Corrupt!
Recieved checksum: 4844423, seqnum: 0, acknum: 0
Recieved packet data is: ;.~qd;I;.~qdV ;.~qdV
Expected checksum: 243183
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 256903 and data ;.~qd;I;.~qdVI;.~qdV. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 256903
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
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B: 845251.3025, Layer 4 to 5 Message = ;.~qd;I;.~qdVI;.~qdV
Setting comp seqnum from 0 to 1
A timed out. Sending packet with segnum 0, and checksum 256903 again
A: 846039.3530, Layer 5 to 4 Message = \langle AEIMQ \langle Y^bfjnrvz \sim % \rangle -
A timed out. Sending packet with seqnum 0, and checksum 256903 again
B gettin' a packet with seqnum 0, and checksum 256903
Packet Corrupt!
Recieved checksum: 256903, segnum: 0, acknum: 0
Recieved packet data is: ;.~qddI;.~qdVI;.~q;V
Expected checksum: 243578
Packet Corrupt!
Recieved checksum: 256903, seqnum: 0, acknum: 0
Recieved packet data is: ;.~qddI;.~qdVI;.~q;V
Expected checksum: 243578
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 256903
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: <AEIMQ<Y^bfjnrvz~%) -
A sending packet with segnum 1 and checksum 240451 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 240451
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 846284.2980, Layer 4 to 5 Message = <AEIMQ<Y^bfjnrvz~%)-
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 847262.2285, Layer 5 to 4 Message = =fi^6Lb=xEZp (=3i^6Lb
A sending packet with segnum 0 and checksum 237400
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 237400
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 847280.9128, Layer 4 to 5 Message = = fi \sim 6Lb = xEZp (= 3i \sim 6Lb)
Setting comp segnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 237400 again
B gettin' a packet with seqnum 0, and checksum 237400
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 237400
Not corrupt, but bad sequence number, sending next boi
A: 849092.1570, Layer 5 to 4 Message = dfxV{Gn7>(Ov2g0W~Ho8
A sending packet with seqnum 1 and checksum 236977
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 236977 again
A timed out. Sending packet with segnum 1, and checksum 236977 again
B gettin' a packet with segnum 1, and checksum 236977
Expected packet compared and confirmed
```

```
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 850114.3463, Layer 4 to 5 Message = dfxVGn7>(Ov2g0W~Ho8
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 851048.1538, Layer 5 to 4 Message = ?xS.gBzU0?D|W2kF~Y4m
A sending packet with segnum 0 and checksum 248710
A sending packet to B
B gettin' a packet with segnum 0, and checksum 248710
Packet Corrupt!
Recieved checksum: 248710, seqnum: 0, acknum: 0
Recieved packet data is: ?xg.SBzU0?D|W2kF~Y4m
Expected checksum: 248390
Packet Corrupt!
Recieved checksum: 248710, seqnum: 0, acknum: 0
Recieved packet data is: ?xg.SBzU0?D|W2kF~Y4m
Expected checksum: 248390
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 248710 again
A timed out. Sending packet with seqnum 0, and checksum 248710 again
   852296.6264, Layer 5 to 4 Message = A-wdP<)s`LA%o[H4~kWD
   852469.5700, Layer 5 to 4 Message = B?=; 97531x-B) '%#~|zx
A timed out. Sending packet with seqnum 0, and checksum 248710 again
A timed out. Sending packet with seqnum 0, and checksum 248710 again
A: 853133.3529, Layer 5 to 4 Message = CRbq#2BQap!1CP`o~0?0
A timed out. Sending packet with seqnum 0, and checksum 248710 again
B gettin' a packet with seqnum 0, and checksum 248710
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   853569.4397, Layer 4 to 5 Message = ?xS.gBzU0?D|W2kF~Y4m
Setting comp segnum from 0 to 1
A: 854032.1832, Layer 5 to 4 Message = De(Ij-No2St7XD<^~Bc&
A timed out. Sending packet with seqnum 0, and checksum 248710 again
B gettin' a packet with seqnum 0, and checksum 248710
Packet Corrupt!
Recieved checksum: 248710, seqnum: 0, acknum: 0
Recieved packet data is: ?xS.gBzU0mD|W2kF~Y4?
Expected checksum: 234910
Packet Corrupt!
Recieved checksum: 248710, seqnum: 0, acknum: 0
Recieved packet data is: ?xS.gBzU0mD|W2kF~Y4?
Expected checksum: 234910
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 248710 again
B gettin' a packet with seqnum 0, and checksum 248710
Packet Corrupt!
Recieved checksum: 248710, seqnum: 0, acknum: 2013265920
Recieved packet data is: ?
Expected checksum: 268683686
Packet Corrupt!
Recieved checksum: 248710, seqnum: 0, acknum: 2013265920
Recieved packet data is: ?
Expected checksum: 268683686
Packet corrupt
Sending bACK a NAK!
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A: 854807.1742, Layer 5 to 4 Message = EwL~S(Zxb6i=pEEL~S(Z
A timed out. Sending packet with seqnum 0, and checksum 248710 again
B gettin' a packet with seqnum 0, and checksum 248710
Packet Corrupt!
Recieved checksum: 248710, seqnum: 0, acknum: 0
Recieved packet data is: ?xS.gB4U0?D|W2kF~Yzm
Expected checksum: 270550
Packet Corrupt!
Recieved checksum: 248710, segnum: 0, acknum: 0
Recieved packet data is: ?xS.gB4U0?D|W2kF~Yzm
Expected checksum: 270550
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 248710
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: A-wdP<)s`LA%o[H4~kWD
A sending packet with segnum 1 and checksum 240736 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 240736
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 855098.2052, Layer 4 to 5 Message = A-wdP<)s`LA%o[H4~kWD
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, segnum: 1, acknum: 16641
Recieved packet data is:
Expected checksum: -32413
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 16641
Recieved packet data is:
Expected checksum: -32413
A: no valid ACK, got instead with corruption. Resending packet with
checksum 240736 and data A-wdP<)s`LA%o[H4~kWD.
A timed out. Sending packet with segnum 1, and checksum 240736 again
B gettin' a packet with segnum 1, and checksum 7842912
Packet Corrupt!
Recieved checksum: 7842912, segnum: 1, acknum: 0
Recieved packet data is: A- dP<)s`LA%o[H4~kWD
Expected checksum: 239692
Packet Corrupt!
Recieved checksum: 7842912, seqnum: 1, acknum: 0
Recieved packet data is: A- dP<)s`LA%o[H4~kWD
Expected checksum: 239692
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 240736
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: B?=;97531x-B)'%#~|zx
A sending packet with segnum 0 and checksum 242408 from the queue
```

```
A sending packet to B
A: 856012.9684, Layer 5 to 4 Message = d,pV<\#gM3w^D2nTF\sim eK1
A timed out. Sending packet with segnum 0, and checksum 242408 again
B gettin' a packet with seqnum 0, and checksum 242408
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 856147.8162, Layer 4 to 5 Message = B?=; 97531x-B)'%#~|zx
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: -20446
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: -20446
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 242408 and data B?=;97531x-B)'%\#\sim|zx.
B gettin' a packet with segnum 0, and checksum 242408
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 242408
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: CRbq#2BQap!1CP`o~0?0
A sending packet with segnum 1 and checksum 227538 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 227538
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 856176.3957, Layer 4 to 5 Message = CRbq\#2BQap!1CP`o~0?0
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: De(Ij-No2St7XD<^~Bc&
A sending packet with segnum 0 and checksum 225926 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 225926
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   856193.1993, Layer 4 to 5 Message = De(Ij-No2St7XD<^~Bc&
Setting comp seqnum from 0 to 1
A: 856196.1485, Layer 5 to 4 Message = Gf6.&(skcZRJB93)Gvnf
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: EwL~S(Zxb6i=pEEL~S(Z
A sending packet with segnum 1 and checksum 234782 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 234782
Packet Corrupt!
```

```
Recieved checksum: 234782, seqnum: 1, acknum: 23040
Recieved packet data is: EwL~S(
Expected checksum: 184292
Packet Corrupt!
Recieved checksum: 234782, seqnum: 1, acknum: 23040
Recieved packet data is: EwL~S(
Expected checksum: 184292
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 19201, acknum: 0
Recieved packet data is: NA
Expected checksum: 57864
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 19201. last transmitted seqnum: 1
Last sent packet Checksum: 2\overline{3}4782
Packet Corrupt!
Recieved checksum: 939, seqnum: 19201, acknum: 0
Recieved packet data is: NA
Expected checksum: 57864
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 234782 and data EwL~S(Zxb6i=pEEL~S(Z.
B gettin' a packet with seqnum 1, and checksum 234782
Packet Corrupt!
Recieved checksum: 234782, seqnum: 1, acknum: 0
Recieved packet data is: EwL~S(Zxb6i=pEEL~SZ(
Expected checksum: 232832
Packet Corrupt!
Recieved checksum: 234782, segnum: 1, acknum: 0
Recieved packet data is: EwL~S(Zxb6i=pEEL~SZ(
Expected checksum: 232832
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 234782 and data EwL~S(Zxb6i=pEEL~S(Z. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 234782
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 856280.0165, Layer 4 to 5 Message = EwL~S(Zxb6i=pEEL~S(Z
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: -10200
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, segnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: -10200
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 234782 and data EwL~S(Zxb6i=pEEL~S(Z.
B gettin' a packet with segnum 1, and checksum 234782
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
```

```
A: 856447.1555, Layer 5 to 4 Message = HQZdmv!+4=GPYclu\sim H3<
A timed out. Sending packet with seqnum 1, and checksum 234782 again
B gettin' a packet with seqnum 69, and checksum 234782
Packet Corrupt!
Recieved checksum: 234782, seqnum: 69, acknum: 0
Recieved packet data is: EwL~S(Zxb6i=pE L~S(Z
Expected checksum: 219686
Packet Corrupt!
Recieved checksum: 234782, segnum: 69, acknum: 0
Recieved packet data is: EwL~S(Zxb6i=pE L~S(Z
Expected checksum: 219686
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 234782
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d,pV<#qM3w^D2nTF~eK1
A sending packet with segnum 0 and checksum 235158 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 235158
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 856808.1593, Layer 4 to 5 Message = d,pV<#gM3w^D2nTF~eK1
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Gf6.&{skcZRJB93)Gvnf
A sending packet with segnum 1 and checksum 240643 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 240643 again
B gettin' a packet with segnum 3, and checksum 109571
Packet Corrupt!
Recieved checksum: 109571, seqnum: 3, acknum: 0
Recieved packet data is: Gf6.&{skcZRJB93}Gvnf
Expected checksum: 240649
Packet Corrupt!
Recieved checksum: 109571, segnum: 3, acknum: 0
Recieved packet data is: Gf6.&{skcZRJB93)Gvnf
Expected checksum: 240649
Packet corrupt
Sending bACK a NAK!
A: 857650.4086, Layer 5 to 4 Message = Id~; Vq.Id~; Vq.Id~; Iq
A: 857736.8085, Layer 5 to 4 Message = JvEq?1:g5b0]+W&R\sim MyJ
A timed out. Sending packet with seqnum 1, and checksum 240643 again
B gettin' a packet with segnum 1, and checksum 240643
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   857820.1414, Layer 4 to 5 Message = Gf6.&{skcZRJB93)Gvnf
Setting comp segnum from 1 to 0
A: 857859.9\overline{0}93, Layer 5 to 4 Message = K+iI)gG'eE%cC#aA~ >|
A timed out. Sending packet with segnum 1, and checksum 240643 again
A timed out. Sending packet with segnum 1, and checksum 240643 again
B gettin' a packet with seqnum 1, and checksum 240643
incorrect seqnum
```

```
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 240643
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: HQZdmv!+4=GPYclu~H3<
A sending packet with segnum 0 and checksum 235344 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 235344
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 858840.2087, Layer 4 to 5 Message = HQZdmv!+4=GPYclu~H3<
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, segnum: 16777216, acknum: 0
Recieved packet data is: ACK
Expected checksum: 50332579
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 16777216. last transmitted segnum: 0
Last sent packet Checksum: 235344
Packet Corrupt!
Recieved checksum: 929, seqnum: 16777216, acknum: 0
Recieved packet data is: ACK
Expected checksum: 50332579
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 235344 and data HQZdmv!+4=GPYclu~H3<.
B gettin' a packet with segnum 0, and checksum 235344
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 235344 again
B gettin' a packet with seqnum 0, and checksum 235344
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
A: 859448.0855, Layer 5 to 4 Message = LLx~pbSE6(wiZL=x~pbS
A timed out. Sending packet with seqnum 0, and checksum 235344 again
A timed out. Sending packet with seqnum 0, and checksum 235344 again
B gettin' a packet with segnum 0, and checksum 235344
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 235344
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Id~; Vq.Id~; Vq.Id~; Iq
A sending packet with segnum 1 and checksum 253065 from the queue
A sending packet to B
A: 860687.3463, Layer 5 to 4 Message = dPMVY] cfilo2ux{~$'*}
A timed out. Sending packet with seqnum 1, and checksum 253065 again
B gettin' a packet with segnum 1, and checksum 253065
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 860867.0909, Layer 4 to 5 Message = Id~; Vq.Id~; Vq.Id~; Iq
```

```
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, segnum: 1, acknum: 67
Recieved packet data is: A K
Expected checksum: 536
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 67
Recieved packet data is: A K
Expected checksum: 536
A: no valid ACK, got A K instead with corruption. Resending packet with
checksum 253065 and data Id~; Vq.Id~; Vq.Id~; Iq.
A timed out. Sending packet with seqnum 1, and checksum 253065 again
B gettin' a packet with seqnum 126, and checksum 253065
Packet Corrupt!
Recieved checksum: 253065, seqnum: 126, acknum: 0
Recieved packet data is: Id~; Vq.Id~; Vq.Id ; Iq
Expected checksum: 217315
Packet Corrupt!
Recieved checksum: 253065, seqnum: 126, acknum: 0
Recieved packet data is: Id~; Vq.Id~; Vq.Id ; Iq
Expected checksum: 217315
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 253065
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: JvEq?l:q5b0]+W&R~MyJ
A sending packet with segnum 0 and checksum 239592 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 239592 again
B gettin' a packet with segnum 0, and checksum 239592
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 861935.8612, Layer 4 to 5 Message = JvEq?l:g5b0]+W&R~MyJ
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: K+iI)gG'eE%cC#aA~ >|
A sending packet with seqnum 1 and checksum 242632 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 242632
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   861976.4397, Layer 4 to 5 Message = K+iI)gG'eE%cC#aA~ >|
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: LLx~pbSE6(wiZL=x~pbS
A sending packet with segnum 0 and checksum 271934 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 271872
```

```
Packet Corrupt!
Recieved checksum: 271872, seqnum: 0, acknum: 4063232
Recieved packet data is: LLx~pbSE6(wiZL=x~pbS
Expected checksum: -7854530
Packet Corrupt!
Recieved checksum: 271872, seqnum: 0, acknum: 4063232
Recieved packet data is: LLx~pbSE6(wiZL=x~pbS
Expected checksum: -7854530
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 271934 and data LLx~pbSE6(wiZL=x~pbS. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 271934
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 862027.5419, Layer 4 to 5 Message = LLx~pbSE6(wiZL=x~pbS
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dPMVY] `cfilo2ux{~$'*
A sending packet with seqnum 1 and checksum 235669 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 235669
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 862032.4968, Layer 4 to 5 Message = dPMVY] `cfilo2ux{~$'*}
Setting comp segnum from 1 to 0
A: 862079.1210, Layer 5 to 4 Message = NcwNCWl#7Lau,AUj~5J
A timed out. Sending packet with seqnum 1, and checksum 235669 again
B gettin' a packet with segnum 1, and checksum 235669
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A: 862764.2883, Layer 5 to 4 Message = Ou=dORxAgxU{Dj2X~Gm5}
A timed out. Sending packet with seqnum 1, and checksum 235669 again
B gettin' a packet with seqnum 1, and checksum 235669
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 235669
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: NcwNCWl#7Lau, AUj~5J
A sending packet with segnum 0 and checksum 240432 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 240432
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 863081.6328, Layer 4 to 5 Message = NcwNCWl#7Lau, AUj~5J
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
```

```
Data being dequeued: Ou=dORxAgxU{Dj2X~Gm5
A sending packet with seqnum 1 and checksum 251942 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 251942
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 863099.3667, Layer 4 to 5 Message = Ou=dORxAgxU{Dj2X~Gm5
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 864104.0148, Layer 5 to 4 Message = Pfb;sP'_8pJ$[53G~X2j
A sending packet with segnum 0 and checksum 226651
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 226640
Packet Corrupt!
Recieved checksum: 226640, seqnum: 0, acknum: 0
Recieved packet data is: Pfb;s[' 8pJ$[53G~X2j
Expected checksum: 227047
Packet Corrupt!
Recieved checksum: 226640, seqnum: 0, acknum: 0
Recieved packet data is: Pfb;s['_8pJ$[53G~X2j
Expected checksum: 227047
Packet corrupt
Sending bACK a NAK!
A: 864166.9635, Layer 5 to 4 Message = Q<(q]HQ|hS>*s J5~jUA
A timed out. Sending packet with seqnum 0, and checksum 226651 again
B gettin' a packet with seqnum 1342177280, and checksum 226651
Packet Corrupt!
Recieved checksum: 226651, segnum: 1342177280, acknum: 0
Recieved packet data is: Pfb;s
Expected checksum: -268211685
Packet Corrupt!
Recieved checksum: 226651, seqnum: 1342177280, acknum: 0
Recieved packet data is: Pfb;s
Expected checksum: -268211685
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 5111808
Recieved packet data is:
Expected checksum: -10222758
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 5111808
Recieved packet data is:
Expected checksum: -10222758
A: no valid ACK, got instead with corruption. Resending packet with
checksum 226651 and data Pfb;sP' 8pJ$[53G~X2j.
B gettin' a packet with seqnum 0, and checksum 226651
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 864624.7905, Layer 4 to 5 Message = Pfb;sP' 8pJ$[53G~X2j
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
```

```
Data being dequeued: Q<(q]HQ|hS>*s J5~jUA
A sending packet with seqnum 1 and checksum 245227 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 245227
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 864659.5929, Layer 4 to 5 Message = Q<(q]HQ|hS>*s J5~jUA
Setting comp seqnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 245227 again
B gettin' a packet with segnum 1, and checksum 245227
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 245227
Not corrupt, but bad sequence number, sending next boi
A: 865174.1189, Layer 5 to 4 Message = ROLIFC?R9630-*'$~{xu}
A sending packet with segnum 0 and checksum 237984
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 237984
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 865178.0385, Layer 4 to 5 Message = ROLIFC?R9630-*'$~{xu}
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 237984 again
B gettin' a packet with seqnum 0, and checksum 237984
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
   865688.4723, Layer 5 to 4 Message = Sbp~x=LZSw(6ESbp~x=L
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 237984
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Sbp~x=LZSw(6ESbp~x=L
A sending packet with segnum 1 and checksum 255710 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 255710
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 865710.1574, Layer 4 to 5 Message = Sbp~x=LZSw(6ESbp~x=L
Setting comp seqnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 255710 again
B gettin' a packet with seqnum 8257537, and checksum 255710
Packet Corrupt!
Recieved checksum: 255710, seqnum: 8257537, acknum: 0
Recieved packet data is: Sbp
Expected checksum: 25026302
Packet Corrupt!
Recieved checksum: 255710, seqnum: 8257537, acknum: 0
Recieved packet data is: Sbp
Expected checksum: 25026302
Packet corrupt
Sending bACK a NAK!
```

```
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 255710
Not corrupt, but bad sequence number, sending next boi
A: 867191.7648, Layer 5 to 4 Message = dt6Vv8Xx:Tz<2|> ~Aa#
A sending packet with segnum 0 and checksum 233322
A sending packet to B
A timed out. Sending packet with segnum 0, and checksum 233322 again
B gettin' a packet with segnum 0, and checksum 233322
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 867713.5539, Layer 4 to 5 Message = dt6Vv8Xx:Tz<2|> ~Aa#
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 233322 again
B gettin' a packet with seqnum 0, and checksum 233338
Packet Corrupt!
Recieved checksum: 233338, segnum: 0, acknum: 0
Recieved packet data is: bt6Vv8Xx:Tj<3|> ~Aa#
Expected checksum: 231553
Packet Corrupt!
Recieved checksum: 233338, segnum: 0, acknum: 0
Recieved packet data is: bt6Vv8Xx:Tj<3|> ~Aa#
Expected checksum: 231553
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 233322
Not corrupt, but bad sequence number, sending next boi
A: 868365.9413, Layer 5 to 4 Message = U)Z.~3e8j=UCtHyM~R&W
A sending packet with segnum 1 and checksum 241262
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 241262
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 868368.8829, Layer 4 to 5 Message = U)Z.`3e8j=UCtHyM~R&W
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 869344.1511, Layer 5 to 4 Message = V; \sim dI.qV; \sim dV.qV; \sim dI.
A sending packet with seqnum 0 and checksum 237307
A sending packet to B
B gettin' a packet with segnum 0, and checksum 237307
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   869362.9043, Layer 4 to 5 Message = V;~dI.qV;~dV.qV;~dI.
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
A: 871271.2441, Layer 5 to 4 Message = WNE;2)}tkbXOW<3*~ulc
A sending packet with segnum 1 and checksum 260256
```

```
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 260256 again
A timed out. Sending packet with segnum 1, and checksum 260256 again
B gettin' a packet with seqnum 1, and checksum 260256
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 872297.9823, Layer 4 to 5 Message = WNE; 2) }tkbXOW<3*~ulc
Setting comp segnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 260256 again
B gettin' a packet with segnum 1, and checksum 260256
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A: 873107.0359, Layer 5 to 4 Message = Xaiqy$,4<EMU^Xnv~)19
A timed out. Sending packet with seqnum 1, and checksum 260256 again
B gettin' a packet with seqnum 1, and checksum 260256
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 260256 again
A timed out. Sending packet with segnum 1, and checksum 260256 again
B gettin' a packet with seqnum 1, and checksum 260256
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 260256
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Xaiqy$,4<EMU^Xnv~)19
A sending packet with segnum 0 and checksum 224553 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 224553
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 874331.5414, Layer 4 to 5 Message = Xaiqy$,4<EMU^Xnv~)19
Setting comp_seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 224553 again
B gettin' a packet with seqnum 0, and checksum 224553
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 224553
Not corrupt, but bad sequence number, sending next boi
A: 874945.1571, Layer 5 to 4 Message = YfxIc|8Rl(B[u1Ye~:Tn
A sending packet with segnum 1 and checksum 256228
A sending packet to B
B gettin' a packet with segnum 1, and checksum 256228
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 874946.5041, Layer 4 to 5 Message = YfxIc|8R1(B[u1Ye~:Tn
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
```

```
A: 876851.3854, Layer 5 to 4 Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE)
A sending packet with seqnum 0 and checksum 257313
A sending packet to B
A: 876955.6459, Layer 5 to 4 Message = d:wV5rQ0mL+h2&cB[^<y
A timed out. Sending packet with seqnum 0, and checksum 257313 again
B gettin' a packet with seqnum 0, and checksum 257313
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 877362.1021, Layer 4 to 5 Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE)
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 50331809, segnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 929
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 50331809, segnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 929
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 257313 and data Z(S~LwEp=i6bxZ(Z~LwE.
B gettin' a packet with segnum 0, and checksum 257313
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
A: 877443.9356, Layer 5 to 4 Message = ]M=.|m^N>x}n O?0~]`P
A timed out. Sending packet with seqnum 0, and checksum 257313 again
A: 877900.8897, Layer 5 to 4 Message = ^`bdfhjlnprtvxz|~\#^' A: 878189.4379, Layer 5 to 4 Message = _r(;Ocv,?Sgz0DWk~4H_
A timed out. Sending packet with seqnum 0, and checksum 257313 again
B gettin' a packet with segnum 0, and checksum 257313
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 257313
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d:wV5rQ0mL+h2&cB[^<y
A sending packet with segnum 1 and checksum 233667 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 233667
Packet Corrupt!
Recieved checksum: 233667, seqnum: 1, acknum: 0
Recieved packet data is: b:wV5rQ0mL+h3&<B[^cy</pre>
Expected checksum: 239138
Packet Corrupt!
Recieved checksum: 233667, seqnum: 1, acknum: 0
Recieved packet data is: b:wV5rQ0mL+h3&<B[^cy</pre>
Expected checksum: 239138
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 233667 and data d:wV5rQ0mL+h2&cB[^<y. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 233667
Expected packet compared and confirmed
```

```
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 878435.0751, Layer 4 to 5 Message = d:wV5rQ0mL+h2&cB[^<y]
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: [M=.|m^N>x}n O?0~]`P
A sending packet with segnum 0 and checksum 257422 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 257422 again
B gettin' a packet with seqnum 0, and checksum 257422
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 878961.5955, Layer 4 to 5 Message = ]M=.|m^N>x\}n O?0~]P
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 257422 again
A: 879818.9815, Layer 5 to 4 Message = \Lq8^{\gray w}106[#Hm4Y~Fk2
A timed out. Sending packet with segnum 0, and checksum 257422 again
B gettin' a packet with seqnum 0, and checksum 257422
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 19968
Recieved packet data is:
Expected checksum: -39075
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 257422
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 19968
Recieved packet data is:
Expected checksum: -39075
A: no valid ACK, got instead with corruption. Resending packet with
checksum 257422 and data ]M=.|m^N>x}n_0?0~]`P.
A timed out. Sending packet with seqnum 0, and checksum 257422 again
B gettin' a packet with seqnum 0, and checksum 257422
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
A: 880833.7948, Layer 5 to 4 Message = aapI!X1hAwP)`8oH~W0g
A timed out. Sending packet with seqnum 0, and checksum 257422 again
B gettin' a packet with seqnum 0, and checksum 216462
Packet Corrupt!
Recieved checksum: 216462, seqnum: 0, acknum: 0
Recieved packet data is: ]i=.|m^N>x}n O?0~]`P
Expected checksum: 257038
Packet Corrupt!
Recieved checksum: 216462, seqnum: 0, acknum: 0
Recieved packet data is: [i=.|m^N>x]n O?0~]`P
Expected checksum: 257038
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 257422 again
   881868.6646, Layer 5 to 4 Message = bLb~iS=(pZExwbL6~iS=
A timed out. Sending packet with segnum 0, and checksum 257422 again
B gettin' a packet with seqnum 0, and checksum 257422
incorrect seqnum
```

```
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 257422
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ^`bdfhjlnprtvxz|~#^'
A sending packet with segnum 1 and checksum 271838 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 271838
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 881977.8045, Layer 4 to 5 Message = ^`bdfhjlnprtvxz|~#^'
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: r(;Ocv,?Sgz0DWk~4H
A sending packet with segnum 0 and checksum 245010 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 245010 again
B gettin' a packet with segnum 0, and checksum 245010
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 882528.8958, Layer 4 to 5 Message = r(;Ocv,?SgzODWk~4H
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, segnum: 0, acknum: 19201
Recieved packet data is: AC
Expected checksum: -38146
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 19201
Recieved packet data is: AC
Expected checksum: -38146
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 245010 and data r(;Ocv,?Sgz0DWk~4H .
B gettin' a packet with segnum 0, and checksum 245010
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 245010
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: `'Lq8^%Jo6[#Hm4Y~Fk2
A sending packet with seqnum 1 and checksum 230182 from the queue
A sending packet to B
A: 882990.8955, Layer 5 to 4 Message = dfZcRNJFB=952-3%~zvr
A timed out. Sending packet with seqnum 1, and checksum 230182 again
B gettin' a packet with seqnum 1, and checksum 230182
Packet Corrupt!
Recieved checksum: 230182, seqnum: 1, acknum: 0
Recieved packet data is: `'Lq8^%Jo6Y#Hm4[~Fk2
Expected checksum: 230452
```

```
Packet Corrupt!
Recieved checksum: 230182, seqnum: 1, acknum: 0 Recieved packet data is: `'Lq8^%Jo6Y#Hm4[~Fk2
Expected checksum: 230452
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 230182 again
A timed out. Sending packet with segnum 1, and checksum 230182 again
A: 884314.5510, Layer 5 to 4 Message = dq~.dIVdq~.;IVdq~.;I
A timed out. Sending packet with segnum 1, and checksum 230182 again
B gettin' a packet with segnum 1, and checksum 230182
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   884587.0490, Layer 4 to 5 Message = `'Lq8^%Jo6[#Hm4Y~Fk2
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: aapI!X1hAwP) `8oH~W0g
A sending packet with segnum 0 and checksum 242120 from the queue
A sending packet to B
B gettin' a packet with seqnum 112, and checksum 242120
Packet Corrupt!
Recieved checksum: 242120, segnum: 112, acknum: 0
Recieved packet data is: aa
Expected checksum: 241448
Packet Corrupt!
Recieved checksum: 242120, seqnum: 112, acknum: 0
Recieved packet data is: aa
Expected checksum: 241448
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 242120 and data aapI!X1hAwP)`80H~W0g. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 242120
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 884631.5114, Layer 4 to 5 Message = aapI!X1hAwP) `80H~W0q
Setting comp segnum from 0 to 1
A: 884778.0146, Layer 5 to 4 Message = e&Ed%ec$Cb#Ba!A`~? }
A timed out. Sending packet with segnum 0, and checksum 242120 again
B gettin' a packet with seqnum 0, and checksum 242120
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 21939
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 242120
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: NA
```

```
Expected checksum: 21939
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 242120 and data aapI!X1hAwP) `80H~W0g.
B gettin' a packet with seqnum 0, and checksum 242120
Packet Corrupt!
Recieved checksum: 242120, seqnum: 0, acknum: 0
Recieved packet data is: aapI!X1hAwg) `8oH~WOP
Expected checksum: 235703
Packet Corrupt!
Recieved checksum: 242120, segnum: 0, acknum: 0
Recieved packet data is: aapI!X1hAwg)`80H~W0P
Expected checksum: 235703
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 242120
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: bLb~iS=(pZExwbL6~iS=
A sending packet with segnum 1 and checksum 253129 from the queue
A sending packet to B
A: 885547.3017, Layer 5 to 4 Message = f8i;1>fBrEuHxK{N~Q$T
A timed out. Sending packet with segnum 1, and checksum 253129 again
B gettin' a packet with segnum 1, and checksum 253129
Packet Corrupt!
Recieved checksum: 253129, seqnum: 1, acknum: 0
Recieved packet data is: bLb~(S=ipZExwbL6~iS=
Expected checksum: 255664
Packet Corrupt!
Recieved checksum: 253129, segnum: 1, acknum: 0
Recieved packet data is: bLb~(S=ipZExwbL6~iS=
Expected checksum: 255664
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 253129 and data bLb~iS=(pZExwbL6~iS=. corrupted from
A to B, resending
A: 885987.0905, Layer 5 to 4 Message = gKxqU9\{gD(jN2tX<\sim cG+
A timed out. Sending packet with segnum 1, and checksum 253129 again
A timed out. Sending packet with seqnum 1, and checksum 253129 again
A: 886734.5208, Layer 5 to 4 Message = h^SI>4*hi TJ?5+~tj
A timed out. Sending packet with seqnum 1, and checksum 253129 again
A timed out. Sending packet with seqnum 1, and checksum 253129 again
A: 888138.9711, Layer 5 to 4 Message = ipw~(x6=EiSZbipw~(x6
A timed out. Sending packet with seqnum 1, and checksum 253129 again
B gettin' a packet with seqnum 1, and checksum 253129
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 888193.3027, Layer 4 to 5 Message = bLb~iS=(pZExwbL6~iS=
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dfZcRNJFB=952-3%~zvr
A sending packet with segnum 0 and checksum 244121 from the queue
A sending packet to B
```

```
B gettin' a packet with seqnum 0, and checksum 755218841
Packet Corrupt!
Recieved checksum: 755218841, segnum: 0, acknum: 0
Recieved packet data is: bfZcRNJFB=953
Expected checksum: 235468
Packet Corrupt!
Recieved checksum: 755218841, seqnum: 0, acknum: 0
Recieved packet data is: bfZcRNJFB=953
Expected checksum: 235468
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 244121 and data dfZcRNJFB=952-3%~zvr. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 244121
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 888218.1554, Layer 4 to 5 Message = dfZcRNJFB=952-3%~zvr
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, segnum: 0, acknum: 41217
Recieved packet data is: ACK
Expected checksum: -81503
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 41217
Recieved packet data is: ACK
Expected checksum: -81503
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 244121 and data dfZcRNJFB=952-3%~zvr.
B gettin' a packet with seqnum 0, and checksum 244121
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 26133
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 244121
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 26133
A: no valid ACK, got instead with corruption. Resending packet with
checksum 244121 and data dfZcRNJFB=952-3%~zvr.
A timed out. Sending packet with seqnum 0, and checksum 244121 again
B gettin' a packet with seqnum 0, and checksum 244121
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 244121
```

```
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dq~.dIVdq~.;IVdq~.;I
A sending packet with seqnum 1 and checksum 236343 from the queue
A sending packet to B
B gettin' a packet with seqnum 100, and checksum 236343
Packet Corrupt!
Recieved checksum: 236343, seqnum: 100, acknum: 0
Recieved packet data is: dq~. IVdq~.; IVdq~.; I
Expected checksum: 234165
Packet Corrupt!
Recieved checksum: 236343, seqnum: 100, acknum: 0
Recieved packet data is: dq~. IVdq~.; IVdq~.;I
Expected checksum: 234165
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 952
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 236343
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 952
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 236343 and data dq~.dIVdq~.;IVdq~.;I.
A: 888904.0927, Layer 5 to 4 Message = d%=Vo*C[txja24Mf~9Rk
A timed out. Sending packet with seqnum 1, and checksum 236343 again
B gettin' a packet with segnum 1, and checksum 236343
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 889329.5920, Layer 4 to 5 Message = dq~.dIVdq~.;IVdq~.;I
Setting comp_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: e&Ed%ec$Cb#Ba!A`~? }
A sending packet with segnum 0 and checksum 246262 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 246262
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 889340.2447, Layer 4 to 5 Message = e\&Ed\%ec\$Cb\#Ba!A^*~? }
Setting comp segnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 246262 again
B gettin' a packet with segnum 0, and checksum 246262
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 246262 again
B gettin' a packet with segnum 6619136, and checksum 246262
Packet Corrupt!
Recieved checksum: 246262, segnum: 6619136, acknum: 0
Recieved packet data is: e&Ed%
Expected checksum: 20100034
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Packet Corrupt!
Recieved checksum: 246262, seqnum: 6619136, acknum: 0
Recieved packet data is: e&Ed%
Expected checksum: 20100034
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 246262
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: f8i;l>fBrEuHxK{N~Q$T
A sending packet with segnum 1 and checksum 248831 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 248831
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 890383.7431, Layer 4 to 5 Message = f8i;1>fBrEuHxK{N~Q$T
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, segnum: 1, acknum: 17153
Recieved packet data is: A
Expected checksum: -33640
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 17153
Recieved packet data is: A
Expected checksum: -33640
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 248831 and data f8i; 1>fBrEuHxK{N~Q$T.
B gettin' a packet with seqnum 1, and checksum 248831
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 19200, acknum: 0
Recieved packet data is: NA
Expected checksum: 57861
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 19200. last transmitted segnum: 1
Last sent packet Checksum: 248831
Packet Corrupt!
Recieved checksum: 936, seqnum: 19200, acknum: 0
Recieved packet data is: NA
Expected checksum: 57861
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 248831 and data f8i; 1>fBrEuHxK{N~Q$T}.
A: 890475.7547, Layer 5 to 4 Message = k7b.X\%OyFp<k3^*T\sim KuB
A timed out. Sending packet with segnum 1, and checksum 248831 again
A timed out. Sending packet with segnum 1, and checksum 248831 again
B gettin' a packet with seqnum 1, and checksum 248831
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
```

ACK seq number and last transmitted seqnum don't match!

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packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 248831
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: gKxqU9{gD(jN2tX<~cG+
A sending packet with seqnum 0 and checksum 231243 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 2852683
Packet Corrupt!
Recieved checksum: 2852683, segnum: 0, acknum: 0
Recieved packet data is: gKxqU9{gD(jN2tX<~cG
Expected checksum: 215243
Packet Corrupt!
Recieved checksum: 2852683, seqnum: 0, acknum: 0
Recieved packet data is: gKxqU9{gD(jN2tX<~cG
Expected checksum: 215243
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 231243 again
B gettin' a packet with segnum 0, and checksum 231243
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 891946.5301, Layer 4 to 5 Message = gKxqU9\{gD(jN2tX<\sim cG+
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: h^SI>4*}hi TJ?5+~tj`
A sending packet with segnum 1 and checksum 256767 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 256767
Packet Corrupt!
Recieved checksum: 256767, segnum: 1, acknum: 0
Recieved packet data is: h>SI^4*}hi TJ?5+~tj`
Expected checksum: 257439
Packet Corrupt!
Recieved checksum: 256767, seqnum: 1, acknum: 0
Recieved packet data is: h>SI^4*}hi TJ?5+~tj`
Expected checksum: 257439
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1057
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 256767
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1057
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 256767 and data h^SI>4*hi TJ?5+~tj`.
B gettin' a packet with segnum 1, and checksum 256767
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
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B: 891989.9320, Layer 4 to 5 Message = h^SI>4*}hi TJ?5+~tj`
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 769, seqnum: 164, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1421
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 164. last transmitted seqnum: 1
Last sent packet Checksum: 256767
Packet Corrupt!
Recieved checksum: 769, seqnum: 164, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1421
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 256767 and data h^SI>4*hi TJ?5+~tj`.
B gettin' a packet with seqnum 1, and checksum 256767
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 256767
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ipw~(x6=EiSZbipw~(x6
A sending packet with segnum 0 and checksum 261625 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 261625
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   892035.5766, Layer 4 to 5 Message = ipw~(x6=EiSZbipw~(x6
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 2954
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is: AC
Expected checksum: 2954
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 261625 and data ipw~(x6=EiSZbipw~(x6.
A: 892417.9573, Layer 5 to 4 Message = 1f(dB)[9uS1ml)3C^{-}:v
A timed out. Sending packet with seqnum 0, and checksum 261625 again
A timed out. Sending packet with seqnum 0, and checksum 261625 again
B gettin' a packet with seqnum 0, and checksum 261625
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 261625 again
A: 893836.6585, Layer 5 to 4 Message = m]L;+xhWG6&scmB1~n^M
A timed out. Sending packet with seqnum 0, and checksum 261625 again
A: 894463.2087, Layer 5 to 4 Message = nopgrstuvwxyz\{n\}~!#$
A timed out. Sending packet with seqnum 0, and checksum 261625 again
A timed out. Sending packet with seqnum 0, and checksum 261625 again
A timed out. Sending packet with seqnum 0, and checksum 261625 again
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A: 895567.0609, Layer 5 to 4 Message = 0$6I[n#5HZm!4GYo~3FX
B gettin' a packet with seqnum 0, and checksum 261625
Packet Corrupt!
Recieved checksum: 261625, segnum: 0, acknum: 28672
Recieved packet data is: i
Expected checksum: 203833
Packet Corrupt!
Recieved checksum: 261625, segnum: 0, acknum: 28672
Recieved packet data is: i
Expected checksum: 203833
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 261625 again
B gettin' a packet with segnum 0, and checksum 261625
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 261625 again
B gettin' a packet with seqnum 0, and checksum 261625
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 261625
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d%=Vo*C[txja24Mf~9Rk
A sending packet with segnum 1 and checksum 253046 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 253046
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 896600.3177, Layer 4 to 5 Message = d%=Vo*C[txja24Mf~9Rk
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: k7b.X%OyFp<k3^*T~KuB
A sending packet with seqnum 0 and checksum 243901 from the queue
A sending packet to B
B gettin' a packet with segnum 17920, and checksum 243901
Packet Corrupt!
Recieved checksum: 243901, segnum: 17920, acknum: 0
Recieved packet data is: k7b.X%Oy
Expected checksum: 291991
Packet Corrupt!
Recieved checksum: 243901, seqnum: 17920, acknum: 0
Recieved packet data is: k7b.X%Oy
Expected checksum: 291991
Packet corrupt
Sending bACK a NAK!
A: 897077.9835, Layer 5 to 4 Message = p6Z\sim EixSw=b(Lp6ZpEix
A timed out. Sending packet with segnum 0, and checksum 243901 again
B gettin' a packet with seqnum 0, and checksum 243901
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 897109.8685, Layer 4 to 5 Message = k7b.X\%OyFp<k3^*T\sim KuB
Setting comp segnum from 0 to 1
```

```
A timed out. Sending packet with seqnum 0, and checksum 243901 again
A timed out. Sending packet with seqnum 0, and checksum 243901 again
B gettin' a packet with seqnum 0, and checksum 243901
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 243901
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: lf(dB)[9uS1ml)3C~]:v
A sending packet with seqnum 1 and checksum 245660 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 245606
Packet Corrupt!
Recieved checksum: 245606, seqnum: 1, acknum: 0
Recieved packet data is: læ(dB)[9uS1ml)3C~]:v
Expected checksum: 244852
Packet Corrupt!
Recieved checksum: 245606, seqnum: 1, acknum: 0
Recieved packet data is: læ(dB)[9uS1ml)3C~]:v
Expected checksum: 244852
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, segnum: 1, acknum: 11206656
Recieved packet data is: NAK
Expected checksum: -22412373
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, segnum: 1, acknum: 11206656
Recieved packet data is: NAK
Expected checksum: -22412373
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 245660 and data lf(dB)[9uS1ml)3C~]:v.
B gettin' a packet with seqnum 1, and checksum 245660
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 898137.9228, Layer 4 to 5 Message = 1f(dB)[9uS1ml)3C^{1}v
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: m]L;+xhWG6&scmB1~n^M
A sending packet with seqnum 0 and checksum 252677 from the queue
A sending packet to B
A: 898574.6802, Layer 5 to 4 Message = dI~V.d;qI~V.2;qI~q.d
A timed out. Sending packet with seqnum 0, and checksum 252677 again
B gettin' a packet with seqnum 0, and checksum 252677
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 898652.1686, Layer 4 to 5 Message = m]L;+xhWG6&scmB1~n^M
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
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Data being dequeued: nopqrstuvwxyz{n}~!#$
A sending packet with seqnum 1 and checksum 252477 from the queue
A sending packet to B
B gettin' a packet with seqnum 553648129, and checksum 252477
Packet Corrupt!
Recieved checksum: 252477, seqnum: 553648129, acknum: 0
Recieved packet data is: nopqrstuvwxyz{n}~
Expected checksum: 1661186169
Packet Corrupt!
Recieved checksum: 252477, seqnum: 553648129, acknum: 0
Recieved packet data is: nopqrstuvwxyz{n}~
Expected checksum: 1661186169
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 252477 and data nopqrstuvwxyz{n}~!#$. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 252477
Packet Corrupt!
Recieved checksum: 252477, segnum: 1, acknum: 115
Recieved packet data is: nopqr
Expected checksum: 248107
Packet Corrupt!
Recieved checksum: 252477, segnum: 1, acknum: 115
Recieved packet data is: nopqr
Expected checksum: 248107
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 252477 again
B gettin' a packet with segnum 1, and checksum 1845746237
Packet Corrupt!
Recieved checksum: 1845746237, segnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 252367
Packet Corrupt!
Recieved checksum: 1845746237, segnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 252367
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 252477 and data nopqrstuvwxyz{n}~!#$. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 252477
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   899220.9798, Layer 4 to 5 Message = nopgrstuvwxyz\{n\}~!#$
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 252477 again
B gettin' a packet with seqnum 1, and checksum 252477
Packet Corrupt!
Recieved checksum: 252477, seqnum: 1, acknum: 0
Recieved packet data is: nnpqrstuvwxyz{o}~!#$
Expected checksum: 252698
Packet Corrupt!
Recieved checksum: 252477, seqnum: 1, acknum: 0
Recieved packet data is: nnpqrstuvwxyz{o}~!#$
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Expected checksum: 252698
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 75, acknum: 0
Recieved packet data is: NA
Expected checksum: 486
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 75. last transmitted segnum: 1
Last sent packet Checksum: 252477
Packet Corrupt!
Recieved checksum: 936, seqnum: 75, acknum: 0
Recieved packet data is: NA
Expected checksum: 486
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 252477 and data nopqrstuvwxyz\{n\}~!#$.
A timed out. Sending packet with seqnum 1, and checksum 252477 again
A: 900349.9377, Layer 5 to 4 Message = r[E.u H1xbK4{eN7~hr:}
A timed out. Sending packet with seqnum 1, and checksum 252477 again
B gettin' a packet with segnum 1, and checksum 252416
Packet Corrupt!
Recieved checksum: 252416, segnum: 1, acknum: 3997696
Recieved packet data is: nopgrstuvwxyz{n}~!#$
Expected checksum: -7742915
Packet Corrupt!
Recieved checksum: 252416, seqnum: 1, acknum: 3997696
Recieved packet data is: nopqrstuvwxyz{n}~!#$
Expected checksum: -7742915
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 252477
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: o$6I[n#5HZm!4GYo~3FX
A sending packet with seqnum 0 and checksum 230500 from the queue
A sending packet to B
A timed out. Sending packet with segnum 0, and checksum 230500 again
B gettin' a packet with segnum 0, and checksum 230500
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 901270.3012, Layer 4 to 5 Message = o$6I[n#5Hzm!4GYo~3FX
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 230500 again
B gettin' a packet with segnum 0, and checksum 230500
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
A: 901989.4536, Layer 5 to 4 Message = snid YTOJE?:50+&~yts
A timed out. Sending packet with seqnum 0, and checksum 230500 again
A timed out. Sending packet with seqnum 0, and checksum 230500 again
B gettin' a packet with seqnum 0, and checksum 224868
Packet Corrupt!
Recieved checksum: 224868, seqnum: 0, acknum: 0
Recieved packet data is: o$6I["#5HZm!4GYo~3FX
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Expected checksum: 222076

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Packet Corrupt!
Recieved checksum: 224868, seqnum: 0, acknum: 0
Recieved packet data is: o$6I[,,#5HZm!4GYo~3FX
Expected checksum: 222076
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 3669
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 230500
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 3669
A: no valid ACK, got instead with corruption. Resending packet with
checksum 230500 and data o$6I[n#5HZm!4GYo~3FX.
B gettin' a packet with segnum 0, and checksum 230500
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 20139, seqnum: 1, acknum: 0
Recieved packet data is: AK
Expected checksum: 864
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 230500
Packet Corrupt!
Recieved checksum: 20139, seqnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 864
A: no valid ACK, got AK instead with corruption. Resending packet with
checksum 230500 and data o$6I[n#5HZm!4GYo~3FX.
B gettin' a packet with seqnum 0, and checksum 230500
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 230500
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: p6Z~EixSw=b(Lp6ZpEix
A sending packet with segnum 1 and checksum 263749 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 263749
Packet Corrupt!
Recieved checksum: 263749, seqnum: 1, acknum: 32256
Recieved packet data is: p6Z
Expected checksum: 197221
Packet Corrupt!
Recieved checksum: 263749, segnum: 1, acknum: 32256
Recieved packet data is: p6Z
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Expected checksum: 197221

```
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 263749 and data p6Z~EixSw=b(Lp6ZpEix. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 263749
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 902888.9213, Layer 4 to 5 Message = p6Z~EixSw=b(Lp6ZpEix
Setting comp_seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 263749 again
B gettin' a packet with segnum 1, and checksum 263749
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 263749
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dI~V.d;qI~V.2;qI~q.d
A sending packet with segnum 0 and checksum 247000 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 247000
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 903424.5225, Layer 4 to 5 Message = dI~V.d;qI~V.2;qI~q.d
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: r[E.u H1xbK4{eN7~hr:
A sending packet with segnum 1 and checksum 257530 from the queue
A sending packet to B
A: 903644.1489, Layer 5 to 4 Message = t*x; HTamy(4AMYfr~-9F
A timed out. Sending packet with seqnum 1, and checksum 257530 again
B gettin' a packet with seqnum 1, and checksum 257530
Packet Corrupt!
Recieved checksum: 257530, segnum: 1, acknum: 0
Recieved packet data is: r[E.u H1x7K4{eNb~hr:
Expected checksum: 264238
Packet Corrupt!
Recieved checksum: 257530, seqnum: 1, acknum: 0
Recieved packet data is: r[E.u H1x7K4{eNb~hr:
Expected checksum: 264238
Packet corrupt
Sending bACK a NAK!
   904131.2864, Layer 5 to 4 Message = uuSq10m-Ki)Ge%3a~>]z
A timed out. Sending packet with seqnum 1, and checksum 257530 again
B gettin' a packet with seqnum 1, and checksum 257530
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 904464.6300, Layer 4 to 5 Message = r[E.u H1xbK4{eN7~hr:
Setting comp segnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 257530 again
B gettin' a packet with segnum 1, and checksum 257530
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incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 75, acknum: 0
Recieved packet data is: NA
Expected checksum: 486
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 75. last transmitted seqnum: 1
Last sent packet Checksum: 257530
Packet Corrupt!
Recieved checksum: 936, seqnum: 75, acknum: 0
Recieved packet data is: NA
Expected checksum: 486
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 257530 and data r[E.u H1xbK4{eN7~hr:.
B gettin' a packet with seqnum 1, and checksum 257530
Packet Corrupt!
Recieved checksum: 257530, segnum: 1, acknum: 0
Recieved packet data is: r[E.u H1xbKe{4N7~hr:
Expected checksum: 254982
Packet Corrupt!
Recieved checksum: 257530, segnum: 1, acknum: 0
Recieved packet data is: r[E.u H1xbKe{4N7~hr:
Expected checksum: 254982
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 257530
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: snid YTOJE?:50+&~yts
A sending packet with segnum 0 and checksum 247905 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 247905
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   905012.3017, Layer 4 to 5 Message = snid YTOJE?:50+&~yts
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: t#x;HTamy(4AMYfr~-9F
A sending packet with seqnum 1 and checksum 230374 from the queue
A sending packet to B
   905253.1699, Layer 5 to 4 Message = vHvIxJyKzL\{M|N\}O\sim P!Q
A timed out. Sending packet with seqnum 1, and checksum 230374 again
B gettin' a packet with seqnum 1, and checksum 230374
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 905533.2378, Layer 4 to 5 Message = t \pm x; HTamy (4AMYfr~-9F
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
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Recieved packet data is: A
Expected checksum: 17816
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 17816
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 230374 and data t#x; HTamy (4AMYfr~-9F.
A: 905764.5665, Layer 5 to 4 Message = wZ=wbE(iLxpS6wZ=\sim bE(
A timed out. Sending packet with seqnum 1, and checksum 230374 again
B gettin' a packet with segnum 1, and checksum 230374
Packet Corrupt!
Recieved checksum: 230374, seqnum: 1, acknum: 0
Recieved packet data is: t#x; HTamy (4AMYrf~-9F
Expected checksum: 230002
Packet Corrupt!
Recieved checksum: 230374, seqnum: 1, acknum: 0
Recieved packet data is: t#x; HTamy (4AMYrf~-9F
Expected checksum: 230002
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 230374
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: uuSq10m-Ki)Ge%3a~>]z
A sending packet with seqnum 0 and checksum 246616 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 246616
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 906111.7549, Layer 4 to 5 Message = uuSq10m-Ki)Ge%3a~>]z
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: vHvIxJyKzL{M|N}O~P!Q
A sending packet with segnum 1 and checksum 253648 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 253648
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   906136.0614, Layer 4 to 5 Message = vHvIxJyKzL\{M|N\}O\sim P!Q
B:
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 4916132, segnum: 1, acknum: 1
Recieved packet data is: AC
Expected checksum: 257
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 4916132, segnum: 1, acknum: 1
Recieved packet data is: AC
Expected checksum: 257
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A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 253648 and data vHvIxJyKzL\{M|N\}O\sim P!Q.
B gettin' a packet with seqnum 1, and checksum 253648
Packet Corrupt!
Recieved checksum: 253648, seqnum: 1, acknum: 0
Recieved packet data is: vHvIxNyKzL{M|J}O~P!Q
Expected checksum: 253008
Packet Corrupt!
Recieved checksum: 253648, segnum: 1, acknum: 0
Recieved packet data is: vHvIxNyKzL{M|J}O~P!Q
Expected checksum: 253008
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 253648 again
B gettin' a packet with seqnum 1, and checksum 253648
Packet Corrupt!
Recieved checksum: 253648, seqnum: 1, acknum: 0
Recieved packet data is: vHvIxJyKML{z|N}O~P!Q
Expected checksum: 256483
Packet Corrupt!
Recieved checksum: 253648, seqnum: 1, acknum: 0
Recieved packet data is: vHvIxJyKML{z|N}O~P!Q
Expected checksum: 256483
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 253648
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: wZ=wbE(iLxpS6wZ=~bE(
A sending packet with segnum 0 and checksum 237520 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 237520
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 906677.6236, Layer 4 to 5 Message = wZ=wbE(iLxpS6wZ=~bE(
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 237520 again
   907231.7747, Layer 5 to 4 Message = dmbVx?4) {peY2C7,~sh}
A timed out. Sending packet with seqnum 0, and checksum 237520 again
B gettin' a packet with segnum 0, and checksum 237520
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 237520 again
A: 908422.9252, Layer 5 to 4 Message = y!(.4yAGMSY`flrx~'-3
A timed out. Sending packet with seqnum 0, and checksum 237520 again
B gettin' a packet with segnum 0, and checksum 237520
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 237520
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dmbVx?4) {peY2C7, ~sh]
A sending packet with segnum 1 and checksum 252999 from the queue
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A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 252999 again
B gettin' a packet with seqnum 1, and checksum 252999
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 909190.6812, Layer 4 to 5 Message = dmbVx?4) {peY2C7,~sh]
Setting comp segnum from 1 to 0
A: 909553.9980, Layer 5 to 4 Message = z4Ld{5ze|6Nf}70g^8Ph
A timed out. Sending packet with segnum 1, and checksum 252999 again
B gettin' a packet with segnum 1, and checksum 252999
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 252999
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: y!(.4yAGMSY`flrx~'-3
A sending packet with segnum 0 and checksum 234258 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 234258 again
   910511.7730, Layer 5 to 4 Message = \{Gp; e0Y\{NwC17a, U\sim Js\}\}
A timed out. Sending packet with segnum 0, and checksum 234258 again
B gettin' a packet with seqnum 0, and checksum 7967506
Packet Corrupt!
Recieved checksum: 7967506, seqnum: 0, acknum: 0
Recieved packet data is: y!(.4 AGMSY`flrx~'-3
Expected checksum: 230010
Packet Corrupt!
Recieved checksum: 7967506, segnum: 0, acknum: 0
Recieved packet data is: y!(.4 AGMSY`flrx~'-3
Expected checksum: 230010
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 234258 and data y!(.4yAGMSY`flrx~'-3. corrupted from
A to B, resending
   911118.9584, Layer 5 to 4 Message = |Y6qN+fC|Z7rO,gD~[8s
A timed out. Sending packet with segnum 0, and checksum 234258 again
B gettin' a packet with segnum 0, and checksum 234258
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 911307.1068, Layer 4 to 5 Message = y!(.4yAGMSY`flrx~'-3
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: z4Ld{5ze|6Nf}70g~8Ph
A sending packet with seqnum 1 and checksum 260621 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 260621
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 911346.6719, Layer 4 to 5 Message = z4Ld{5ze|6Nf}70g~8Ph
Setting comp seqnum from 1 to 0
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Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, segnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 11987
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, segnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 11987
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 260621 and data z4Ld{5ze|6Nf}70g~8Ph.
B gettin' a packet with seqnum 1, and checksum 260621
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A: 911742.2485, Layer 5 to 4 Message = }lZI7&raO},xqUD2~m[J
A timed out. Sending packet with seqnum 1, and checksum 260621 again
A timed out. Sending packet with seqnum 1, and checksum 260621 again
B gettin' a packet with segnum 1, and checksum 260621
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 260621
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: {Gp;e0Y{NwCl7a,U~Js>
A sending packet with segnum 0 and checksum 247317 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 247317
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 912405.3526, Layer 4 to 5 Message = {Gp;e0Y{NwCl7a,U~Js>
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 4390912, acknum: 1
Recieved packet data is: A
Expected checksum: 13173397
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 4390912. last transmitted segnum: 0
Last sent packet Checksum: 247317
Packet Corrupt!
Recieved checksum: 929, seqnum: 4390912, acknum: 1
Recieved packet data is: A
Expected checksum: 13173397
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 247317 and data {Gp;e0Y{NwCl7a,U~Js>.
B gettin' a packet with segnum 0, and checksum 247317
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 247317 again
B gettin' a packet with segnum 0, and checksum 247317
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
A: 913335.7658, Layer 5 to 4 Message = ~f~~~~~~3~~~~~
A timed out. Sending packet with seqnum 0, and checksum 247317 again
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A: 913840.9201, Layer 5 to 4 Message = !3EVhy->Pbs'2J[m~2DU
A timed out. Sending packet with seqnum 0, and checksum 247317 again
B gettin' a packet with seqnum 0, and checksum 247317
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 247317
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: |Y6qN+fC|Z7rO,gD~[8s
A sending packet with segnum 1 and checksum 252271 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 252271 again
A timed out. Sending packet with segnum 1, and checksum 252271 again
B gettin' a packet with seqnum 1, and checksum 252271
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   914940.9998, Layer 4 to 5 Message = |Y6qN+fC|Z7rO,gD~[8s
Setting comp segnum from 1 to 0
Recieved an \overline{ACK/NAK}...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: }lZI7&raO},xgUD2~m[J
A sending packet with segnum 0 and checksum 254846 from the queue
A sending packet to B
   915089.9895, Layer 5 to 4 Message = ##i.Qt9]!Eh-Ps8[~Dg,
A:
A: 915416.5893, Layer 5 to 4 Message = X$d:oFzQ(]3h>sJ~U,a
A timed out. Sending packet with seqnum 0, and checksum 254846 again
A timed out. Sending packet with segnum 0, and checksum 254846 again
B gettin' a packet with segnum 0, and checksum 254846
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 915986.4155, Layer 4 to 5 Message = }1ZI7&raO},xgUD2~m[J
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 67
Recieved packet data is: A K
Expected checksum: 533
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 67
Recieved packet data is: A K
Expected checksum: 533
A: no valid ACK, got A K instead with corruption. Resending packet with
checksum 254846 and data }lZI7&raO},xgUD2~m[J.
A timed out. Sending packet with seqnum 0, and checksum 254846 again
B gettin' a packet with segnum 0, and checksum 254846
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 254846
Not corrupt, but bad sequence number, sending next boi
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Data being dequeued: ~f~~~~~3~~~~
A sending packet with seqnum 1 and checksum 344575 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 344575
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 916540.1072, Layer 4 to 5 Message = \sim f \sim \sim \sim \sim \sim 3 \sim \sim \sim \sim
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: !3EVhy->Pbs'2J[m~2DU
A sending packet with segnum 0 and checksum 233592 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 233592
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 916566.7425, Layer 4 to 5 Message = !3EVhy->Pbs'2J[m~2DU
Setting comp seqnum from 0 to 1
A: 916579.4465, Layer 5 to 4 Message = %kS%$jR:#iQ9!hP8~gO7
A timed out. Sending packet with seqnum 0, and checksum 233592 again
B gettin' a packet with segnum 0, and checksum 233592
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: N
Expected checksum: 15304
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 233592
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: N
Expected checksum: 15304
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 233592 and data !3EVhy->Pbs'2J[m~2DU.
A timed out. Sending packet with segnum 0, and checksum 233592 again
B gettin' a packet with segnum 0, and checksum 233592
Packet Corrupt!
Recieved checksum: 233592, seqnum: 0, acknum: 0
Recieved packet data is: !3EVhP->ybs'2J[m~2DU
Expected checksum: 235437
Packet Corrupt!
Recieved checksum: 233592, seqnum: 0, acknum: 0
Recieved packet data is: !3EVhP->ybs'2J[m~2DU
Expected checksum: 235437
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 233592
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ##i.Qt9]!Eh-Ps8[~Dg,
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A sending packet with seqnum 1 and checksum 230550 from the queue
A sending packet to B
A timed out. Sending packet with segnum 1, and checksum 230550 again
B gettin' a packet with seqnum 1, and checksum 230550
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 918168.9498, Layer 4 to 5 Message = ##i.Qt9]!Eh-Ps8[~Dq,
Setting comp segnum from 1 to 0
A: 918537.3\overline{6}56, Layer 5 to 4 Message = &\wq&e XRLF?93-'~xrl
A timed out. Sending packet with segnum 1, and checksum 230550 again
B gettin' a packet with segnum 1, and checksum 230550
Packet Corrupt!
Recieved checksum: 230550, seqnum: 1, acknum: 0
Recieved packet data is: ##i.Qt9]!EhsP-8[~Dg,
Expected checksum: 226910
Packet Corrupt!
Recieved checksum: 230550, seqnum: 1, acknum: 0
Recieved packet data is: ##i.Qt9]!EhsP-8[~Dq,
Expected checksum: 226910
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, segnum: 19200, acknum: 0
Recieved packet data is: NA
Expected checksum: 57861
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 19200. last transmitted seqnum: 1
Last sent packet Checksum: 230550
Packet Corrupt!
Recieved checksum: 936, segnum: 19200, acknum: 0
Recieved packet data is: NA
Expected checksum: 57861
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 230550 and data ##i.Qt9]!Eh-Ps8[~Dg,.
A: 918939.0558, Layer 5 to 4 Message = '2=IT'kv$x:FQ]hs~,7C
A timed out. Sending packet with seqnum 1, and checksum 230550 again
A timed out. Sending packet with seqnum 1, and checksum 230550 again
   919893.5470, Layer 5 to 4 Message = (Eb~=Z(6SpxLi(Eb~=Zw
A timed out. Sending packet with segnum 1, and checksum 230550 again
B gettin' a packet with segnum 1, and checksum 230550
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 1258292136, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 261
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 230550
Packet Corrupt!
Recieved checksum: 1258292136, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 261
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 230550 and data ##i.Qt9]!Eh-Ps8[~Dg,.
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B gettin' a packet with seqnum 1, and checksum 230550
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 230550
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: $X$d:oFzQ(]3h>sJ~U,a
A sending packet with segnum 0 and checksum 241262 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 241262
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 920251.7882, Layer 4 to 5 Message = $X$d:oFzQ(]3h>sJ~U,a
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 241262 again
A: 921049.1163, Layer 5 to 4 Message = dW(V'U&)%S$R2Q!P~O}N
A timed out. Sending packet with seqnum 0, and checksum 241262 again
A timed out. Sending packet with seqnum 0, and checksum 241262 again
B gettin' a packet with seqnum 0, and checksum 241262
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 241262
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: %kS%$jR:#iQ9!hP8~gO7
A sending packet with segnum 1 and checksum 224122 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 224079
Packet Corrupt!
Recieved checksum: 224079, seqnum: 1, acknum: 0
Recieved packet data is: %kS%$jR:#iQ9!hP8~gz7
Expected checksum: 239645
Packet Corrupt!
Recieved checksum: 224079, seqnum: 1, acknum: 0
Recieved packet data is: %kS%$jR:#iQ9!hP8~qz7
Expected checksum: 239645
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 224122 again
A: 922368.3562, Layer 5 to 4 Message = *fL.nP2r*6vX:z3>~aC%
A timed out. Sending packet with seqnum 1, and checksum 224122 again
B gettin' a packet with seqnum 1, and checksum 224122
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 922785.4190, Layer 4 to 5 Message = %kS%$jR:#iQ9!hP8~g07
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: &}wq&e XRLF?93-'~xrl
A sending packet with segnum 0 and checksum 249383 from the queue
A sending packet to B
```

```
B gettin' a packet with seqnum 0, and checksum 249383
Packet Corrupt!
Recieved checksum: 249383, seqnum: 0, acknum: 0
Recieved packet data is: & wq&e XRLF?93-x~'rl
Expected checksum: 243875
Packet Corrupt!
Recieved checksum: 249383, seqnum: 0, acknum: 0
Recieved packet data is: & wq&e XRLF?93-x~'rl
Expected checksum: 243875
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 249383 and data & \ wq&e XRLF?93-'~xrl. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 196647
Packet Corrupt!
Recieved checksum: 196647, seqnum: 0, acknum: 206
Recieved packet data is: & } wq&e XRLF?93-'~xrl
Expected checksum: 248971
Packet Corrupt!
Recieved checksum: 196647, segnum: 0, acknum: 206
Recieved packet data is: & wq&e XRLF?93-'~xrl
Expected checksum: 248971
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 4680
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 4680
A: no valid ACK, got instead with corruption. Resending packet with
checksum 249383 and data & \ wq&e XRLF?93-'~xrl.
B gettin' a packet with seqnum 0, and checksum 249383
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
Setting comp seqnum from 0 to 1
A timed out. Sending packet with segnum 0, and checksum 249383 again
B gettin' a packet with seqnum 0, and checksum 249383
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 249383
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: '2=IT'kv$x:FQ]hs~,7C
A sending packet with segnum 1 and checksum 232277 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 232277
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
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B sending message up to layer 5 and updating newest recieved data
B: 923432.3283, Layer 4 to 5 Message = '2=IT'kv$x:FQ]hs\sim,7C
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: (Eb~=Z(6SpxLi(Eb~=Zw
A sending packet with segnum 0 and checksum 259171 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 259171
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   923471.0178, Layer 4 to 5 Message = (Eb~=Z(6SpxLi(Eb~=Zw
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dW(V'U&)%S$R2Q!P~O}N
A sending packet with segnum 1 and checksum 228658 from the queue
A sending packet to B
A: 923820.9497, Layer 5 to 4 Message = +|pdWK>2&+k RF9-~rfY
A timed out. Sending packet with seqnum 1, and checksum 228658 again
    924448.3275, Layer 5 to 4 Message = ,16;AFKPUZ,ejoty~\&+0
A timed out. Sending packet with seqnum 1, and checksum 228658 again
B gettin' a packet with seqnum 1, and checksum 228658
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 924500.6107, Layer 4 to 5 Message = dW(V'U\&)%S$R2Q!P~O}N
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: -14616
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: -14616
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 228658 and data dW(V'U&)%S$R2Q!P~O}N.
A timed out. Sending packet with seqnum 1, and checksum 228658 again
B gettin' a packet with seqnum 1, and checksum 228658
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 228658
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: *fL.nP2r*6vX:z3>~aC%
A sending packet with seqnum 0 and checksum 220811 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 220811
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
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B: 925069.5390, Layer 4 to 5 Message = *fL.nP2r*6vX:z3>~aC%
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 220811 again
A timed out. Sending packet with seqnum 0, and checksum 220811 again
A: 926141.5875, Layer 5 to 4 Message = -DZq*AWn'=T-$:Qh~7Ne
A timed out. Sending packet with seqnum 0, and checksum 220811 again
B gettin' a packet with seqnum 0, and checksum 220760
Packet Corrupt!
Recieved checksum: 220760, segnum: 0, acknum: 0
Recieved packet data is: *fL.nP2r*6v<:z3>~aC%
Expected checksum: 191291
Packet Corrupt!
Recieved checksum: 220760, seqnum: 0, acknum: 0
Recieved packet data is: *fL.nP2r*6v<:z3>~aC%
Expected checksum: 191291
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1086
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 220811
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1086
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 220811 and data *fL.nP2r*6vX:z3>~aC%.
B gettin' a packet with seqnum 0, and checksum 220811
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 220811
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: +|pdWK>2&+k RF9-~rfY
A sending packet with segnum 1 and checksum 245886 from the queue
A sending packet to B
A timed out. Sending packet with segnum 1, and checksum 245886 again
B gettin' a packet with seqnum 1, and checksum 245886
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   927082.0221, Layer 4 to 5 Message = +|pdWK>2&+k RF9-~rfY
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, segnum: 1, acknum: 1
Recieved packet data is:
Expected checksum: 2492
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is:
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Expected checksum: 2492
A: no valid ACK, got instead with corruption. Resending packet with
checksum 245886 and data +|pdWK>2&+k RF9-~rfY.
B gettin' a packet with seqnum 1, and checksum 245886
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 43008
Recieved packet data is: NAK
Expected checksum: -85080
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 245886
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 43008
Recieved packet data is: NAK
Expected checksum: -85080
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 245886 and data +|pdWK>2&+k RF9-~rfY.
B gettin' a packet with segnum 1, and checksum 245886
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 245886 again
B gettin' a packet with seqnum 1, and checksum 245886
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 12936
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 245886
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 12936
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 245886 and data +|pdWK>2&+k RF9-~rfY.
B gettin' a packet with segnum 1, and checksum 245886
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 245886
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ,16;AFKPUZ,ejoty~&+0
A sending packet with seqnum 0 and checksum 230481 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 230481
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 927690.4557, Layer 4 to 5 Message = ,16;AFKPUZ,ejoty~&+0
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Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: -DZq*AWn'=T-$:Qh~7Ne
A sending packet with segnum 1 and checksum 228550 from the queue
A sending packet to B
   927909.4676, Layer 5 to 4 Message = .V~Iq;d.V~Iq.d.V~Iq;
A timed out. Sending packet with segnum 1, and checksum 228550 again
B gettin' a packet with segnum 1, and checksum 228550
Packet Corrupt!
Recieved checksum: 228550, seqnum: 1, acknum: 0
Recieved packet data is: -7Zq*AWn'=T-$:Qh~DNe
Expected checksum: 232710
Packet Corrupt!
Recieved checksum: 228550, segnum: 1, acknum: 0
Recieved packet data is: -7Zq*AWn'=T-$:Qh~DNe
Expected checksum: 232710
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 228550 and data -DZq*AWn'=T-$:Qh~7Ne. corrupted from
A to B, resending
A timed out. Sending packet with segnum 1, and checksum 228550 again
B gettin' a packet with seqnum 1, and checksum 228550
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   928744.2106, Layer 4 to 5 Message = -DZq*AWn'=T-$:Qh~7Ne
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: .V~Iq;d.V~Iq.d.V~Iq;
A sending packet with segnum 0 and checksum 244278 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 244278
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   928791.6156, Layer 4 to 5 Message = .V~Iq;d.V~Iq.d.V~Iq;
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
   929059.6979, Layer 5 to 4 Message = xiE~Z6pL(b=wSxiE~Z6p
A sending packet with seqnum 1 and checksum 263910
A sending packet to B
B gettin' a packet with segnum 1, and checksum 263910
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   929076.9584, Layer 4 to 5 Message = xiE~Z6pL(b=wSxiE~Z6p
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
A: 930506.5653, Layer 5 to 4 Message = d{iVD1|jWE2}2X03\sim1YG
A sending packet with segnum 0 and checksum 238646
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A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 238646 again
B gettin' a packet with seqnum 0, and checksum 210596
Packet Corrupt!
Recieved checksum: 210596, seqnum: 0, acknum: 0
Recieved packet data is: b{iVD1|jWE2}3X03~1YG
Expected checksum: 238813
Packet Corrupt!
Recieved checksum: 210596, segnum: 0, acknum: 0
Recieved packet data is: b{iVD1|jWE2}3X03~1YG
Expected checksum: 238813
Packet corrupt
Sending bACK a NAK!
A: 931034.2249, Layer 5 to 4 Message = 10x.-,+*) ('&%$\$1~}|{
A: 931491.4382, Layer 5 to 4 Message = 2CSdt'7HXiy,<M^n21BR
A timed out. Sending packet with segnum 0, and checksum 238646 again
B gettin' a packet with seqnum 0, and checksum 238646
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   931526.2449, Layer 4 to 5 Message = d{iVD1|jWE2}2X03~1YG
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: 10x.-,+*)('&%$$#1~}|{}
A sending packet with segnum 1 and checksum 231605 from the queue
A sending packet to B
A: 931875.0822, Layer 5 to 4 Message = 3fw;^!Df*Ln2Tv3]~3e)
A timed out. Sending packet with seqnum 1, and checksum 231605 again
B gettin' a packet with seqnum 1, and checksum 231605
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 932069.0169, Layer 4 to 5 Message = 10x.-,+*) ('&%$\$1~}|{
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 27464
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 27464
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 231605 and data 10x.-,+*)('&%$#1~}|{.}
B gettin' a packet with seqnum 1, and checksum 231605
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 19968
Recieved packet data is:
Expected checksum: -39078
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 231605
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Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 19968
Recieved packet data is:
Expected checksum: -39078
A: no valid ACK, got instead with corruption. Resending packet with
checksum 231605 and data 10x.-,+*)('&%$#1~}|{.}
A timed out. Sending packet with seqnum 1, and checksum 231605 again
B gettin' a packet with segnum 31489, and checksum 231605
Packet Corrupt!
Recieved checksum: 231605, seqnum: 31489, acknum: 0
Recieved packet data is: 10x.-,+*) ('&%$\$\#1~}|
Expected checksum: 276869
Packet Corrupt!
Recieved checksum: 231605, seqnum: 31489, acknum: 0
Recieved packet data is: 10x.-,+*)('\&%$$#1~}|
Expected checksum: 276869
Packet corrupt
Sending bACK a NAK!
A: 933083.2203, Layer 5 to 4 Message = 4h=gGzP&Yxc8lBuK~T4^
A timed out. Sending packet with seqnum 1, and checksum 231605 again
A timed out. Sending packet with seqnum 1, and checksum 231605 again
B gettin' a packet with segnum 1, and checksum 231605
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 231605
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 2CSdt'7HXiy, <M^n21BR
A sending packet with segnum 0 and checksum 214294 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 214294
Packet Corrupt!
Recieved checksum: 214294, seqnum: 0, acknum: 0
Recieved packet data is: 2CSdt'7HBiy, <M^n21XR
Expected checksum: 220454
Packet Corrupt!
Recieved checksum: 214294, seqnum: 0, acknum: 0
Recieved packet data is: 2CSdt'7HBiy, <M^n21XR
Expected checksum: 220454
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 214294 again
B gettin' a packet with seqnum 0, and checksum 214294
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   934122.6345, Layer 4 to 5 Message = 2CSdt'7HXiy,<M^n21BR
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 214294 again
B gettin' a packet with seqnum 0, and checksum 1946371350
Packet Corrupt!
Recieved checksum: 1946371350, seqnum: 0, acknum: 0
Recieved packet data is: 2CSd
Expected checksum: 211394
Packet Corrupt!
Recieved checksum: 1946371350, seqnum: 0, acknum: 0
Recieved packet data is: 2CSd
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Expected checksum: 211394
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 214294
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 3fw;^!Df*Ln2Tv3]~3e)
A sending packet with segnum 1 and checksum 225716 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 225716
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   934640.0729, Layer 4 to 5 Message = 3fw;^!Df*Ln2Tv3]~3e)
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: -10200
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: -10200
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 225716 and data 3fw; ^!Df*Ln2Tv3]~3e).
B gettin' a packet with seqnum 1, and checksum 225716
Packet Corrupt!
Recieved checksum: 225716, segnum: 1, acknum: 68
Recieved packet data is: 3fw;^!
Expected checksum: 222248
Packet Corrupt!
Recieved checksum: 225716, seqnum: 1, acknum: 68
Recieved packet data is: 3fw;^!
Expected checksum: 222248
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 225716
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 4h=qGzP&Yxc8lBuK~T4^
A sending packet with segnum 0 and checksum 251234 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 251234
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 934667.2100, Layer 4 to 5 Message = 4h=qGzP&Yxc8lBuK~T4^
Setting comp segnum from 0 to 1
A: 934669.9427, Layer 5 to 4 Message = 5zbI0u]D+pW>&kR9~fM5
A: 935106.7421, Layer 5 to 4 Message = 6x(\sim wpibZSLE=6x(\sim wpi
A timed out. Sending packet with seqnum 0, and checksum 251234 again
B gettin' a packet with segnum 0, and checksum 251234
```

```
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 251234
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 5zbIOu]D+pW>&kR9~fM5
A sending packet with segnum 1 and checksum 229871 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 229871
Packet Corrupt!
Recieved checksum: 229871, seqnum: 1, acknum: 0
Recieved packet data is: 5zbI0f]D+pW>&kR9~uM5
Expected checksum: 234191
Packet Corrupt!
Recieved checksum: 229871, seqnum: 1, acknum: 0
Recieved packet data is: 5zbI0f]D+pW>&kR9~uM5
Expected checksum: 234191
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 229871 and data 5zbI0u]D+pW>&kR9~fM5. corrupted from
A to B, resending
A timed out. Sending packet with seqnum 1, and checksum 229871 again
B gettin' a packet with segnum 1, and checksum 229871
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   935728.0107, Layer 4 to 5 Message = 5zbI0u]D+pW>&kR9~fM5
Setting comp segnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 229871 again
B gettin' a packet with segnum 4063233, and checksum 229871
Packet Corrupt!
Recieved checksum: 229871, seqnum: 4063233, acknum: 0
Recieved packet data is: 5zbI0u]D+pW
Expected checksum: 12410639
Packet Corrupt!
Recieved checksum: 229871, seqnum: 4063233, acknum: 0
Recieved packet data is: 5zbI0u|D+pW
Expected checksum: 12410639
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 229871
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 6x(~wpibZSLE=6x(~wpi
A sending packet with segnum 0 and checksum 271514 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 271514
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 936242.2429, Layer 4 to 5 Message = 6x(~wpibZSLE=6x(~wpi
Setting comp seqnum from 0 to 1
```

```
A: 936393.2677, Layer 5 to 4 Message = d7LVaku!, 6AK2 jt \sim +5?
A timed out. Sending packet with seqnum 0, and checksum 271514 again
B gettin' a packet with seqnum 0, and checksum 271514
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 271514
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d7LVaku!,6AK2`jt~+5?
A sending packet with seqnum 1 and checksum 219548 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 219548
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 936804.5797, Layer 4 to 5 Message = d7LVaku!, 6AK2`jt~+5?
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 1258292132, seqnum: 1, acknum: 1
Recieved packet data is: AC
Expected checksum: 257
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 1258292132, segnum: 1, acknum: 1
Recieved packet data is: AC
Expected checksum: 257
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 219548 and data d7LVaku!, 6AK2`jt~+5?.
A timed out. Sending packet with segnum 1, and checksum 219548 again
B gettin' a packet with segnum 4259841, and checksum 219548
Packet Corrupt!
Recieved checksum: 219548, seqnum: 4259841, acknum: 0
Recieved packet data is: b7LVaku!,6
Expected checksum: 12991370
Packet Corrupt!
Recieved checksum: 219548, seqnum: 4259841, acknum: 0
Recieved packet data is: b7LVaku!,6
Expected checksum: 12991370
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 219548
Not corrupt, but bad sequence number, sending next boi
A: 938016.4730, Layer 5 to 4 Message = 8T8.Jf?[w5Qm+Gc~<Xt
A sending packet with segnum 0 and checksum 252411
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 252411
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 938040.8715, Layer 4 to 5 Message = 8T8.Jf$?[w5Qm+Gc~<Xt
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 252411 again
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```
B gettin' a packet with seqnum 0, and checksum 252411
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 252411 again
B gettin' a packet with seqnum 116, and checksum 252411
Packet Corrupt!
Recieved checksum: 252411, seqnum: 116, acknum: 0
Recieved packet data is: 8T8.Jf$?[w5Qm+Gc~<X
Expected checksum: 206359
Packet Corrupt!
Recieved checksum: 252411, seqnum: 116, acknum: 0
Recieved packet data is: 8T8.Jf$?[w5Qm+Gc~<X
Expected checksum: 206359
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 252411 again
B gettin' a packet with seqnum 0, and checksum 252411
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 7764
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 252411
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 7764
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 252411 and data 8T8.Jf$?[w5Qm+Gc~<Xt.
A: 939711.0656, Layer 5 to 4 Message = 99693a0^-Z*W'T$Q~N{K}
A timed out. Sending packet with seqnum 0, and checksum 252411 again
B gettin' a packet with seqnum 0, and checksum 252411
Packet Corrupt!
Recieved checksum: 252411, seqnum: 0, acknum: 0
Recieved packet data is: 8T8.J~$?[w5Qm+Gcf<Xt
Expected checksum: 246339
Packet Corrupt!
Recieved checksum: 252411, seqnum: 0, acknum: 0
Recieved packet data is: 8T8.J~$?[w5Qm+Gcf<Xt
Expected checksum: 246339
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 252411
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: 9g693a0^-Z*W'T$Q~N{K
A sending packet with seqnum 1 and checksum 233163 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 233163
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
```

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B: 940082.5823, Layer 4 to 5 Message = 9g693a0^-Z*W'T$Q~N{K}
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
   941046.0526, Layer 5 to 4 Message = :yZ;:[<{]=|^>} ?~`A!
A sending packet with seqnum 0 and checksum 236594
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 236594
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 941053.3655, Layer 4 to 5 Message = :yZ;:[<{]=|^>} ?~`A!
Setting comp segnum from 0 to 1
A: 941060.7884, Layer 5 to 4 Message = ;.~qd;I;.~qdVI;.~qdV
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ;.~qd;I;.~qdVI;.~qdV
A sending packet with segnum 1 and checksum 256906 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 256906
Packet Corrupt!
Recieved checksum: 256906, segnum: 1, acknum: 1677721600
Recieved packet data is: ;.~qd;I;.~q
Expected checksum: 939766602
Packet Corrupt!
Recieved checksum: 256906, seqnum: 1, acknum: 1677721600
Recieved packet data is: ;.~qd;I;.~q
Expected checksum: 939766602
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1614
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1614
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 256906 and data ;.~qd;I;.~qdVI;.~qdV.
A timed out. Sending packet with seqnum 1, and checksum 256906 again
B gettin' a packet with seqnum 1, and checksum 256906
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   941611.2439, Layer 4 to 5 Message = ;.~qd;I;.~qdVI;.~qdV
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, segnum: 1, acknum: 1
Recieved packet data is: ACK¤
Expected checksum: -540
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 1
Recieved packet data is: ACK¤
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Expected checksum: -540
A: no valid ACK, got ACK¤ instead with corruption. Resending packet with
checksum 256906 and data ;.~qd;I;.~qdVI;.~qdV.
B gettin' a packet with seqnum 1, and checksum 256906
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
   941823.4880, Layer 5 to 4 Message = <fEIMQ<Y^bfjnr3z~%)-
    942058.6005, Layer 5 to 4 Message = =Si\sim6Lb=xEZp(=Si\sim6Lb
A timed out. Sending packet with seqnum 1, and checksum 256906 again
B gettin' a packet with segnum 1, and checksum 256906
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 256906
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: <fEIMQ<Y^bfjnr3z~%) -
A sending packet with segnum 0 and checksum 225521 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 225521
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 942188.7576, Layer 4 to 5 Message = \{fEIMQ < Y^bfjnr3z \sim \}\}
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 1258291200, acknum: 1
Recieved packet data is: AC
Expected checksum: -520093442
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1258291200. last transmitted seqnum: 0
Last sent packet Checksum: 225521
Packet Corrupt!
Recieved checksum: 929, seqnum: 1258291200, acknum: 1
Recieved packet data is: AC
Expected checksum: -520093442
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 225521 and data <fEIMQ<Y^bfjnr3z~%)-.
A timed out. Sending packet with seqnum 0, and checksum 225521 again
B gettin' a packet with segnum 0, and checksum 225521
Packet Corrupt!
Recieved checksum: 225521, seqnum: 0, acknum: 0
Recieved packet data is: <fErMQ<Y^bfjnI3z~%) -</pre>
Expected checksum: 218141
Packet Corrupt!
Recieved checksum: 225521, seqnum: 0, acknum: 0
Recieved packet data is: <fErMQ<Y^bfjnI3z~%) -</pre>
Expected checksum: 218141
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 225521 again
A: 943593.4257, Layer 5 to 4 Message = dfxV{Gn7>(Ov2g0W~Ho8)
A timed out. Sending packet with seqnum 0, and checksum 225521 again
B gettin' a packet with segnum 0, and checksum 225521
Packet Corrupt!
Recieved checksum: 225521, seqnum: 0, acknum: 0
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Recieved packet data is: <fEIMQ<Yfb^jnr3z~%)-
Expected checksum: 225201
Packet Corrupt!
Recieved checksum: 225521, seqnum: 0, acknum: 0
Recieved packet data is: <fEIMQ<Yfb^jnr3z~%)-
Expected checksum: 225201
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 225521 again
A: 944232.3062, Layer 5 to 4 Message = 2xS.qBzU0?D|W2kF\sim Y4m
A timed out. Sending packet with seqnum 0, and checksum 225521 again
B gettin' a packet with seqnum 0, and checksum 225521
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1047
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 225521
Packet Corrupt!
Recieved checksum: 171, segnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1047
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 225521 and data <fEIMQ<Y^bfjnr3z~%)-.
A timed out. Sending packet with seqnum 0, and checksum 225521 again
B gettin' a packet with segnum 0, and checksum 225521
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
   945691.5050, Layer 5 to 4 Message = A-wdP<)s`LA%o[H4~kWD
A timed out. Sending packet with seqnum 0, and checksum 225521 again
A timed out. Sending packet with seqnum 0, and checksum 225521 again
B gettin' a packet with seqnum 0, and checksum 225521
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 225521
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: =Si~6Lb=xEZp(=Si~6Lb
A sending packet with seqnum 1 and checksum 244527 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 244527
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 946272.8981, Layer 4 to 5 Message = =Si~6Lb=xEZp(=Si~6Lb
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1050
```

Bad ACK or NAK determined by A

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ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 244527
Packet Corrupt!
Recieved checksum: 932, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1050
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 244527 and data =Si~6Lb=xEZp(=Si~6Lb.
B gettin' a packet with seqnum 1, and checksum 244527
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 11010048, acknum: 0
Recieved packet data is: NAK
Expected checksum: 33031080
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 11010048. last transmitted segnum: 1
Last sent packet Checksum: 244527
Packet Corrupt!
Recieved checksum: 768, seqnum: 11010048, acknum: 0
Recieved packet data is: NAK
Expected checksum: 33031080
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 244527 and data =Si~6Lb=xEZp(=Si~6Lb.
B gettin' a packet with seqnum 1, and checksum 244527
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 244527 again
B gettin' a packet with segnum 1, and checksum 244527
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A: 946922.5431, Layer 5 to 4 Message = B?=;97531x-B)'%#~|zx
A timed out. Sending packet with seqnum 1, and checksum 244527 again
A timed out. Sending packet with seqnum 1, and checksum 244527 again
A timed out. Sending packet with seqnum 1, and checksum 244527 again
B gettin' a packet with seqnum 1, and checksum 244527
Packet Corrupt!
Recieved checksum: 244527, segnum: 1, acknum: 6881280
Recieved packet data is: =S
Expected checksum: -13518978
Packet Corrupt!
Recieved checksum: 244527, seqnum: 1, acknum: 6881280
Recieved packet data is: =S
Expected checksum: -13518978
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 244527
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dfxV}Gn7>(Ov2g0W~Ho8
A sending packet with segnum 0 and checksum 236974 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 236974
Expected packet compared and confirmed
```

```
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 948354.1220, Layer 4 to 5 Message = dfxV}Gn7>(Ov2g0W~Ho8
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1127
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1127
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 236974 and data dfxV}Gn7>(Ov2q0W~Ho8.
B gettin' a packet with seqnum 0, and checksum 236974
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 236974
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ?xS.gBzU0?D|W2kF~Y4m
A sending packet with segnum 1 and checksum 248713 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 248713
Packet Corrupt!
Recieved checksum: 248713, seqnum: 1, acknum: 5701632
Recieved packet data is: ?xS.qBzU0?D|
Expected checksum: -11169254
Packet Corrupt!
Recieved checksum: 248713, seqnum: 1, acknum: 5701632
Recieved packet data is: ?xS.gBzU0?D|
Expected checksum: -11169254
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 2109
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is:
Expected checksum: 2109
A: no valid ACK, got instead with corruption. Resending packet with
checksum 248713 and data ?xS.gBzU0?D|W2kF~Y4m.
B gettin' a packet with seqnum 1, and checksum 248713
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 948423.1530, Layer 4 to 5 Message = 2xS.gBzU0?D|W2kF\sim Y4m
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
```

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Data being dequeued: A-wdP<)s`LA%o[H4~kWD
A sending packet with seqnum 0 and checksum 240733 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 240733
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   948441.1896, Layer 4 to 5 Message = A-wdP<)s`LA%o[H4~kWD
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: B?=;97531x-B)'%#~|zx
A sending packet with segnum 1 and checksum 242411 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 242411
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 948485.2287, Layer 4 to 5 Message = B?=;97531x-B)'%#~|zx
Setting comp seqnum from 1 to 0
A: 948852.9564, Layer 5 to 4 Message = CRbq#2BQap!1CP`o~0?0
A timed out. Sending packet with seqnum 1, and checksum 242411 again
A timed out. Sending packet with segnum 1, and checksum 242411 again
B gettin' a packet with segnum 1, and checksum 242411
Packet Corrupt!
Recieved checksum: 242411, seqnum: 1, acknum: 0
Recieved packet data is: B?=;97531x-B)x%#~|z'
Expected checksum: 225887
Packet Corrupt!
Recieved checksum: 242411, segnum: 1, acknum: 0
Recieved packet data is: B?=;97531x-B)x%#~|z'
Expected checksum: 225887
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 242411
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: CRbg#2BQap!1CP`o~0?0
A sending packet with segnum 0 and checksum 227535 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 227535
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 949481.0107, Layer 4 to 5 Message = CRbq#2BQap!1CP`o~0?0
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 227535 again
A timed out. Sending packet with segnum 0, and checksum 227535 again
B gettin' a packet with seqnum 0, and checksum 227535
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 227535
```

```
Not corrupt, but bad sequence number, sending next boi
A: 950777.0421, Layer 5 to 4 Message = De(Ij-No2St7XD<^~Bc&
A sending packet with seqnum 1 and checksum 225929
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 225929
Packet Corrupt!
Recieved checksum: 225929, seqnum: 1, acknum: 0
Recieved packet data is: ~e(Ij-No2St7XD<^DBc&
Expected checksum: 209225
Packet Corrupt!
Recieved checksum: 225929, seqnum: 1, acknum: 0
Recieved packet data is: ~e(Ij-No2St7XD<^DBc&
Expected checksum: 209225
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 3939
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: NA
Expected checksum: 3939
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 225929 and data De(Ij-No2St7XD<^~Bc&.
B gettin' a packet with segnum 1, and checksum 225929
Packet Corrupt!
Recieved checksum: 225929, seqnum: 1, acknum: 671088640
Recieved packet data is: De
Expected checksum: -1341951711
Packet Corrupt!
Recieved checksum: 225929, seqnum: 1, acknum: 671088640
Recieved packet data is: De
Expected checksum: -1341951711
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 225929 and data De(Ij-No2St7XD<^~Bc&. corrupted from
A to B, resending
A timed out. Sending packet with seqnum 1, and checksum 225929 again
B gettin' a packet with segnum 1, and checksum 225929
Packet Corrupt!
Recieved checksum: 225929, seqnum: 1, acknum: 0
Recieved packet data is: DeI(j-No2St7XD<^~Bc&
Expected checksum: 225698
Packet Corrupt!
Recieved checksum: 225929, seqnum: 1, acknum: 0
Recieved packet data is: DeI(j-No2St7XD<^~Bc&
Expected checksum: 225698
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 225929 and data De(Ij-No2St7XD<^~Bc&. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 225929
Expected packet compared and confirmed
```

```
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 951393.5805, Layer 4 to 5 Message = De(Ij-No2St7XD<^~Bc&
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
       952074.5563, Layer 5 to 4 Message = EwL \sim S(Zxb6i = pEEL \sim S(Zxb6i = pEE
A sending packet with segnum 0 and checksum 234779
 A sending packet to B
A: 952457.7368, Layer 5 to 4 Message = dfpV<#gM3w^D2n3F~eK1
A timed out. Sending packet with seqnum 0, and checksum 234779 again
B gettin' a packet with seqnum 0, and checksum 234779
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
      952596.1969, Layer 4 to 5 Message = EwL~S(Zxb6i=pEEL~S(Z
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dfpV<#gM3w^D2n3F~eK1
A sending packet with seqnum 1 and checksum 227968 from the queue
 A sending packet to B
B gettin' a packet with seqnum 1, and checksum 227968
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 952640.5954, Layer 4 to 5 Message = dfpV<\#gM3w^D2n3F\sim eK1
Setting comp segnum from 1 to 0
A: 952921.4022, Layer 5 to 4 Message = G>6.&{skcZRJB91}Gvnf
A timed out. Sending packet with segnum 1, and checksum 227968 again
B gettin' a packet with segnum 1, and checksum 227968
Packet Corrupt!
Recieved checksum: 227968, seqnum: 1, acknum: 0
Recieved packet data is: bgpV<#fM3w^D3n3F~eK1
Expected checksum: 228090
Packet Corrupt!
Recieved checksum: 227968, seqnum: 1, acknum: 0
Recieved packet data is: bgpV<#fM3w^D3n3F~eK1</pre>
Expected checksum: 228090
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 227968
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: G>6.&{skcZRJB91)Gvnf
A sending packet with seqnum 0 and checksum 240030 from the queue
 A sending packet to B
A timed out. Sending packet with segnum 0, and checksum 240030 again
B gettin' a packet with seqnum 0, and checksum 240030
Packet Corrupt!
Recieved checksum: 240030, seqnum: 0, acknum: 0
Recieved packet data is: G>6.&{skcZ9JBR1)Gvnf
Expected checksum: 241905
Packet Corrupt!
Recieved checksum: 240030, seqnum: 0, acknum: 0
```

```
Recieved packet data is: G>6.&{skcZ9JBR1)Gvnf
Expected checksum: 241905
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 19968, acknum: 0
Recieved packet data is:
Expected checksum: 60762
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 19968. last transmitted seqnum: 0
Last sent packet Checksum: 240030
Packet Corrupt!
Recieved checksum: 936, seqnum: 19968, acknum: 0
Recieved packet data is:
Expected checksum: 60762
A: no valid ACK, got instead with corruption. Resending packet with
checksum 240030 and data G>6.&{skcZRJB91)Gvnf.
B gettin' a packet with segnum 0, and checksum 240030
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   953672.9301, Layer 4 to 5 Message = G>6.&{skcZRJB91)Gvnf
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
A: 953782.4610, Layer 5 to 4 Message = HQZdmv!+4=GPYclu\sim H3<
A sending packet with seqnum 1 and checksum 235347
A sending packet to B
B gettin' a packet with segnum 1, and checksum 235347
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   953799.7518, Layer 4 to 5 Message = HQZdmv!+4=GPYclu~H3<
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
   954282.2330, Layer 5 to 4 Message = Id~; Vq.Id~; Vq.Id~; Iq
A sending packet with segnum 0 and checksum 253062
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 253062 again
A: 954975.0567, Layer 5 to 4 Message = JvEq?1:q5b0]+W&R~MyJ
A timed out. Sending packet with seqnum 0, and checksum 253062 again
B gettin' a packet with seqnum 32256, and checksum 253062
Packet Corrupt!
Recieved checksum: 253062, seqnum: 32256, acknum: 0
Recieved packet data is: Id
Expected checksum: 348696
Packet Corrupt!
Recieved checksum: 253062, segnum: 32256, acknum: 0
Recieved packet data is: Id
Expected checksum: 348696
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
```

```
Packet with checksum 253062 and data Id~; Vq.Id~; Vq.Id~; Iq. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 253054
Packet Corrupt!
Recieved checksum: 253054, seqnum: 0, acknum: 0
Recieved packet data is: Idt; Vq.Id~; Vq.Id~; Iq
Expected checksum: 250830
Packet Corrupt!
Recieved checksum: 253054, segnum: 0, acknum: 0
Recieved packet data is: Idt; Vg.Id~; Vg.Id~; Ig
Expected checksum: 250830
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 253062 and data Id~; Vq.Id~; Vq.Id~; Iq. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 253062
Packet Corrupt!
Recieved checksum: 253062, seqnum: 0, acknum: 0
Recieved packet data is: II~; Vq.Id~; Vq.Id~; dq
Expected checksum: 262701
Packet Corrupt!
Recieved checksum: 253062, segnum: 0, acknum: 0
Recieved packet data is: II~; Vq.Id~; Vq.Id~; dq
Expected checksum: 262701
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 253062 and data Id~; Vq.Id~; Vq.Id~; Iq. corrupted from
A to B, resending
B gettin' a packet with segnum 28928, and checksum 253062
Packet Corrupt!
Recieved checksum: 253062, segnum: 28928, acknum: 0
Recieved packet data is: Id~; Vq.Id~; Vq.Id~; I
Expected checksum: 294646
Packet Corrupt!
Recieved checksum: 253062, seqnum: 28928, acknum: 0
Recieved packet data is: Id~; Vq.Id~; Vq.Id~; I
Expected checksum: 294646
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 253062 and data Id~; Vq.Id~; Vq.Id~; Iq. corrupted from
A to B, resending
B gettin' a packet with seqnum 0, and checksum 253062
Packet Corrupt!
Recieved checksum: 253062, seqnum: 0, acknum: 25600
Recieved packet data is: Id~; Vq.Id~; Vq.I
Expected checksum: 176262
Packet Corrupt!
Recieved checksum: 253062, seqnum: 0, acknum: 25600
Recieved packet data is: Id~; Vq.Id~; Vq.I
Expected checksum: 176262
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 253062 again
B gettin' a packet with segnum 0, and checksum 253062
```

```
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data B: 955878.7357, Layer 4 to 5 Message = Id\sim;Vq.Id\sim;Vq.Id\sim;Iq
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, segnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 4049
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 4049
A: no valid ACK, got instead with corruption. Resending packet with
checksum 253062 and data Id~; Vq.Id~; Vq.Id~; Iq.
B gettin' a packet with seqnum 0, and checksum 253062
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 253062
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: JvEq?1:g5b0]+W&R~MyJ
A sending packet with segnum 1 and checksum 239595 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 239595
Packet Corrupt!
Recieved checksum: 239595, segnum: 1, acknum: 0
Recieved packet data is: Jvbq?l:q5E0]+W&R~MyJ
Expected checksum: 236956
Packet Corrupt!
Recieved checksum: 239595, seqnum: 1, acknum: 0
Recieved packet data is: Jvbq?l:g5E0]+W&R~MyJ
Expected checksum: 236956
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 239595 and data JvEq?l:g5b0]+W&R~MyJ. corrupted from
A to B, resending
B gettin' a packet with seqnum 69, and checksum 239595
Packet Corrupt!
Recieved checksum: 239595, seqnum: 69, acknum: 0
Recieved packet data is: Jv q?l:g5b0]+W&R~MyJ
Expected checksum: 239187
Packet Corrupt!
Recieved checksum: 239595, seqnum: 69, acknum: 0
Recieved packet data is: Jv q?l:g5b0]+W&R~MyJ
Expected checksum: 239187
Packet corrupt
Sending bACK a NAK!
A: 956003.3562, Layer 5 to 4 Message = K+iI)gG'eE%cC#aA~ >|
A timed out. Sending packet with seqnum 1, and checksum 239595 again
B gettin' a packet with segnum 1, and checksum 239595
Packet Corrupt!
Recieved checksum: 239595, seqnum: 1, acknum: 0
```

```
Recieved packet data is: vJEq?l:g5b0]+W&R~MyJ
Expected checksum: 239463
Packet Corrupt!
Recieved checksum: 239595, seqnum: 1, acknum: 0
Recieved packet data is: vJEq?l:g5b0]+W&R~MyJ
Expected checksum: 239463
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 239595 again
A timed out. Sending packet with segnum 1, and checksum 239595 again
B gettin' a packet with seqnum 1, and checksum 1979951083
Packet Corrupt!
Recieved checksum: 1979951083, seqnum: 1, acknum: 0
Recieved packet data is: J
Expected checksum: 239123
Packet Corrupt!
Recieved checksum: 1979951083, seqnum: 1, acknum: 0
Recieved packet data is: J
Expected checksum: 239123
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 239595 and data JvEq?l:q5b0]+W&R~MyJ. corrupted from
A to B, resending
B gettin' a packet with seqnum 1, and checksum 239595
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 957467.2838, Layer 4 to 5 Message = JvEq?1:g5b0]+W&R~MyJ
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 50331812, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 932
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 50331812, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 932
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 239595 and data JvEq?l:g5b0]+W&R~MyJ.
B gettin' a packet with segnum 1, and checksum 239595
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A: 957745.5423, Layer 5 to 4 Message = LLx~pbSE6(wiZL=x~pbS
A timed out. Sending packet with seqnum 1, and checksum 239595 again
B gettin' a packet with seqnum 1, and checksum 239595
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 239595
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: K+iI)gG'eE%cC#aA~ >|
A sending packet with segnum 0 and checksum 242629 from the queue
A sending packet to B
```

```
B gettin' a packet with seqnum 0, and checksum 242629
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
\ensuremath{\mathtt{B}} sending message up to layer 5 and updating newest recieved data
B: 957999.9914, Layer 4 to 5 Message = K+iI) gG'eE%cC#aA~ >|
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: LLx~pbSE6(wiZL=x~pbS
A sending packet with segnum 1 and checksum 271937 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 271937 again
B gettin' a packet with seqnum 1, and checksum 271937
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 958531.2738, Layer 4 to 5 Message = LLx~pbSE6(wiZL=x~pbS
Setting comp_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
   959330.4750, Layer 5 to 4 Message = dPMVY] `cfilo2ux{~$'*
A sending packet with segnum 0 and checksum 235666
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 235666
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 959333.1898, Layer 4 to 5 Message = dPMVY]`cfilo2ux{~$'*
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 66465, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 931
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 66465, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 931
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 235666 and data dPMVY]`cfilo2ux{~$'*.
B gettin' a packet with segnum 0, and checksum 235666
Packet Corrupt!
Recieved checksum: 235666, seqnum: 0, acknum: 0
Recieved packet data is: bPMVY]`cfi~o3ux{1$'*
Expected checksum: 232809
Packet Corrupt!
Recieved checksum: 235666, seqnum: 0, acknum: 0
Recieved packet data is: bPMVY]`cfi~o3ux{1$'*
Expected checksum: 232809
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 235666
Not corrupt, but bad sequence number, sending next boi
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```
A: 960520.7345, Layer 5 to 4 Message = NcwNCWl#7Lau, AUj~5J
A sending packet with seqnum 1 and checksum 240435
A sending packet to B
A timed out. Sending packet with segnum 1, and checksum 240435 again
B gettin' a packet with seqnum 1, and checksum 240435
Packet Corrupt!
Recieved checksum: 240435, seqnum: 1, acknum: 922746880
Recieved packet data is: NcwNCWl#
Expected checksum: -1845257780
Packet Corrupt!
Recieved checksum: 240435, seqnum: 1, acknum: 922746880
Recieved packet data is: NcwNCWl#
Expected checksum: -1845257780
Packet corrupt
Sending bACK a NAK!
   961381.4596, Layer 5 to 4 Message = Of=dORxAgxU{Dj3X~Gm5
A timed out. Sending packet with seqnum 1, and checksum 240435 again
B gettin' a packet with seqnum 1, and checksum 240435
Packet Corrupt!
Recieved checksum: 240435, segnum: 1, acknum: 0
Recieved packet data is: NcwNCWl#7La5, AUj~uJ
Expected checksum: 251955
Packet Corrupt!
Recieved checksum: 240435, segnum: 1, acknum: 0
Recieved packet data is: NcwNCWl#7La5, AUj~uJ
Expected checksum: 251955
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, segnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: -20821
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: -20821
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 240435 and data NcwNCWl#7Lau, AUj~5J .
A timed out. Sending packet with seqnum 1, and checksum 240435 again
A timed out. Sending packet with segnum 1, and checksum 240435 again
A: 962821.0321, Layer 5 to 4 Message = P*b;sP' 8pJ$[5mG~X2j
A timed out. Sending packet with seqnum 1, and checksum 240435 again
B gettin' a packet with seqnum 1, and checksum 240435
Packet Corrupt!
Recieved checksum: 240435, seqnum: 1, acknum: 0
Recieved packet data is: NUwNCWl#7Lau, Acj~5J
Expected checksum: 243529
Packet Corrupt!
Recieved checksum: 240435, seqnum: 1, acknum: 0
Recieved packet data is: NUwNCWl#7Lau, Acj~5J
Expected checksum: 243529
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 240435 and data NcwNCWl#7Lau, AUj~5J . corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 240435
```

```
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data B: 963101.0729, Layer 4 to 5 Message = NcwNCWl#7Lau,AUj\sim5J_
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 164, segnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1904
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 164, seqnum: 1, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1904
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 240435 and data NcwNCWl#7Lau, AUj~5J .
A timed out. Sending packet with seqnum 1, and checksum 240435 again
A: 963740.9319, Layer 5 to 4 Message = Q<(q]HQ|hS>*s J5~jUA
A timed out. Sending packet with segnum 1, and checksum 240435 again
A: 964116.0170, Layer 5 to 4 Message = ROLIFC?R9630-*'^{\text{xu}}
A timed out. Sending packet with seqnum 1, and checksum 240435 again
B gettin' a packet with seqnum 1, and checksum 240435
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 240435 again
B gettin' a packet with segnum 1, and checksum 240435
Packet Corrupt!
Recieved checksum: 240435, seqnum: 1, acknum: 0
Recieved packet data is: NAwNCWl#7Lau,cUj~5J
Expected checksum: 246963
Packet Corrupt!
Recieved checksum: 240435, segnum: 1, acknum: 0
Recieved packet data is: NAwNCWl#7Lau,cUj~5J
Expected checksum: 246963
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 240435
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Of=dORxAgxU{Dj3X~Gm5
A sending packet with seqnum 0 and checksum 252104 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 252104
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   965135.0072, Layer 4 to 5 Message = Of=dORxAgxU{Dj3X~Gm5
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: P*b;sP' 8pJ$[5mG~X2j
A sending packet with segnum 1 and checksum 239464 from the queue
A sending packet to B
A: 965546.5397, Layer 5 to 4 Message = Sbp~x=LZSw(6ESbp~x=L
A timed out. Sending packet with seqnum 1, and checksum 239464 again
```

```
B gettin' a packet with seqnum 1, and checksum 239464
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
\ensuremath{\mathtt{B}} sending message up to layer 5 and updating newest recieved data
B: 965643.5182, Layer 4 to 5 Message = P*b;sP' 8pJ$[5mG~X2j
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Q<(q]HQ|hS>*s J5~jUA
A sending packet with segnum 0 and checksum 245224 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 245224
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   965685.9416, Layer 4 to 5 Message = Q<(q]HQ|hS>*s J5~jUA
Setting comp seqnum from 0 to 1
A timed out. Sending packet with seqnum 0, and checksum 245224 again
B gettin' a packet with segnum 0, and checksum 245224
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 245224
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ROLIFC?R9630-*'$~{xu
A sending packet with seqnum 1 and checksum 237987 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 237987
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 966196.9170, Layer 4 to 5 Message = ROLIFC?R9630-*'$~{xu}
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Sbp~x=LZSw(6ESbp~x=L
A sending packet with segnum 0 and checksum 255707 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 255707
Packet Corrupt!
Recieved checksum: 255707, seqnum: 0, acknum: 54
Recieved packet data is: Sbp~x=LZSw(
Expected checksum: 247823
Packet Corrupt!
Recieved checksum: 255707, segnum: 0, acknum: 54
Recieved packet data is: Sbp~x=LZSw(
Expected checksum: 247823
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 255707 and data Sbp~x=LZSw(6ESbp~x=L. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 255707
Packet Corrupt!
```

```
Recieved checksum: 255707, seqnum: 0, acknum: 0
Recieved packet data is: Sbp~x=xZSw(6ESbp~L=L
Expected checksum: 243607
Packet Corrupt!
Recieved checksum: 255707, seqnum: 0, acknum: 0
Recieved packet data is: Sbp~x=xZSw(6ESbp~L=L
Expected checksum: 243607
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 168
Recieved packet data is: NAK
Expected checksum: 600
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 168
Recieved packet data is: NAK
Expected checksum: 600
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 255707 and data Sbp~x=LZSw (6ESbp~x=L.
A: 966427.2871, Layer 5 to 4 Message = dt6Vv8Xx:Tz<2|> ~Aa#
A timed out. Sending packet with seqnum 0, and checksum 255707 again
B gettin' a packet with seqnum 0, and checksum 255707
Packet Corrupt!
Recieved checksum: 255707, seqnum: 0, acknum: 0
Recieved packet data is: Sbp~x=LZS6(wESbp~x=L
Expected checksum: 258567
Packet Corrupt!
Recieved checksum: 255707, seqnum: 0, acknum: 0
Recieved packet data is: Sbp~x=LZS6(wESbp~x=L
Expected checksum: 258567
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 3666
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 936, segnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 3666
A: no valid ACK, got instead with corruption. Resending packet with
checksum 255707 and data Sbp~x=LZSw (6ESbp~x=L.
A: 966851.6280, Layer 5 to 4 Message = U)Z.~3e8j=UCtHyM~R&W
B gettin' a packet with seqnum 0, and checksum 255707
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 966869.5373, Layer 4 to 5 Message = Sbp~x=LZSw(6ESbp~x=L
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dt6Vv8Xx:Tz<2|> ~Aa#
A sending packet with segnum 1 and checksum 233325 from the queue
A sending packet to B
A: 967153.8456, Layer 5 to 4 Message = V;~dI.qV;~dV.qV;~dI.
```

```
A timed out. Sending packet with seqnum 1, and checksum 233325 again
B gettin' a packet with seqnum 15361, and checksum 233325
Packet Corrupt!
Recieved checksum: 233325, segnum: 15361, acknum: 0
Recieved packet data is: bt6Vv8Xx:Tz
Expected checksum: 270932
Packet Corrupt!
Recieved checksum: 233325, segnum: 15361, acknum: 0
Recieved packet data is: bt6Vv8Xx:Tz
Expected checksum: 270932
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: N
Expected checksum: 24144
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: N
Expected checksum: 24144
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 233325 and data dt6Vv8Xx:Tz<2|> ~Aa#.
A timed out. Sending packet with segnum 1, and checksum 233325 again
A timed out. Sending packet with seqnum 1, and checksum 233325 again
A timed out. Sending packet with seqnum 1, and checksum 233325 again
B gettin' a packet with segnum 1, and checksum 7180035
Packet Corrupt!
Recieved checksum: 7180035, seqnum: 1, acknum: 0
Recieved packet data is: bt6Vv8Xx:Tz<3|> ~Aa#
Expected checksum: 233492
Packet Corrupt!
Recieved checksum: 7180035, seqnum: 1, acknum: 0
Recieved packet data is: bt6Vv8Xx:Tz<3|> ~Aa#
Expected checksum: 233492
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 233325 and data dt6Vv8Xx:Tz<2|> ~Aa#. corrupted from
A to B, resending
A: 968940.8367, Layer 5 to 4 Message = WNE;2)}tkbXOW<3*~ulc
   969289.1832, Layer 5 to 4 Message = Xfiqy$,4<EMU^X3v~)19
A timed out. Sending packet with seqnum 1, and checksum 233325 again
A timed out. Sending packet with seqnum 1, and checksum 233325 again
A: 969949.1669, Layer 5 to 4 Message = YsxIc|8Rl(B[u1Ye~:Tn
A timed out. Sending packet with seqnum 1, and checksum 233325 again
B gettin' a packet with seqnum 1, and checksum 233325
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 970448.4611, Layer 4 to 5 Message = dt6Vv8Xx:Tz<2|> ~Aa#
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: AKC
Expected checksum: 892
```

Bad ACK or NAK determined by A

```
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: AKC
Expected checksum: 892
A: no valid ACK, got AKC instead with corruption. Resending packet with
checksum 233325 and data dt6Vv8Xx:Tz<2|> ~Aa#.
B gettin' a packet with seqnum 1, and checksum 233325
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 233325
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: U) Z. `3e8j=UCtHyM~R&W
A sending packet with seqnum 0 and checksum 241259 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 241259
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   970497.2366, Layer 4 to 5 Message = U)Z.`3e8j=UCtHyM~R&W
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1127
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, segnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1127
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 241259 and data U)Z.`3e8j=UCtHyM~R&W.
A: 970898.6381, Layer 5 to 4 Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE
A timed out. Sending packet with seqnum 0, and checksum 241259 again
B gettin' a packet with seqnum 1946157056, and checksum 241259
Packet Corrupt!
Recieved checksum: 241259, segnum: 1946157056, acknum: 0
Recieved packet data is: U) Z. `3e8j=UC
Expected checksum: 1543725527
Packet Corrupt!
Recieved checksum: 241259, segnum: 1946157056, acknum: 0
Recieved packet data is: U) Z. `3e8j=UC
Expected checksum: 1543725527
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 846, seqnum: 1, acknum: 0
Recieved packet data is: «AK
Expected checksum: 776
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 241259
Packet Corrupt!
Recieved checksum: 846, seqnum: 1, acknum: 0
```

```
Expected checksum: 776
A: no valid ACK, got «AK instead with corruption. Resending packet with
checksum 241259 and data U)Z.`3e8j=UCtHyM~R&W.
B gettin' a packet with seqnum 0, and checksum 241259
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 241259 again
A timed out. Sending packet with seqnum 0, and checksum 241259 again
A: 972302.5741, Layer 5 to 4 Message = d:wV5rQ0mL+h2&cB[^<y
A timed out. Sending packet with seqnum 0, and checksum 241259 again
B gettin' a packet with segnum 0, and checksum 241259
Packet Corrupt!
Recieved checksum: 241259, seqnum: 0, acknum: 0
Recieved packet data is: U) Z.=3e8j`UCtHyM~R&W
Expected checksum: 243884
Packet Corrupt!
Recieved checksum: 241259, seqnum: 0, acknum: 0
Recieved packet data is: U) Z.=3e8j`UCtHyM~R&W
Expected checksum: 243884
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 241259
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: V;~dI.qV;~dV.qV;~dI.
A sending packet with seqnum 1 and checksum 237310 from the queue
A sending packet to B
A timed out. Sending packet with segnum 1, and checksum 237310 again
A: 973420.9062, Layer 5 to 4 Message = ]M=.|m^N>x\}n O?0~]^P
A timed out. Sending packet with seqnum 1, and checksum 237310 again
B gettin' a packet with segnum 1, and checksum 237310
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 973601.8072, Layer 4 to 5 Message = V;~dI.qV;~dV.qV;~dI.
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 237310 again
B gettin' a packet with segnum 1, and checksum 237310
incorrect seqnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 237310
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: WNE;2)}tkbXOW<3*~ulc</pre>
A sending packet with segnum 0 and checksum 260253 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 260253
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 974142.8067, Layer 4 to 5 Message = WNE;2)}tkbXOW<3*~ulc
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
```

Recieved packet data is: «AK

```
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: Xfiqy$,4<EMU^X3v~)19
A sending packet with segnum 1 and checksum 211301 from the queue
A sending packet to B
A: 974502.2841, Layer 5 to 4 Message = ^`bdfhjlnprtvxz|~#^'
A timed out. Sending packet with seqnum 1, and checksum 211301 again
A timed out. Sending packet with segnum 1, and checksum 211301 again
A timed out. Sending packet with seqnum 1, and checksum 211301 again
A: 975670.2853, Layer 5 to 4 Message = _r(;Ocv,?Sgz0DWk\sim4H_ A timed out. Sending packet with seqnum 1, and checksum 211301 again
A timed out. Sending packet with seqnum 1, and checksum 211301 again
A timed out. Sending packet with seqnum 1, and checksum 211301 again
B gettin' a packet with seqnum 1, and checksum 211301
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 977165.8687, Layer 4 to 5 Message = Xfiqy$, 4 < EMU^X3v^2) 19
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: YsxIc|8Rl(B[u1Ye~:Tn
A sending packet with segnum 0 and checksum 256277 from the queue
A sending packet to B
A: 977205.2696, Layer 5 to 4 Message = `'Lq8^%Jo6[#Hm4Y~Fk2
A timed out. Sending packet with seqnum 0, and checksum 256277 again
A timed out. Sending packet with seqnum 0, and checksum 256277 again
A timed out. Sending packet with seqnum 0, and checksum 256277 again
B gettin' a packet with seqnum 0, and checksum 256277
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 978677.1868, Layer 4 to 5 Message = YsxIc|8R1(B[u1Ye~:Tn
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 4391841, seqnum: 0, acknum: 1
Recieved packet data is: A
Expected checksum: 661
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 4391841, seqnum: 0, acknum: 1
Recieved packet data is: A
Expected checksum: 661
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 256277 and data YsxIc|8Rl(B[u1Ye~:Tn.
B gettin' a packet with seqnum 0, and checksum 256277
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
A: 978704.4181, Layer 5 to 4 Message = aapI!X1hAwP) `8oH~W0g
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 256277
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: Z(S~LwEp=i6bxZ(Z~LwE
A sending packet with segnum 1 and checksum 257316 from the queue
A sending packet to B
```

```
B gettin' a packet with seqnum 1, and checksum 257316
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 978714.9951, Layer 4 to 5 Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE)
Setting comp segnum from 1 to 0
A: 978901.2107, Layer 5 to 4 Message = bfb~iS=(pZExwb36~iS=
A timed out. Sending packet with segnum 1, and checksum 257316 again
B gettin' a packet with segnum 1, and checksum 5958948
Packet Corrupt!
Recieved checksum: 5958948, seqnum: 1, acknum: 0
Recieved packet data is: Z(S~LwEp=i6bxZ(~LwE
Expected checksum: 235044
Packet Corrupt!
Recieved checksum: 5958948, seqnum: 1, acknum: 0
Recieved packet data is: Z(S~LwEp=i6bxZ(~LwE
Expected checksum: 235044
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 257316 again
B gettin' a packet with segnum 1, and checksum 257316
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 257316 again
B gettin' a packet with seqnum 1, and checksum 257316
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 257316
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d:wV5rQ0mL+h2&cB[^<y
A sending packet with segnum 0 and checksum 233664 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 233664
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 980220.0991, Layer 4 to 5 Message = d:wV5rQ0mL+h2&cB[^<y
Setting comp segnum from 0 to 1
A: 980656.0568, Layer 5 to 4 Message = d ZcRNJFB=952-)%~zvr
A timed out. Sending packet with seqnum 0, and checksum 233664 again
A: 980838.4810, Layer 5 to 4 Message = dq~.dIVdq~.;IVdq~.;I A: 980955.3667, Layer 5 to 4 Message = e&Ed%ec$Cb#Ba!A`~?_}
A timed out. Sending packet with seqnum 0, and checksum 233664 again
A: 981454.2398, Layer 5 to 4 Message = f8i;1>fBrEuHxK{N~Q$T
A timed out. Sending packet with seqnum 0, and checksum 233664 again
A timed out. Sending packet with seqnum 0, and checksum 233664 again
B gettin' a packet with seqnum 0, and checksum 233664
incorrect segnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 233664
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ]M=.|m^N>x}n O?0~]`P
```

```
A sending packet with seqnum 1 and checksum 257425 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 257425
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 982243.1261, Layer 4 to 5 Message = ]M=.|m^N>x\}n O?0~] P
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1050
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 257425
Packet Corrupt!
Recieved checksum: 932, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: 1050
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 257425 and data ]M=.|m^N>x\}n O?0~]^P.
B gettin' a packet with segnum 1, and checksum 257425
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 257425
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: ^`bdfhjlnprtvxz|~#^'
A sending packet with segnum 0 and checksum 271835 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 271835 again
B gettin' a packet with seqnum 2555904, and checksum 271835
Packet Corrupt!
Recieved checksum: 271835, seqnum: 2555904, acknum: 0
Recieved packet data is: ^`bdfhjlnprtvxz|~#^
Expected checksum: 7923947
Packet Corrupt!
Recieved checksum: 271835, seqnum: 2555904, acknum: 0
Recieved packet data is: ^`bdfhjlnprtvxz|~#^
Expected checksum: 7923947
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 271835 and data ^`bdfhjlnprtvxz|~#^'. corrupted from
A to B, resending
B gettin' a packet with segnum 0, and checksum 271835
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 982858.4764, Layer 4 to 5 Message = ^`bdfhjlnprtvxz|~#^'
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
```

```
Data being dequeued: r(;Ocv,?Sgz0DWk~4H
A sending packet with seqnum 1 and checksum 245013 from the queue
 A sending packet to B
B gettin' a packet with seqnum 1, and checksum 245013
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 982888.9963, Layer 4 to 5 Message = r(;Ocv,?Sgz0DWk~4H)
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: `'Lq8^%Jo6[#Hm4Y~Fk2
A sending packet with segnum 0 and checksum 230179 from the queue
 A sending packet to B
B gettin' a packet with segnum 0, and checksum 230179
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 982939.4993, Layer 4 to 5 Message = `'Lq8^%Jo6[#Hm4Y~Fk2
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, segnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1100
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 0
Recieved packet data is: ACK
Expected checksum: 1100
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 230179 and data `'Lq8^%Jo6[#Hm4Y~Fk2.
B gettin' a packet with seqnum 0, and checksum 230179
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 230179
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: aapI!X1hAwP) `8oH~WOg
A sending packet with segnum 1 and checksum 242123 from the queue
 A sending packet to B
B gettin' a packet with seqnum 1, and checksum 242123
Packet Corrupt!
Recieved checksum: 242123, seqnum: 1, acknum: 0
Recieved packet data is: aapI!X1hAwP) `~oH8W0g
Expected checksum: 235613
Packet Corrupt!
Recieved checksum: 242123, seqnum: 1, acknum: 0
Recieved packet data is: aapI!X1hAwP) `~oH8W0q
Expected checksum: 235613
Packet corrupt
Sending bACK a NAK!
A: 983257.3244, Layer 5 to 4 Message = gKxqU9\{gD(jN2tX<\sim cG+
A: 983388.1147, Layer 5 to 4 Message = h^SI>4*hi TJ?5+~tj
A timed out. Sending packet with segnum 1, and checksum 242123 again
A: 983580.9182, Layer 5 to 4 Message = ipw \sim (x6=EiSZbipw \sim (x
```

```
A: 983762.1565, Layer 5 to 4 Message = d%=Vo*C[txja24Mf~9Rk
A: 983834.5036, Layer 5 to 4 Message = kfb.X%OyFp<k3^3T~KuB
A timed out. Sending packet with segnum 1, and checksum 242123 again
B gettin' a packet with seqnum 1, and checksum 242123
Packet Corrupt!
Recieved checksum: 242123, seqnum: 1, acknum: 0
Recieved packet data is: aapI!X1hAwP)~8oH`W0g
Expected checksum: 238523
Packet Corrupt!
Recieved checksum: 242123, seqnum: 1, acknum: 0
Recieved packet data is: aapI!X1hAwP)~8oH`W0q
Expected checksum: 238523
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 242123 and data aapI!X1hAwP)`80H~W0g. corrupted from
A to B, resending
B gettin' a packet with segnum 1, and checksum 242123
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 984011.9761, Layer 4 to 5 Message = aapI!X1hAwP)`80H~W0g
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: bfb~iS=(pZExwb36~iS=
A sending packet with segnum 0 and checksum 247605 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 247605 again
B gettin' a packet with segnum 0, and checksum 247605
Packet Corrupt!
Recieved checksum: 247605, segnum: 0, acknum: 61
Recieved packet data is: bfb~iS
Expected checksum: 244494
Packet Corrupt!
Recieved checksum: 247605, seqnum: 0, acknum: 61
Recieved packet data is: bfb~iS
Expected checksum: 244494
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 247605 again
B gettin' a packet with segnum 0, and checksum 217909
Packet Corrupt!
Recieved checksum: 217909, seqnum: 0, acknum: 0
Recieved packet data is: bfb~iS=(pZExwb36~iÇ=
Expected checksum: 197065
Packet Corrupt!
Recieved checksum: 217909, seqnum: 0, acknum: 0
Recieved packet data is: bfb~iS=(pZExwb36~iÇ=
Expected checksum: 197065
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 247605 again
B gettin' a packet with segnum 0, and checksum 247605
Packet Corrupt!
Recieved checksum: 247605, seqnum: 0, acknum: 61
Recieved packet data is: bfb~iS
```

Expected checksum: 244494

```
Packet Corrupt!
Recieved checksum: 247605, seqnum: 0, acknum: 61
Recieved packet data is: bfb~iS
Expected checksum: 244494
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 247605 and data bfb~iS=(pZExwb36~iS=. corrupted from
A to B, resending
A: 985772.4938, Layer 5 to 4 Message = 1J(dB)[9uS1ml)eC^{-}:v
A timed out. Sending packet with seqnum 0, and checksum 247605 again
B gettin' a packet with seqnum 0, and checksum 247605
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 986039.8068, Layer 4 to 5 Message = bfb~iS=(pZExwb36~iS=
Setting comp seqnum from 0 to 1
A timed out. Sending packet with segnum 0, and checksum 247605 again
B gettin' a packet with segnum 0, and checksum 247605
Packet Corrupt!
Recieved checksum: 247605, seqnum: 0, acknum: 0
Recieved packet data is: 6fb~iS=(pZExwb3b~iS=
Expected checksum: 258825
Packet Corrupt!
Recieved checksum: 247605, seqnum: 0, acknum: 0
Recieved packet data is: 6fb~iS=(pZExwb3b~iS=
Expected checksum: 258825
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 247605
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d ZcRNJFB=952-)%~zvr
A sending packet with seqnum 1 and checksum 241846 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 241846
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 986573.9067, Layer 4 to 5 Message = d ZcRNJFB=952-)%~zvr
Setting comp_seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 241846 again
B gettin' a packet with seqnum 1, and checksum 241846
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A: 987273.2646, Layer 5 to 4 Message = m]L;+xhWG6&scmB1~n^M
A timed out. Sending packet with seqnum 1, and checksum 241846 again
A timed out. Sending packet with seqnum 1, and checksum 241846 again
B gettin' a packet with seqnum 1, and checksum 241846
Packet Corrupt!
Recieved checksum: 241846, seqnum: 1, acknum: 0
Recieved packet data is: b ZcRNJFB=953-)%rzv~
Expected checksum: 243345
Packet Corrupt!
Recieved checksum: 241846, seqnum: 1, acknum: 0
Recieved packet data is: b ZcRNJFB=953-)%rzv~
```

```
Expected checksum: 243345
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1908
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 241846
Packet Corrupt!
Recieved checksum: 168, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1908
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 241846 and data d ZcRNJFB=952-)%~zvr.
B gettin' a packet with segnum 1, and checksum 241846
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 241846
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: dq~.dIVdq~.;IVdq~.;I
A sending packet with segnum 0 and checksum 236340 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 236340
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 988152.1588, Layer 4 to 5 Message = dq~.dIVdq~.;IVdq~.;I
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: e&Ed%ec$Cb#Ba!A`~? }
A sending packet with segnum 1 and checksum 246265 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 246265
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 988174.5244, Layer 4 to 5 Message = e&Ed%ec$Cb#Ba!A`~?}
Setting comp seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: f8i;1>fBrEuHxK{N~Q$T}
A sending packet with seqnum 0 and checksum 248828 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 248828
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 988187.1193, Layer 4 to 5 Message = f8i;l>fBrEuHxK{N~Q$T}
Setting comp seqnum from 0 to 1
```

```
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: gKxqU9{gD(jN2tX<~cG+
A sending packet with seqnum 1 and checksum 231246 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 231246
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 988200.8961, Layer 4 to 5 Message = gKxqU9{gD(jN2tX<~cG+
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: h^SI>4*}hi TJ?5+~tj`
A sending packet with seqnum 0 and checksum 256764 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 256764 again
B gettin' a packet with seqnum 0, and checksum 256764
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 988712.0186, Layer 4 to 5 Message = h^SI>4}hi TJ?5+~tj`
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: ipw~(x6=EiSZbipw~(x6
A sending packet with segnum 1 and checksum 261628 from the queue
A sending packet to B
   988783.7370, Layer 5 to 4 Message = nopgrstuvwxyz\{n\}~!#$
A timed out. Sending packet with segnum 1, and checksum 261628 again
A timed out. Sending packet with seqnum 1, and checksum 261628 again
A timed out. Sending packet with seqnum 1, and checksum 261628 again
B gettin' a packet with seqnum 1, and checksum 261628
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
\ensuremath{\mathtt{B}} sending message up to layer 5 and updating newest recieved data
B: 990243.5382, Layer 4 to 5 Message = ipw~(x6=EiSZbipw~(x6
Setting comp segnum from 1 to 0
   990635.5878, Layer 5 to 4 Message = o$6I[n#5HZm!4GYo~3FX
A timed out. Sending packet with seqnum 1, and checksum 261628 again
B gettin' a packet with segnum 1, and checksum 261628
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 0. last transmitted segnum: 1
Last sent packet Checksum: 261628
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: d%=Vo*C[txja24Mf~9Rk
A sending packet with seqnum 0 and checksum 253043 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 253043
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 990764.1922, Layer 4 to 5 Message = d%=Vo*C[txja24Mf~9Rk
```

```
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: kfb.X%OyFp<k3^3T~KuB
A sending packet with seqnum 1 and checksum 246117 from the queue
A sending packet to B
B gettin' a packet with segnum 1, and checksum 246117
Packet Corrupt!
Recieved checksum: 246117, seqnum: 1, acknum: 0
Recieved packet data is: kfb.X%OyFp<33^kT~KuB
Expected checksum: 250653
Packet Corrupt!
Recieved checksum: 246117, seqnum: 1, acknum: 0
Recieved packet data is: kfb.X%OyFp<33^kT~KuB
Expected checksum: 250653
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1806
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1806
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 246117 and data kfb.X%OyFp<k3^3T~KuB.
A: 991172.8357, Layer 5 to 4 Message = p6Z~EixSw=b(Lp6ZpEix
A timed out. Sending packet with segnum 1, and checksum 246117 again
B gettin' a packet with segnum 1, and checksum 246117
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 991315.0988, Layer 4 to 5 Message = kfb.X%OyFp<k3^3T~KuB
Setting comp_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 7364
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: A
Expected checksum: 7364
A: no valid ACK, got A instead with corruption. Resending packet with
checksum 246117 and data kfb.X%OyFp<k3^3T~KuB.
A timed out. Sending packet with seqnum 1, and checksum 246117 again
B gettin' a packet with segnum 1, and checksum 246117
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A: 992185.1122, Layer 5 to 4 Message = dI\sim V.d; qI\sim V.2; qI\sim q.d
A timed out. Sending packet with seqnum 1, and checksum 246117 again
B gettin' a packet with segnum 1, and checksum 5816677
Packet Corrupt!
Recieved checksum: 5816677, seqnum: 1, acknum: 0
Recieved packet data is: kfb. %OyFp<k3^3T~KuB
```

```
Expected checksum: 243992
Packet Corrupt!
Recieved checksum: 5816677, segnum: 1, acknum: 0
Recieved packet data is: kfb. %OyFp<k3^3T~KuB
Expected checksum: 243992
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -2232
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 246117
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: -2232
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 246117 and data kfb.X%OyFp<k3^3T~KuB.
B gettin' a packet with seqnum 1, and checksum 246117
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 246117
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: lJ(dB)[9uS1ml)eC~]:v
A sending packet with segnum 0 and checksum 256795 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 256795
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 992405.3588, Layer 4 to 5 Message = 1J(dB)[9uS1ml)eC^{-}:v
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: m]L;+xhWG6&scmB1~n^M
A sending packet with segnum 1 and checksum 252680 from the queue
A sending packet to B
B gettin' a packet with seqnum 2490369, and checksum 252680
Packet Corrupt!
Recieved checksum: 252680, segnum: 2490369, acknum: 0
Recieved packet data is: m]L;+xhWG6
Expected checksum: 7719186
Packet Corrupt!
Recieved checksum: 252680, segnum: 2490369, acknum: 0
Recieved packet data is: m]L;+xhWG6
Expected checksum: 7719186
Packet corrupt
Sending bACK a NAK!
A: 992838.8140, Layer 5 to 4 Message = r[E.u H1xbK4{eN7~hr:
A timed out. Sending packet with seqnum 1, and checksum 252680 again
B gettin' a packet with segnum 1, and checksum 252680
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```
Packet Corrupt!
Recieved checksum: 252680, seqnum: 1, acknum: 0
Recieved packet data is: m]L;+xMWG6&scmB1~n^h
Expected checksum: 262157
Packet Corrupt!
Recieved checksum: 252680, seqnum: 1, acknum: 0
Recieved packet data is: m]L;+xMWG6&scmB1~n^h
Expected checksum: 262157
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 256
Recieved packet data is: NAK
Expected checksum: 424
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 252680
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 256
Recieved packet data is: NAK
Expected checksum: 424
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 252680 and data m]L;+xhWG6&scmB1~n^M.
B gettin' a packet with seqnum 1, and checksum 252680
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 992968.4966, Layer 4 to 5 Message = m]L;+xhWG6&scmB1~n^M
Setting comp seqnum from 1 to 0
A timed out. Sending packet with segnum 1, and checksum 252680 again
A timed out. Sending packet with segnum 1, and checksum 252680 again
A timed out. Sending packet with seqnum 1, and checksum 252680 again
B gettin' a packet with segnum 1, and checksum 252680
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A: 994456.5189, Layer 5 to 4 Message = snid_YTOJE?:50+&~yts
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 27336
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last_transmitted seqnum: 1
Last sent packet Checksum: 252680
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is: NA
Expected checksum: 27336
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 252680 and data m]L;+xhWG6&scmB1~n^M.
   994752.7380, Layer 5 to 4 Message = tfx; HTamy (4AMY3r~-9F
A timed out. Sending packet with seqnum 1, and checksum 252680 again
A: 995154.8544, Layer 5 to 4 Message = uuSq10m-Ki)Ge%Ca\sim ]z
A timed out. Sending packet with seqnum 1, and checksum 252680 again
B gettin' a packet with segnum 1, and checksum 252680
incorrect seqnum
```

expected segnum 0, got segnum 1Sending bACK a NAK!

```
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 252680
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: nopqrstuvwxyz{n}~!#$
A sending packet with segnum 0 and checksum 252474 from the queue
A sending packet to B
A timed out. Sending packet with segnum 0, and checksum 252474 again
B gettin' a packet with segnum 0, and checksum 252474
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 995991.3293, Layer 4 to 5 Message = nopqrstuvwxyz{n}~!#$
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: o$6I[n#5HZm!4GYo~3FX
A sending packet with segnum 1 and checksum 230503 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 230503
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 996003.7207, Layer 4 to 5 Message = o$6I[n#5Hzm!4GYo~3FX
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: AC
Expected checksum: 17132
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 932, seqnum: 1, acknum: 1
Recieved packet data is: AC
Expected checksum: 17132
A: no valid ACK, got AC instead with corruption. Resending packet with
checksum 230503 and data o$6I[n#5HZm!4GYo~3FX.
B gettin' a packet with segnum 1, and checksum 4818023
Packet Corrupt!
Recieved checksum: 4818023, seqnum: 1, acknum: 0
Recieved packet data is: o$6 [n#5HZm!4GYo~3FX
Expected checksum: 229383
Packet Corrupt!
Recieved checksum: 4818023, seqnum: 1, acknum: 0
Recieved packet data is: o$6 [n#5HZm!4GYo~3FX
Expected checksum: 229383
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 196776, segnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 936
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 230503
```

```
Packet Corrupt!
Recieved checksum: 196776, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 936
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 230503 and data o$6I[n#5HZm!4GYo~3FX.
   996372.1478, Layer 5 to 4 Message = vHvIxJyKzL\{M|N\}O\sim P!Q
A timed out. Sending packet with segnum 1, and checksum 230503 again
A: 996566.4908, Layer 5 to 4 Message = wZ=wbE(iLxpS6wZ=~bE(
A timed out. Sending packet with segnum 1, and checksum 230503 again
B gettin' a packet with segnum 1, and checksum 230503
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 230503 again
B gettin' a packet with seqnum 1, and checksum 230503
incorrect segnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 230503
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: p6Z~EixSw=b(Lp6ZpEix
A sending packet with seqnum 0 and checksum 263746 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 263746
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
   997559.5370, Layer 4 to 5 Message = p6Z~EixSw=b(Lp6ZpEix
B:
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: dI~V.d;qI~V.2;qI~q.d
A sending packet with seqnum 1 and checksum 247003 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 247003
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 997589.1360, Layer 4 to 5 Message = dI~V.d;qI~V.2;qI~q.d
Setting comp segnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: r[E.u HlxbK4{eN7~hr:
A sending packet with segnum 0 and checksum 257527 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 257527
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 997610.3232, Layer 4 to 5 Message = r[E.u H1xbK4{eN7~hr:
Setting comp segnum from 0 to 1
   997718.2484, Layer 5 to 4 Message = dmbVx?4) {peY2C7,~sh]
A timed out. Sending packet with segnum 0, and checksum 257527 again
B gettin' a packet with segnum 0, and checksum 257527
incorrect seqnum
```

```
expected segnum 1, got segnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: N
Expected checksum: 13419
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 257527
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: N
Expected checksum: 13419
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 257527 and data r[E.u H1xbK4{eN7~hr:.
A timed out. Sending packet with seqnum 0, and checksum 257527 again
A: 998700.1915, Layer 5 to 4 Message = y!(.4yAGMSY`flrx~'-3
A timed out. Sending packet with seqnum 0, and checksum 257527 again
A: 999263.4332, Layer 5 to 4 Message = z4Ld{5ze|6Nf}70g~8Ph
A timed out. Sending packet with seqnum 0, and checksum 257527 again
B gettin' a packet with seqnum 0, and checksum 257527
Packet Corrupt!
Recieved checksum: 257527, segnum: 0, acknum: 0
Recieved packet data is: r[E.u H1xbKe{4N7~hr:
Expected checksum: 254979
Packet Corrupt!
Recieved checksum: 257527, seqnum: 0, acknum: 0
Recieved packet data is: r[E.u H1xbKe{4N7~hr:
Expected checksum: 254979
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1527
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 257527
Packet Corrupt!
Recieved checksum: 171, seqnum: 1, acknum: 0
Recieved packet data is: NAK
Expected checksum: 1527
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 257527 and data r[E.u H1xbK4{eN7~hr:.
B gettin' a packet with seqnum 0, and checksum 257527
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 257527
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: snid YTOJE?:50+&~yts
A sending packet with segnum 1 and checksum 247908 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 247908
```

```
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data B: 999672.6915, Layer 4 to 5 Message = snid_YTOJE?:50+&\sim yts
Setting comp seqnum from 1 to 0
A timed out. Sending packet with seqnum 1, and checksum 247908 again
B gettin' a packet with seqnum 1, and checksum 247908
incorrect seanum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 7176
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 247908
Packet Corrupt!
Recieved checksum: 936, seqnum: 0, acknum: 0
Recieved packet data is:
Expected checksum: 7176
A: no valid ACK, got instead with corruption. Resending packet with
checksum 247908 and data snid YTOJE?:50+&~yts.
B gettin' a packet with segnum 1, and checksum 247908
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
A timed out. Sending packet with segnum 1, and checksum 247908 again
A: 1000659.6859, Layer 5 to 4 Message = {Gp;e0Y{NwCl7a,U~Js>}
A timed out. Sending packet with seqnum 1, and checksum 247908 again
B gettin' a packet with segnum 1, and checksum 247908
Packet Corrupt!
Recieved checksum: 247908, segnum: 1, acknum: 0
Recieved packet data is: snid YTOJ&?:50+E~yts
Expected checksum: 252744
Packet Corrupt!
Recieved checksum: 247908, seqnum: 1, acknum: 0
Recieved packet data is: snid YTOJ&?:50+E~yts
Expected checksum: 252744
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 247908
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: tfx;HTamy(4AMY3r~-9F
A sending packet with segnum 0 and checksum 219164 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 219164
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 1001195.1670, Layer 4 to 5 Message = tfx; HTamy (4AMY3r~-9F
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 1
Recieved packet data is: ACK
```

```
Expected checksum: -20446
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 768, seqnum: 0, acknum: 1
Recieved packet data is: ACK
Expected checksum: -20446
A: no valid ACK, got ACK instead with corruption. Resending packet with
checksum 219164 and data tfx; HTamy (4AMY3r~-9F.
A: 1001546.2151, Layer 5 to 4 Message = |Y6qN+fC|Z7rO,qD^{-}[8s]
A timed out. Sending packet with segnum 0, and checksum 219164 again
B gettin' a packet with segnum 0, and checksum 219164
incorrect seqnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 219164 again
B gettin' a packet with seqnum 0, and checksum 219164
Packet Corrupt!
Recieved checksum: 219164, seqnum: 0, acknum: 0
Recieved packet data is: tfx;HTamy(4AMY3rF-9~
Expected checksum: 225380
Packet Corrupt!
Recieved checksum: 219164, seqnum: 0, acknum: 0
Recieved packet data is: tfx; HTamy (4AMY3rF-9~
Expected checksum: 225380
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 1308622848
Recieved packet data is:
Expected checksum: 1677722461
Bad ACK or NAK determined by A
ACK seg number and last transmitted segnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 219164
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 1308622848
Recieved packet data is:
Expected checksum: 1677722461
A: no valid ACK, got instead with corruption. Resending packet with
checksum 219164 and data tfx; HTamy (4AMY3r~-9F.
B gettin' a packet with segnum 0, and checksum 219164
incorrect segnum
expected seqnum 1, got seqnum OSending bACK a NAK!
A: 1002419.3021, Layer 5 to 4 Message = fZI7&raO, xgU32\sim m[J]
A timed out. Sending packet with segnum 0, and checksum 219164 again
B gettin' a packet with seqnum 0, and checksum 219164
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last_transmitted seqnum: 0
Last sent packet Checksum: 219164
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: uuSq10m-Ki)Ge%Ca~>]z
A sending packet with segnum 1 and checksum 250219 from the queue
A sending packet to B
B gettin' a packet with segnum 16777216, and checksum 250219
Packet Corrupt!
Recieved checksum: 250219, segnum: 16777216, acknum: 0
```

```
Recieved packet data is: uuSq10m-Ki)Ge%Ca~>]z
Expected checksum: 50581864
Packet Corrupt!
Recieved checksum: 250219, seqnum: 16777216, acknum: 0
Recieved packet data is: uuSq10m-Ki)Ge%Ca~>]z
Expected checksum: 50581864
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, seqnum: 4259841, acknum: 0
Recieved packet data is: N
Expected checksum: 12780199
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 4259841. last transmitted segnum: 1
Last sent packet Checksum: 250219
Packet Corrupt!
Recieved checksum: 939, seqnum: 4259841, acknum: 0
Recieved packet data is: N
Expected checksum: 12780199
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 250219 and data uuSq10m-Ki)Ge%Ca~>]z.
B gettin' a packet with segnum 1, and checksum 250219
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 1002816.7460, Layer 4 to 5 Message = uuSq10m-Ki)Ge%Ca~>]z
Setting comp\_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: vHvIxJyKzL{M|N}O~P!Q
A sending packet with segnum 0 and checksum 253645 from the queue
A sending packet to B
B gettin' a packet with seqnum 0, and checksum 253645
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 1002847.8143, Layer 4 to 5 Message = vHvIxJyKzL{M|N}O\simP!Q
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: wZ=wbE(iLxpS6wZ=~bE(
A sending packet with seqnum 1 and checksum 237523 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 196819
Packet Corrupt!
Recieved checksum: 196819, segnum: 1, acknum: 159
Recieved packet data is: wZ=wbE(iLxpS6wZ=~bE(
Expected checksum: 237205
Packet Corrupt!
Recieved checksum: 196819, seqnum: 1, acknum: 159
Recieved packet data is: wZ=wbE(iLxpS6wZ=~bE(
Expected checksum: 237205
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
```

```
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 961
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 237523
Packet Corrupt!
Recieved checksum: 939, seqnum: 0, acknum: 0
Recieved packet data is: NAK
Expected checksum: 961
A: no valid ACK, got NAK instead with corruption. Resending packet with
checksum 237523 and data wZ=wbE(iLxpS6wZ=~bE(.
A timed out. Sending packet with seqnum 1, and checksum 237523 again
B gettin' a packet with seqnum 1, and checksum 237523
Packet Corrupt!
Recieved checksum: 237523, seqnum: 1, acknum: 0
Recieved packet data is: wZ=wbE=iLxpS6wZ(~bE(
Expected checksum: 233176
Packet Corrupt!
Recieved checksum: 237523, seqnum: 1, acknum: 0
Recieved packet data is: wZ=wbE=iLxpS6wZ(~bE(
Expected checksum: 233176
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 237523 again
A timed out. Sending packet with seqnum 1, and checksum 237523 again
B gettin' a packet with seqnum 1, and checksum 237523
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
   1004448.7670, Layer 4 to 5 Message = wZ=wbE(iLxpS6wZ=~bE(
Setting comp_seqnum from 1 to 0
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the gueue!
Data being dequeued: dmbVx?4) {peY2C7,~sh]
A sending packet with seqnum 0 and checksum 252996 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 0, and checksum 252996 again
B gettin' a packet with segnum 0, and checksum 252996
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 1004968.4128, Layer 4 to 5 Message = dmbVx?4) {peY2C7,~sh]
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: y!(.4yAGMSY`flrx~'-3
A sending packet with segnum 1 and checksum 234261 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 234261
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 1004976.3963, Layer 4 to 5 Message = y!(.4yAGMSY`flrx~'-3
Setting comp segnum from 1 to 0
A: 1004996.4366, Layer 5 to 4 Message = !3EVhy->Pbs'2J[m~2DU
```

```
A timed out. Sending packet with seqnum 1, and checksum 234261 again
B gettin' a packet with seqnum 1, and checksum 234261
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 234261 again
A: 1006453.5437, Layer 5 to 4 Message = ##i.Qt9]!Eh-Ps8[~Dg,
A timed out. Sending packet with seqnum 1, and checksum 234261 again
A timed out. Sending packet with segnum 1, and checksum 234261 again
B gettin' a packet with segnum 1, and checksum 234261
incorrect segnum
expected segnum 0, got segnum 1Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 234261 again
B gettin' a packet with segnum 1, and checksum 234261
incorrect seqnum
expected seqnum 0, got seqnum 1Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 0. last transmitted seqnum: 1
Last sent packet Checksum: 234261
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: z4Ld{5ze|6Nf}70g~8Ph
A sending packet with seqnum 0 and checksum 260618 from the queue
A sending packet to B
B gettin' a packet with segnum 0, and checksum 260618
Packet Corrupt!
Recieved checksum: 260618, seqnum: 0, acknum: 0
Recieved packet data is: z4Ld{5ze|6NfO7}g~8Ph
Expected checksum: 263194
Packet Corrupt!
Recieved checksum: 260618, segnum: 0, acknum: 0
Recieved packet data is: z4Ld{5ze|6Nf07}q~8Ph
Expected checksum: 263194
Packet corrupt
Sending bACK a NAK!
   1007491.5713, Layer 5 to 4 Message = $X$d:oFzQ(]3h>sJ~U,a
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 936, seqnum: 75, acknum: 0
Recieved packet data is: NA
Expected checksum: 486
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 75. last transmitted segnum: 0
Last sent packet Checksum: 260618
Packet Corrupt!
Recieved checksum: 936, seqnum: 75, acknum: 0
Recieved packet data is: NA
Expected checksum: 486
A: no valid ACK, got NA instead with corruption. Resending packet with
checksum 260618 and data z4Ld{5ze|6Nf}70g~8Ph.
B gettin' a packet with segnum 0, and checksum 260618
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 1007506.3677, Layer 4 to 5 Message = z4Ld{5ze|6Nf}70g~8Ph
Setting comp segnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
```

```
Data being dequeued: {Gp;e0Y{NwCl7a,U~Js>
A sending packet with seqnum 1 and checksum 247320 from the queue
A sending packet to B
B gettin' a packet with seqnum 1, and checksum 247320
Packet Corrupt!
Recieved checksum: 247320, seqnum: 1, acknum: 0
Recieved packet data is: {Gp;e0U{NwCl7a,Y~Js>
Expected checksum: 248148
Packet Corrupt!
Recieved checksum: 247320, segnum: 1, acknum: 0
Recieved packet data is: {Gp;e0U{NwCl7a,Y~Js>
Expected checksum: 248148
Packet corrupt
Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
Packet with checksum 247320 and data {Gp;e0Y{NwCl7a,U~Js>. corrupted from
A to B, resending
A timed out. Sending packet with seqnum 1, and checksum 247320 again
A timed out. Sending packet with segnum 1, and checksum 247320 again
B gettin' a packet with segnum 1, and checksum 247320
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 1008544.0367, Layer 4 to 5 Message = {Gp;e0Y{NwCl7a,U~Js>}
Setting comp seqnum from 1 to 0
Printing the contents of the Simulation Event Q
Event Time = 1009033.208 A: Timer
Event Time = 1009077.406 A: LAYER 5
Recieved an ACK/NAK...Checking response...
Got an ACK snACK that smiles bACK!
Sending next data from the queue!
Data being dequeued: |Y6qN+fC|Z7rO, gD~[8s
A sending packet with segnum 0 and checksum 252268 from the queue
A sending packet to B
Printing the contents of the Simulation Event Q
Event Time = 1009072.639 A: Timer
Event Time = 1009077.406 A: LAYER 5
B gettin' a packet with seqnum 0, and checksum 252268
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 929
B sending message up to layer 5 and updating newest recieved data
B: 1008589.2763, Layer 4 to 5 Message = |Y6qN+fC|Z7rO,gD^{-}[8s]
Setting comp seqnum from 0 to 1
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 26864
Bad ACK or NAK determined by A
Packet Corrupt!
Recieved checksum: 929, seqnum: 0, acknum: 1
Recieved packet data is:
Expected checksum: 26864
A: no valid ACK, got instead with corruption. Resending packet with
```

checksum 252268 and data |Y6qN+fC|Z7rO,qD~[8s.

```
B gettin' a packet with seqnum 0, and checksum 219500
Packet Corrupt!
Recieved checksum: 219500, seqnum: 0, acknum: 0
Recieved packet data is: | D6qN+fC|Z7rO, qD~[8s
Expected checksum: 251756
Packet Corrupt!
Recieved checksum: 219500, seqnum: 0, acknum: 0
Recieved packet data is: | D6qN+fC|Z7rO, qD~[8s]
Expected checksum: 251756
Packet corrupt
Sending bACK a NAK!
A: 1009077.4063, Layer 5 to 4 Message = %kS%$jR:#iQ9!hP8~g07
A timed out. Sending packet with seqnum 0, and checksum 252268 again
B gettin' a packet with seqnum 0, and checksum 252268
Packet Corrupt!
Recieved checksum: 252268, segnum: 0, acknum: 2883584
Recieved packet data is: |Y6qN+fC|Z7r0
Expected checksum: -5523524
Packet Corrupt!
Recieved checksum: 252268, seqnum: 0, acknum: 2883584
Recieved packet data is: |Y6qN+fC|Z7rO
Expected checksum: -5523524
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 252268 again
B gettin' a packet with segnum 0, and checksum 252268
incorrect seqnum
expected seqnum 1, got seqnum OSending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Packet Corrupt!
Recieved checksum: 939, segnum: 1, acknum: 0
Recieved packet data is: N
Expected checksum: 1719
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's seqnum: 1. last transmitted seqnum: 0
Last sent packet Checksum: 252268
Packet Corrupt!
Recieved checksum: 939, seqnum: 1, acknum: 0
Recieved packet data is: N
Expected checksum: 1719
A: no valid ACK, got N instead with corruption. Resending packet with
checksum 252268 and data |Y6qN+fC|Z7rO,gD~[8s.
A timed out. Sending packet with seqnum 0, and checksum 252268 again
A timed out. Sending packet with seqnum 0, and checksum 252268 again
A timed out. Sending packet with seqnum 0, and checksum 252268 again
A timed out. Sending packet with seqnum 0, and checksum 252268 again
A timed out. Sending packet with seqnum 0, and checksum 252268 again
A timed out. Sending packet with seqnum 0, and checksum 252268 again
B gettin' a packet with seqnum 0, and checksum 252268
incorrect seqnum
expected segnum 1, got segnum OSending bACK a NAK!
A timed out. Sending packet with segnum 0, and checksum 252268 again
B gettin' a packet with seqnum 0, and checksum 252268
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
A timed out. Sending packet with seqnum 0, and checksum 252268 again
B gettin' a packet with segnum 0, and checksum 252268
incorrect seqnum
```

expected segnum 1, got segnum OSending bACK a NAK!

```
A timed out. Sending packet with seqnum 0, and checksum 252268 again
B gettin' a packet with seqnum 0, and checksum 252268
incorrect segnum
expected seqnum 1, got seqnum 0Sending bACK a NAK!
Recieved an ACK/NAK...Checking response...
Bad ACK or NAK determined by A
ACK seq number and last transmitted seqnum don't match!
packet's segnum: 1. last transmitted segnum: 0
Last sent packet Checksum: 252268
Not corrupt, but bad sequence number, sending next boi
Data being dequeued: }fZI7&raO},xgU32~m[J
A sending packet with segnum 1 and checksum 251000 from the queue
A sending packet to B
A timed out. Sending packet with seqnum 1, and checksum 251000 again
B gettin' a packet with seqnum 1, and checksum 251000
Packet Corrupt!
Recieved checksum: 251000, seqnum: 1, acknum: 0
Recieved packet data is: }fZI7&raO},2gU3x~m[J
Expected checksum: 258840
Packet Corrupt!
Recieved checksum: 251000, seqnum: 1, acknum: 0
Recieved packet data is: }fZI7&raO},2gU3x~m[J
Expected checksum: 258840
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 251000 again
B gettin' a packet with seqnum 1, and checksum 50386040
Packet Corrupt!
Recieved checksum: 50386040, seqnum: 1, acknum: 0
Recieved packet data is: }fZI7&raO},xgU32~m[J
Expected checksum: 251000
Packet Corrupt!
Recieved checksum: 50386040, segnum: 1, acknum: 0
Recieved packet data is: }fZI7&raO},xgU32~m[J
Expected checksum: 251000
Packet corrupt
Sending bACK a NAK!
A timed out. Sending packet with seqnum 1, and checksum 251000 again
B gettin' a packet with seqnum 1, and checksum 251000
Expected packet compared and confirmed
B Sending bACK an ACK with checksum: 932
B sending message up to layer 5 and updating newest recieved data
B: 1015666.1613, Layer 4 to 5 Message = }fZI7&raO},xgU32~m[J
Setting comp segnum from 1 to 0
Simulator terminated at time 1015690.502355
 after receiving 1000 msgs at layer5
Simulator Analysis:
  Number of messages sent from 5 to 4: 1004
  Number of messages received at Layer 5, side A: 0
  Number of messages received at Layer 5, side B: 1000
  Number of messages incorrectly received at layer 5: 0
  Number of packets entering the network: 5867
  Average number of packets already in network:
                                                    0.000
  Number of packets that the network lost: 1708
  Number of packets that the network corrupted: 1235
  Number of packets that the network put out of order: 1327
```

Enter the number of messages to simulate: Packet loss probability [enter number between 0.0 and 1.0]: Packet corruption probability [0.0 for no corruption]: Packet out-of-order probability [0.0 for no out-of-order]: Average time between messages from sender's layer5 [> 0.0]: Enter Level of tracing desired: Do you want actions randomized: (1 = yes, 0 = no)? Do you want Bidirectional: (1 = yes, 0 = no)? Input parameters: Number of Messages = 2000 Lost Packet Prob. = 0.900 Corrupt Packet Prob. = 0.900 Out Of Order Prob. = 0.900 Ave. time between messages = 10.00 Trace level = 0 Randomize = 1 Bi-directional = 0

```
17.1216,
                       Layer 5 to 4 Message = !fEVhy->Pbs'2J3m~2DU
Α:
A:
          19.0966,
                      Layer 5 to 4
                                         Message = ##i.Qt9]!Eh-Ps8[~Dg,
A:
          29.5842,
                      Layer 5 to 4 Message = $X$d:oFzQ(]3h>sJ~U,a
                      Layer 5 to 4
          33.9898,
                                         Message = %kS%$jR:#iQ9!hP8~g07
A:
                      38.9818,
A:
          39.9060, Layer 5 to 4
                                         Message = '2=IT'kv$x:FQ]hs\sim,7C
A:
A:
          52.2537,
                      Layer 5 to 4
                                          Message = (Eb \sim = Z (6SpxLi (Eb \sim = Zw))
          59.5756,
                      Layer 5 to 4
                                         Message = dW(V'U\&) %S$R2Q!P~O}N
Α:
          78.8638, Layer 5 to 4
                                         Message = *jL.nP2r*6vX:z]>~aC%
A:
          96.1534,
                      Layer 5 to 4
                                         Message = +fpdWK>2&+k RF3-~rfY
A:
         101.7394,
                      Layer 5 to 4
                                         Message = ,16;AFKPUZ,ejoty~&+0
A:
A:
         106.5409,
                      Layer 5 to 4
                                         Message = -DZq*AWn'=T-$:Qh~7Ne
         124.8111,
                      Layer 5 to 4
                                         Message = .V~Iq;d.V~Iq.d.V~Iq;
A:
                      Layer 5 to 4
                                          Message = xiE~Z6pL(b=wSxiE~Z6p
A:
         132.6903,
         137.9555,
                      Layer 5 to 4
                                          Message = d\{iVD1|jWE2\}2X03\sim1YG
A:
A:
         150.7329,
                      Layer 5 to 4
                                          Message = 10x.-,+*)('&%$#1~}|{
         160.6352,
                      Layer 5 to 4
                                          Message = 2CSdt'7HXiy, <M^n21BR</pre>
A:
                                          Message = 3Uw; ^!Df*Ln2Tv:]~3e)
A:
         168.1562, Layer 5 to 4
A:
         173.1320, Layer 5 to 4
                                          Message = 4f=qGzP&Yxc8lB3K~T4^
                                          Message = 5zbIOu]D+pW>&kR9~fM5
A:
         181.0908,
                      Layer 5 to 4
                                          Message = 6x(~wpibZSLE=6x(~wpi
A:
         185.8172,
                      Layer 5 to 4
         202.7296,
                      Layer 5 to 4
                                          Message = d7LVaku!, 6AK2`jt~+5?
A:
A:
         207.8306,
                      Layer 5 to 4
                                          Message = 8T8.Jf$?[w5Qm+Gc~<Xt
                      Layer 5 to 4
A:
         221.2099,
                                          Message = 9g693a0^-Z*W'T$Q~N\{K
A:
         227.1205,
                      Layer 5 to 4
                                         Message = :yZ;:[<{]=|^>}_?~`A!
         246.7337,
                      Layer 5 to 4 Message = ;.~qd;I;.~qdVI;.~qdV
A:
A:
         265.8003,
                      Layer 5 to 4
                                         Message = <AEIMQ<Y^bfjnrvz~%)-
         278.1834,
                      Layer 5 to 4
                                         Message = = fi \sim 6Lb = xEZp (=3i \sim 6Lb)
A:
         281.1135, Layer 5 to 4
                                          Message = dfxV}Gn7>(Ov2g0W~Ho8
A:
         286.4929, Layer 5 to 4
                                          Message = ?xS.gBzU0?D|W2kF~Y4m
A:
                       Layer 5 to 4
                                          Message = A-wdP<)s`LA%o[H4~kWD</pre>
A:
         299.1601,
         316.4869,
                       Layer 5 to 4
                                          Message = B?=;97531x-B)'%\#\sim|zx
A:
A:
         327.8377,
                      Layer 5 to 4
                                          Message = CRbq#2BQap!1CP`o~0?0
         340.1357,
                      Layer 5 to 4
                                          Message = De(Ij-No2St7XD<^{Bc}
A:
A:
         352.2110,
                      Layer 5 to 4
                                          Message = EwL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL) ))
         362.5192,
                      Layer 5 to 4
                                          Message = d,pV<\#gM3w^D2nTF\sim eK1
A:
A:
         373.0530,
                      Layer 5 to 4
                                          Message = Gf6.&{skcZRJB93)Gvnf
                      Layer 5 to 4
                                          Message = HQZdmv!+4=GPYclu~H3<</pre>
         373.3949,
A:
                      Layer 5 to 4
         379.8085,
                                          Message = Id~; Vq.Id~; Vq.Id~; Iq
A:
         393.8995,
                      Layer 5 to 4
                                          Message = JvEq?l:q5b0]+W&R~MyJ
A:
         401.5426,
                      Layer 5 to 4
                                         Message = K+iI)gG'eE%cC#aA~ >|
                                         Message = LLx~pbSE6(wiZL=x~pbS
         418.6077,
                      Layer 5 to 4
A:
         432.4318,
                      Layer 5 to 4
                                         Message = dPMVY] `cfilo2ux{~$'*
A:
A:
         433.6242,
                      Layer 5 to 4
                                          Message = NcwNCWl#7Lau,AUj~5J
                      Layer 5 to 4 Message = Ou=dORxAgxU{Dj2X~Gm5
A:
         434.0811,
A:
         453.0554, Layer 5 to 4 Message = Pfb;sP' 8pJ$[53G~X2j
         454.2499, Layer 5 to 4 Message = Q<(q]HQ|hS>*s J5~jUA
A:
```

```
Message = ROLIFC?R9630-*'$~{xu
A:
       470.7394,
                  Layer 5 to 4
A:
       489.6903,
                  Layer 5 to 4
                                 Message = Sbp~x=LZSw(6ESbp~x=L
       497.7883,
                  Layer 5 to 4
                                 Message = dt6Vv8Xx:Tz<2|> ~Aa#
A:
                  Layer 5 to 4
A:
       499.4851,
                                 Message = U) Z. `3e8j=UCtHyM~R&W
       518.7971,
                  Layer 5 to 4
                                 Message = V;~dI.qV;~dV.qV;~dI.
A:
       533.9070,
                  Layer 5 to 4
                                 Message = WNE; 2) } tkbXOW<3*~ulc</pre>
A:
A:
       546.3754,
                  Layer 5 to 4
                                 Message = Xaiqy$,4<EMU^Xnv~)19</pre>
                  Layer 5 to 4
                                 Message = YfxIc|8Rl(B[u1Ye~:Tn
A:
       563.2197,
A:
       564.4225,
                  Layer 5 to 4
                                 Message = Z(S~LwEp=i6bxZ(Z~LwE
                  Layer 5 to 4
                                 Message = d:wV5rQ0mL+h2&cB[^<y</pre>
       580.4557,
A:
                  Layer 5 to 4
                                 Message = ]M=.|m^N>x}n O?0~]`P
A:
       590.2770,
                  Layer 5 to 4
                                 Message = ^`bdfhjlnprtvxz|~#^'
A:
       595.9333,
                                 Message = _r(;Ocv,?Sgz0DWk~4H_
Message = ''Lq8^%Jo6[#Hm4Y~Fk2
       601.9633,
                  Layer 5 to 4
A:
       609.1523,
                 Layer 5 to 4
A:
A:
       614.4988,
                 Layer 5 to 4
                                 Message = aapI!X1hAwP) `8oH~W0g
A:
       632.2931,
                 Layer 5 to 4
                                 Message = bLb~iS=(pZExwbL6~iS=
       641.9314,
                  Layer 5 to 4
                                 Message = dfZcRNJFB=952-3%~zvr
A:
       652.9340,
                  Layer 5 to 4
                                 Message = dq~.dIVdq~.;IVdq~.;I
A:
       672.3899,
                 Layer 5 to 4
                                 Message = e&Ed%ec$Cb#Ba!A`~? }
A:
A:
       687.4546,
                  Layer 5 to 4
                                 Message = f8i;l>fBrEuHxK{N~Q$T
       700.0248,
                 Layer 5 to 4
                                 Message = gKxqU9\{gD(jN2tX<\sim cG+
Α:
       707.9444,
                 Layer 5 to 4
                                 Message = h^SI>4*hi TJ?5+~tj
A:
       712.6308,
                 Layer 5 to 4
A:
                                 Message = ipw \sim (x6 = EiSZbipw \sim (x6)
       717.5650,
                 Layer 5 to 4
                                 Message = d\%=Vo*C[txja24Mf~9Rk]
A:
A:
       725.5766,
                  Layer 5 to 4
                                 Message = k7b.X\%OyFp< k3^*T\sim KuB
       736.6201,
                  Layer 5 to 4
                                 Message = lf(dB)[9uS1ml)3C~]:v
Α:
       744.4566,
                  Layer 5 to 4
A:
                                 Message = m]L;+xhWG6&scmB1~n^M
       753.5072,
                  Layer 5 to 4
                                 Message = nopqrstuvwxyz{n}~!#$
A:
A:
       766.0475,
                  Layer 5 to 4
                                 Message = 0$6I[n#5HZm!4GYo~3FX
A:
       770.9876,
                  Layer 5 to 4
                                 Message = p6Z~EixSw=b(Lp6ZpEix
A:
       779.8129,
                 Layer 5 to 4
                                 Message = dI~V.d;qI~V.2;qI~q.d
A:
       785.9360,
                 Layer 5 to 4
                                 Message = r[E.u H1xbK4{eN7~hr}:
                                 Message = snid YTOJE?:50+&~yts
A:
       797.4972,
                  Layer 5 to 4
A:
       807.3191,
                  Layer 5 to 4
                                 Message = t # x; HTamy (4AMYfr~-9F
       823.8194,
                  Layer 5 to 4
                                 Message = uuSq10m-Ki)Ge%3a~>]z
A:
A:
       843.3472,
                  Layer 5 to 4
                                 Message = vHvIxJyKzL\{M|N\}O\sim P!Q
A:
       847.0464,
                  Layer 5 to 4
                                 Message = wZ=wbE(iLxpS6wZ=~bE(
                                 Message = dmbVx?4) {peY2C7, ~sh]
A:
       859.6696,
                  Layer 5 to 4
       878.4374,
                 Layer 5 to 4
                                 Message = y!(.4yAGMSY`flrx~'-3
A:
A:
       889.1660,
                  Layer 5 to 4
                                 Message = z4Ld{5ze|6Nf}70g~8Ph
       903.3069,
                  Layer 5 to 4
                                 Message = {Gp;e0Y{NwCl7a,U~Js>
A:
       910.5599,
                 Layer 5 to 4
                                 Message = |Y6qN+fC|Z7rO, qD\sim[8s]
A:
                  Layer 5 to 4
       911.5527,
                                 Message = }lZI7&raO},xgUD2~m[J
A:
                  Layer 5 to 4
A:
       917.2118,
                                 Message = \sim fDUgx, = 0a \sim \&7I31 \} 1CT
       930.2699,
                  Layer 5 to 4
                                 Message = !3EVhy->Pbs'2J[m~2DU
A:
A:
       937.5048,
                  Layer 5 to 4
                                 Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
       954.7839,
                  Layer 5 to 4
                                 Message = $X$d:oFzQ(]3h>sJ~U,a
A:
A:
       964.5290,
                  Layer 5 to 4
                                 Message = %kS%iR:\#iQ9!hP8\sim g07
       969.8755,
                  Layer 5 to 4
                                 A:
                                 Message = '2=IT'kv$x:FQ]hs\sim,7C
A:
       989.1120,
                 Layer 5 to 4
                  Layer 5 to 4
                                 Message = (Eb~=Z(6SpxLi(Eb~=Zw
       995.9031,
A:
                                 Message = dW(V'U\&)%S$R2Q!P~O}N
      1014.7423,
                  Layer 5 to 4
A:
      1025.0715,
                  Layer 5 to 4
                                 Message = *fL.nP2r*6vX:z3>~aC%
A:
A:
      1043.0614,
                  Layer 5 to 4
                                 Message = +|pdWK>2&+k RF9-~rfY
      1059.4220,
                  Layer 5 to 4
                                 Message = ,16;AFKPUZ,ejoty~&+0
A:
                  Layer 5 to 4
                                 Message = -DZq*AWn'=T-$:Qh~7Ne
      1071.7212,
A:
A:
      1083.8110,
                  Layer 5 to 4
                                 Message = .V~Iq;d.V~Iq.d.V~Iq;
                 Layer 5 to 4
                                 Message = xiE~Z6pL(b=wSxiE~Z6p
      1098.3356,
A:
      1113.4719, Layer 5 to 4
                                 Message = d\{iVD1|jWE2\}2X03\sim1YG
A:
      1128.9692,
                 Layer 5 to 4
                                 Message = 10x.-,+*) ('&%$\$1~}|{
A:
```

```
A:
      1131.6944,
                  Layer 5 to 4
                                 Message = 2CSdt'7HXiy, <M^n21BR</pre>
A:
      1134.4918,
                  Layer 5 to 4
                                 Message = 3fw;^!Df*Ln2Tv3]~3e
      1150.2728,
                  Layer 5 to 4
                                 Message = 4h=qGzP&Yxc8lBuK~T4^
A:
                  Layer 5 to 4
A:
      1161.6557,
                                 Message = 5zbIOu]D+pW>&kR9~fM5
      1173.7643,
                  Layer 5 to 4
                                 Message = 6x(~wpibZSLE=6x(~wpi
A:
      1183.7934,
                  Layer 5 to 4
                                 Message = d7LVaku!,6AK2`jt~+5?
A:
A:
      1201.7831,
                  Layer 5 to 4
                                 Message = 8T8.Jf?[w5Qm+Gc~<Xt
                  Layer 5 to 4
                                 Message = 9g693a0^-Z*W'T$Q~N\{K
A:
      1214.6340,
A:
      1220.1275,
                  Layer 5 to 4
                                 Message = :yZ;:[<{]=|^>} ?~`A!
                  Layer 5 to 4
                                 Message = ;.~qd;I;.~qdVI;.~qdV
      1228.5666,
A:
                  Layer 5 to 4
A:
      1246.0261,
                                 Message = \langle fEIMQ \langle Y^bfjnr3z \sim % \rangle -
      1247.0224,
                  Layer 5 to 4
                                 Message = =Si~6Lb=xEZp(=Si~6Lb
A:
      1252.4622,
                  Layer 5 to 4
                                 Message = dfxV}Gn7>(Ov2g0W~Ho8
Α:
      1258.4997,
                  Layer 5 to 4
                                 Message = ?xS.gBzU0?D|W2kF\sim Y4m
A:
A:
      1271.2035,
                  Layer 5 to 4
                                 Message = A-wdP<) s`LA%o[H4~kWD
A:
      1283.3043,
                  Layer 5 to 4
                                 Message = B?=;97531x-B)'%\#\sim|zx
                  Layer 5 to 4
      1301.0049,
                                 Message = CRbq#2BQap!1CP`o~0?0
A:
                  Layer 5 to 4
                                 Message = De(Ij-No2St7XD<^~Bc&</pre>
      1315.4419,
A:
      1318.3930,
                  Layer 5 to 4
                                 Message = EwL~S(Zxb6i=pEEL~S(Z
A:
A:
      1338.2829,
                  Layer 5 to 4
                                 Message = dfpV<#gM3w^D2n3F~eK1
      1347.6166,
                  Layer 5 to 4
                                 Message = G>6.&{skcZRJB91)Gvnf
Α:
A:
      1358.7744,
                  Layer 5 to 4
                                 Message = HQZdmv!+4=GPYclu~H3<</pre>
      1368.4589,
                  Layer 5 to 4
A:
                                 Message = Id~; Vq.Id~; Vq.Id~; Iq
      1375.6886,
                  Layer 5 to 4
                                 Message = JvEq?l:q5b0]+W&R~MyJ
A:
A:
      1384.5103,
                  Layer 5 to 4
                                 Message = K+iI) gG'eE%cC#aA~ >|
      1391.0356,
                  Layer 5 to 4
                                 Message = LLx~pbSE6(wiZL=x~pbS
A:
                  Layer 5 to 4
                                 Message = dPMVY] `cfilo2ux{~$'*
A:
      1402.3402,
      1417.6335,
                  Layer 5 to 4
                                 Message = NcwNCWl#7Lau,AUj~5J
A:
      1433.3792,
                  Layer 5 to 4
                                 Message = Of=dORxAgxU{Dj3X~Gm5
                                 Message = P*b;sP' 8pJ$[5mG~X2j
                  Layer 5 to 4
A:
      1450.3941,
A:
      1459.8894,
                 Layer 5 to 4
                                 Message = Q<(q]HQ|hS>*s J5~jUA
A:
      1467.7602,
                 Layer 5 to 4
                                 Message = ROLIFC?R9630-*'$\sim{xu}
      1471.7090,
A:
                  Layer 5 to 4
                                 Message = Sbp \sim x = LZSw (6ESbp \sim x = L
      1480.3071,
                  Layer 5 to 4
                                 Message = dt6Vv8Xx:Tz<2|> ~Aa#
Α:
      1488.0455,
                  Layer 5 to 4
                                 Message = U) Z. `3e8j=UCtHyM~R&W
A:
A:
      1506.9784,
                  Layer 5 to 4
                                 Message = V;~dI.qV;~dV.qV;~dI.
A:
      1512.2979,
                  Layer 5 to 4
                                 Message = WNE; 2) } tkbXOW<3*~ulc</pre>
      1516.8464,
                  Layer 5 to 4
                                 Message = Xfiqy$, 4<EMU^X3v^)19
A:
      1523.2828,
A:
                  Layer 5 to 4
                                 Message = YsxIc|8Rl(B[u1Ye~:Tn
A:
      1533.5896,
                  Layer 5 to 4
                                 Message = Z(S~LwEp=i6bxZ(Z~LwE
      1540.7750,
                  Layer 5 to 4
                                 Message = d:wV5rQ0mL+h2&cB[^<y</pre>
                                 Message = ]M=.|m^N>x}n O?0~]`P
      1544.4335,
                  Layer 5 to 4
A:
                  Layer 5 to 4
                                 Message = ^`bdfhjlnprtvxz|~#^'
Α:
      1553.4894,
                  Layer 5 to 4
A:
      1556.6419,
                                 Message =
                                             r(;Ocv,?Sgz0DWk~4H
                                 A:
      1559.7856,
                  Layer 5 to 4
A:
      1575.9101,
                  Layer 5 to 4
                                 Message = aapI!X1hAwP) `8oH~W0g
      1581.5307,
                  Layer 5 to 4
                                 Message = bfb~iS=(pZExwb36~iS=
A:
A:
      1585.6132,
                  Layer 5 to 4
                                 Message = d ZcRNJFB=952-)%~zvr
      1601.1026,
                  Layer 5 to 4
                                 Message = dq~.dIVdq~.;IVdq~.;I
A:
A:
      1610.7604,
                  Layer 5 to 4
                                 Message = e&Ed%ec$Cb#Ba!A`~? }
      1630.2072,
                  Layer 5 to 4
                                 Message = f8i;l>fBrEuHxK{N~Q$T
A:
                  Layer 5 to 4
      1631.8339,
                                 Message = gKxqU9\{gD(jN2tX<\sim cG+
A:
      1631.8677,
                  Layer 5 to 4
                                 Message = h^SI>4*hi TJ?5+~tj
      1640.9883,
A:
                  Layer 5 to 4
                                 Message = ipw \sim (x6 = EiSZbipw \sim (x6)
A:
      1650.5894,
                  Layer 5 to 4
                                 Message = d\%=Vo*C[txja24Mf~9Rk]
                  Layer 5 to 4
                                 Message = kfb.X%OyFp<k3^3T~KuB</pre>
A:
      1655.3146,
A:
      1671.5488,
                  Layer 5 to 4
                                 Message = lJ(dB)[9uS1ml)eC~]:v
                  Layer 5 to 4
                                 Message = m]L; +xhWG6&scmB1~n^M
A:
      1680.6598,
                                 Message = nopqrstuvwxyz\{n\} \sim ! \#\$
      1689.2173,
                  Layer 5 to 4
A:
      1695.6144,
                 Layer 5 to 4
                                 Message = 0$6I[n#5HZm!4GYo~3FX]
A:
```

```
A:
      1710.9096,
                  Layer 5 to 4
                                Message = p6Z~EixSw=b(Lp6ZpEix
A:
      1717.9100,
                  Layer 5 to 4
                                Message = dI~V.d;qI~V.2;qI~q.d
      1733.7126,
                 Layer 5 to 4
                                Message = r[E.u H1xbK4{eN7~hr}:
A:
                 Layer 5 to 4
                                Message = snid_YTOJE?:50+&~yts
A:
      1748.1743,
      1764.5199,
                 Layer 5 to 4
                                Message = tfx;HTamy(4AMY3r~-9F
A:
      1765.0867,
                 Layer 5 to 4
                                Message = uuSq10m-Ki)Ge%Ca~>]z
A:
A:
      1771.5745,
                 Layer 5 to 4
                                Message = vHvIxJyKzL\{M|N\}O\sim P!Q
                 Layer 5 to 4
      1772.9287,
                                Message = wZ=wbE(iLxpS6wZ=~bE(
A:
A:
      1791.6857,
                 Layer 5 to 4
                                Message = dmbVx?4) {peY2C7, ~sh]
      1800.7878,
                  Layer 5 to 4
                                Message = y!(.4yAGMSY`flrx~'-3
A:
                  Layer 5 to 4
A:
      1820.1101,
                                Message = z4Ld{5ze|6Nf}70g~8Ph
                 Layer 5 to 4
A:
      1829.7630,
                                Message = {Gp;e0Y{NwCl7a,U~Js>
                 Layer 5 to 4
Α:
      1846.3172,
                                Message = |Y6qN+fC|Z7rO, qD\sim[8s]
      1853.3531,
                Layer 5 to 4
                                Message = fZI7&raO, xgU32~m[J
A:
A:
      1864.9532,
                 Layer 5 to 4
                                A:
      1868.7205,
                 Layer 5 to 4
                                Message = !3EVhy->Pbs'2J[m~2DU
                 Layer 5 to 4
      1886.0926,
                                Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
A:
      1897.7333,
                 Layer 5 to 4
                                Message = $X$d:oFzQ(]3h>sJ~U,a
A:
      1903.7376,
                 Layer 5 to 4
                                Message = %kS%jR:#iQ9!hP8~g07
A:
A:
      1917.9318,
                 Layer 5 to 4
                                Message = &}wq&e XRLF?93-'~xrl
      1919.3647,
                 Layer 5 to 4
                                Message = '2=IT'kv$x:FQ]hs\sim,7C
Α:
                 Layer 5 to 4
A:
      1922.0360,
                                Message = (Eb \sim = Z (6SpxLi(Eb \sim = Zw))
                 Layer 5 to 4
                                Message = df(V'U\&)%SR2Q3P~O)N
A:
      1938.0876,
      1957.7482,
                 Layer 5 to 4
                                Message = *jL.nP2r*6vX:z]>~aC%
A:
      1973.9454,
                 Layer 5 to 4
                                Message = +|pdWK>2&+k RF9-~rfY
      1979.9727,
                 Layer 5 to 4
                                Message = ,16;AFKPUZ,ejoty~&+0
A:
                  Layer 5 to 4
A:
      1980.6184,
                                Message = -DZq*AWn'=T-$:Qh~7Ne
      1993.3695,
                 Layer 5 to 4
                                Message = .V~Iq;d.V~Iq.d.V~Iq;
A:
      2001.4249,
                 Layer 5 to 4
                                Message = xiE~Z6pL(b=wSxiE~Z6p
      2007.9016,
                 Layer 5 to 4
A:
                                Message = d\{iVD1|jWE2\}2X03\sim1YG
A:
      2022.7986, Layer 5 to 4
                                Message = 10x.-,+*) ('&%$\$1~}|{
A:
      2024.4716, Layer 5 to 4
                                Message = 2fSdt'7HXiy, <M3n21BR
                                Message = 3Uw;^!Df*Ln2Tv:]~3e)
A:
      2042.1479,
                 Layer 5 to 4
A:
      2047.9279,
                 Layer 5 to 4
                                Message = 4h=qGzP&Yxc8lBuK~T4^
      2052.6561,
                 Layer 5 to 4
                                Message = 5zbIOu]D+pW>&kR9~fM5
A:
      2058.4054,
                 Layer 5 to 4
                                Message = 6x(~wpibZSLE=6x(~wpi
                 Layer 5 to 4
A:
      2067.6407,
                                Message = d7LVaku!,6AK2`jt~+5?
                                Message = 8T8.Jf$?[w5Qm+Gc~<Xt</pre>
      2084.3901,
                 Layer 5 to 4
A:
      2092.5768,
                 Layer 5 to 4
                                Message = 9g693a0^-Z*W'T$Q~N{K}
A:
A:
      2106.3530,
                 Layer 5 to 4
                                Message = :yZ;:[<{]=|^>} ?~`A!
      2122.4375,
                 Layer 5 to 4
                                Message = ;f~qd;I;.~qdVI3.~qdV
      2135.4135,
                 Layer 5 to 4
                                Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
A:
                 Layer 5 to 4
                                Message = =Si~6Lb=xEZp(=Si~6Lb
A:
      2143.2794,
                  Layer 5 to 4
      2144.1958,
                                Message = dfxV}Gn7>(Ov2g0W~Ho8
A:
      2146.3073,
                 Layer 5 to 4
                                Message = ?xS.qBzU0?D|W2kF\sim Y4m
A:
A:
      2155.3888,
                 Layer 5 to 4
                                Message = A-wdP<)s`LA%o[H4~kWD</pre>
A:
      2168.3041,
                 Layer 5 to 4
                                Message = B?=;97531x-B)'%\#\sim|zx
A:
      2175.5164,
                 Layer 5 to 4
                                Message = CRbq#2BQap!1CP`o~0?0
      2191.9902,
                 Layer 5 to 4
                                Message = De(Ij-No2St7XD<^~Bc&</pre>
A:
A:
      2207.0389,
                 Layer 5 to 4
                                Message = EfL~S(Zxb6i=pEEL~S(Z
      2210.9050,
                 Layer 5 to 4
                                Message = d,pV<\#gM3w^D2nTF\sim eK1
A:
                  Layer 5 to 4
      2228.2675,
                                Message = G>6.&{skcZRJB91)Gvnf
A:
      2239.4180,
                 Layer 5 to 4
                                Message = HQZdmv!+4=GPYclu~H3<
      2246.8158,
A:
                 Layer 5 to 4
                                Message = Id~; Vq.Id~; Vq.Id~; Iq
                                Message = JvEq?1:g5b0]+W&R~MyJ
      2261.3672,
                 Layer 5 to 4
A:
      2267.2539,
                 Layer 5 to 4
                                Message = K+iI)gG'eE%cC#aA~ >|
A:
A:
      2283.8139,
                 Layer 5 to 4
                                Message = LLx~pbSE6(wiZL=x~pbS
                 Layer 5 to 4
      2288.3446,
                                Message = dPMVY] `cfilo2ux{~$'*
A:
A:
      2295.1099, Layer 5 to 4
                                Message = NfwNCWl#7Lau,A3j~5J
      2300.6090, Layer 5 to 4 Message = Ou=dORxAgxU{Dj2X~Gm5
A:
```

```
Message = P*b;sP' 8pJ$[5mG~X2j
A:
      2303.5774,
                  Layer 5 to 4
                                Message = Q<(q]HQ|hS>*s J5~jUA
A:
      2313.9034,
                  Layer 5 to 4
      2322.6628,
                 Layer 5 to 4
                                Message = ROLIFC?R9630-*'$\sim{xu}
A:
                 Layer 5 to 4
A:
      2341.9910,
                                Message = Sbp~x=LZSw (6ESbp~x=L
      2350.5522,
                 Layer 5 to 4
                                Message = dt6Vv8Xx:Tz<2|> ~Aa#
A:
      2357.9961,
                 Layer 5 to 4
                                Message = U) Z. `3e8j=UCtHyM~R&W
A:
A:
      2369.0849,
                 Layer 5 to 4
                                Message = V;~dI.qV;~dV.qV;~dI.
                 Layer 5 to 4
                                Message = WfE; 2) }tkbXOW<3*~ulc</pre>
A:
      2378.4953,
A:
      2378.7109,
                 Layer 5 to 4
                                Message = Xaiqy$,4<EMU^Xnv~)19</pre>
A:
                  Layer 5 to 4
                                Message = YsxIc|8Rl(B[u1Ye~:Tn
      2382.8671,
                  Layer 5 to 4
A:
      2395.8996,
                                Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE
                 Layer 5 to 4
A:
      2412.0000,
                                Message = d:wV5rQ0mL+h2&cB[^<y</pre>
      2431.8978,
                 Layer 5 to 4
                                Message = ]M=.|m^N>x}n O?0~]`P
Α:
      2433.9049,
                 Layer 5 to 4
                                Message = ^`bdfhjlnprtvxz|~#^'
A:
      2446.8011,
A:
                 Layer 5 to 4
                                Message = r(;Ocv,?Sgz0DWk~4H)
                                Message = \' Lq8^{\} Jo6[\#Hm4Y\sim Fk2]
A:
      2453.4679,
                 Layer 5 to 4
      2463.5990,
                 Layer 5 to 4
                                Message = aapI!X1hAwP) `83H~W0g
A:
                 Layer 5 to 4
                                Message = bLb~iS=(pZExwbL6~iS=
      2475.9060,
A:
      2480.4539, Layer 5 to 4
                                Message = d ZcRNJFB=952-)%~zvr
A:
                 Layer 5 to 4
A:
      2496.7970,
                                Message = dq~.dIVdq~.;IVdq~.;I
      2514.6572,
                 Layer 5 to 4
                                Message = e&Ed%ec$Cb#Ba!A`~? }
Α:
      2531.0042,
                 Layer 5 to 4
A:
                                Message = f8i;l>fBrEuHxK{N~Q$T
                 Layer 5 to 4
A:
      2546.0673,
                                Message = gKxqU9\{gD(jN2tX<\sim cG+
      2552.2190,
                 Layer 5 to 4
                                Message = h^SI>4*hi TJ?5+~tj`
A:
      2563.8117,
                 Layer 5 to 4
                                Message = ipw \sim (x6 = EiSZbipw \sim (x6)
      2582.2847,
                 Layer 5 to 4
                                Message = df=Vo*C[txja243f~9Rk]
A:
                  Layer 5 to 4
A:
      2597.0065,
                                Message = k7b.X%OyFp<k3^*T~KuB
      2606.5868,
                 Layer 5 to 4
                                Message = lJ(dB)[9uS1ml)eC~]:v
A:
      2623.3801,
                 Layer 5 to 4
                                Message = m]L;+xhWG6&scmB1~n^M
A:
                 Layer 5 to 4
      2628.3511,
                                Message = nopqrstuvwxyz{n}~!#$
A:
      2635.2407,
                 Layer 5 to 4
                                Message = 0$6I[n#5HZm!4GYo~3FX]
A:
      2648.4194,
                 Layer 5 to 4
                                Message = p6Z~EixSw=b(Lp6ZpEix
      2662.7138,
                                Message = dI~V.d;qI~V.2;qI~q.d
A:
                 Layer 5 to 4
A:
      2669.5963,
                 Layer 5 to 4
                                Message = r[E.u H1xbK4{eN7~hr}:
      2684.2022,
                 Layer 5 to 4
                                Message = sfid YTOJE?:503&~yts
A:
      2685.7605,
                 Layer 5 to 4
                                Message = t # x; HTamy (4AMYfr~-9F
A:
      2694.6575,
                 Layer 5 to 4
                                Message = uuSq10m-Ki)Ge%Ca~>]z
      2707.1317,
                 Layer 5 to 4
                                Message = vHvIxJyKzL\{M|N\}O\sim P!Q
A:
      2721.2809,
A:
                 Layer 5 to 4
                                Message = wZ=wbE(iLxpS6wZ=~bE(
A:
      2726.5422,
                 Layer 5 to 4
                                Message = dmbVx?4) {peY2C7, ~sh]
      2733.3220,
                 Layer 5 to 4
                                Message = y!(.4yAGMSY`flrx~'-3
                                Message = z4Ld{5ze|6Nf}70g~8Ph
      2741.8875,
                 Layer 5 to 4
A:
                 Layer 5 to 4
A:
      2761.2959,
                                Message = {Gp;e0Y{NwCl7a,U~Js>
                  Layer 5 to 4
      2778.1312,
                                Message = |f6qN+fC|Z7rO,3D\sim[8s]
A:
                                Message = }lZI7&raO},xgUD2~m[J
A:
      2789.1518,
                 Layer 5 to 4
A:
      2792.3685,
                 Layer 5 to 4
                                2795.2047,
                 Layer 5 to 4
                                Message = !3EVhy->Pbs'2J[m~2DU
A:
A:
      2804.2305,
                 Layer 5 to 4
                                Message = \#i.Qt9]!Eh-Ps8[~Dq,
      2821.2224,
                 Layer 5 to 4
                                Message = X$d:oFzQ(]3h>sJ~U,a
A:
A:
      2823.6556, Layer 5 to 4
                                Message = %kS%$jR:#iQ9!hP8~g07
      2837.6299, Layer 5 to 4
                                Message = &}wq&e XRLF?93-'~xrl
A:
                 Layer 5 to 4
                                Message = '2=IT'kv$x:FQ]hs\sim,7C
      2843.8674,
A:
      2858.1571,
                 Layer 5 to 4
                                Message = (fb \sim = Z (6SpxLi (3b \sim = Zw))
                                Message = dW(V'U\&)%S$R2Q!P~O}N
A:
      2864.1592,
                 Layer 5 to 4
      2882.5396,
                 Layer 5 to 4
                                Message = *jL.nP2r*6vX:z]>~aC%
A:
      2901.7925,
                 Layer 5 to 4
                                Message = +|pdWK>2&+k RF9-~rfY
A:
A:
      2904.2851,
                 Layer 5 to 4
                                Message = ,16;AFKPUZ,ejoty~&+0
                 Layer 5 to 4
      2918.9871,
                                Message = -DZq*AWn'=T-$:Qh~7Ne
A:
      2934.4586, Layer 5 to 4
                                Message = .V~Iq;d.V~Iq.d.V~Iq;
A:
      2944.6608, Layer 5 to 4 Message = xiE~Z6pL(b=wSxiE~Z6p
A:
```

```
A:
      2952.6425,
                   Layer 5 to 4
                                 Message = d\{iVD1|jWE2\}2X03\sim1YG
A:
      2961.1893,
                   Layer 5 to 4
                                 Message = 1fx.-,+*) ('&\$\$31~}|{
      2966.4154,
                  Layer 5 to 4
                                 Message = 2CSdt'7HXiy, <M^n21BR</pre>
A:
                  Layer 5 to 4
                                 Message = 3Uw;^!Df*Ln2Tv:]~3e)
A:
      2982.3912,
      2988.0213,
                  Layer 5 to 4
                                 Message = 4h=qGzP&Yxc8lBuK~T4^
A:
                                 Message = 5zbIOu]D+pW>&kR9~fM5
      2992.8231,
                  Layer 5 to 4
A:
A:
      2995.7146,
                  Layer 5 to 4
                                  Message = 6x(~wpibZSLE=6x(~wpi
                  Layer 5 to 4
                                 Message = d7LVaku!, 6AK2 jt~+5?
      3014.0269,
A:
A:
      3029.1228,
                  Layer 5 to 4
                                 Message = 8T8.Jf?[w5Qm+Gc~<Xt
                   Layer 5 to 4
                                  Message = 9q693a0^-Z*W'T$Q~N\{K
      3047.4234,
A:
      3065.9647,
                   Layer 5 to 4
A:
                                  Message = :fZ;:[<{]=|^>}3?~^A!
                                 Message = ;.~qd;I;.~qdVI;.~qdV
      3069.8455,
                  Layer 5 to 4
A:
      3073.8424,
                  Layer 5 to 4
                                  Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
Α:
      3089.5105,
                  Layer 5 to 4
                                  Message = =Si\sim6Lb=xEZp(=Si\sim6Lb
A:
A:
      3103.8840,
                  Layer 5 to 4
                                  Message = dfxVGn7>(Ov2g0W~Ho8
A:
      3119.2918,
                  Layer 5 to 4
                                 Message = ?xS.gBzU0?D|W2kF\sim Y4m
                                 Message = A-wdP<)s`LA%o[H4~kWD</pre>
      3137.6505,
                  Layer 5 to 4
A:
                  Layer 5 to 4
                                 Message = B?=;97531x-B)'%\#\sim|zx
      3151.9787,
A:
                  Layer 5 to 4
      3165.7317,
                                 Message = CRbq#2BQap!1CP`o~0?0
A:
A:
      3172.8246,
                  Layer 5 to 4
                                 Message = Df(Ij-No2St7XD3^~Bc&
      3182.5778,
                  Layer 5 to 4
                                 Message = EwL\sim S(Zxb6i=pEEL\sim S(Z
Α:
                  Layer 5 to 4
A:
      3185.7962,
                                 Message = d, pV < \#gM3w^D2nTF \sim eK1
      3196.8006,
                  Layer 5 to 4
A:
                                 Message = G>6.&{skcZRJB91)Gvnf
      3208.7413,
                  Layer 5 to 4
                                 Message = HQZdmv!+4=GPYclu~H3<
A:
      3215.0725,
                  Layer 5 to 4
                                 Message = Id~; Vq.Id~; Vq.Id~; Iq
      3223.5414,
                  Layer 5 to 4
                                 Message = JvEq?1:g5b0]+W&R~MyJ
A:
                   Layer 5 to 4
                                 Message = K+iI)gG'eE%cC#aA~ >|
A:
      3241.3906,
      3252.3940,
                  Layer 5 to 4
                                 Message = LLx~pbSE6(wiZL=x~pbS
A:
A:
      3266.8437,
                  Layer 5 to 4
                                 Message = dfMVY] `cfilo2u3{~$'*
                                 Message = NcwNCWl#7Lau,AUj~5J
      3282.0029,
                  Layer 5 to 4
A:
A:
      3283.2494,
                 Layer 5 to 4
                                 Message = Ou=dORxAqxU{Dj2X~Gm5
A:
      3293.0917,
                  Layer 5 to 4
                                  Message = P*b;sP' 8pJ$[5mG~X2j
      3293.2516,
                                  Message = Q<(q]HQ|hS>*s J5~jUA
A:
                  Layer 5 to 4
A:
      3300.1949,
                  Layer 5 to 4
                                 Message = ROLIFC?R9630-*'$~{xu
      3316.2823,
                  Layer 5 to 4
                                 Message = Sbp~x=LZSw(6ESbp~x=L
A:
A:
      3316.3503,
                  Layer 5 to 4
                                 Message = dt6Vv8Xx:Tz<2|> ~Aa#
A:
      3320.2412,
                  Layer 5 to 4
                                 Message = U) Z. `3e8j=UCtHyM~R&W
      3333.9418,
                  Layer 5 to 4
                                 Message = Vf~dI.qV;~dV.q3;~dI.
A:
A:
      3339.7621,
                  Layer 5 to 4
                                 Message = WNE; 2) }tkbXOW<3*~ulc</pre>
A:
      3342.5879,
                  Layer 5 to 4
                                 Message = Xaiqy$, 4<EMU^Xnv~)19</pre>
      3354.8232,
                  Layer 5 to 4
                                 Message = YsxIc|8Rl(B[u1Ye~:Tn
      3374.1957,
                  Layer 5 to 4
                                 Message = Z(S~LwEp=i6bxZ(Z~LwE
A:
                  Layer 5 to 4
                                 Message = d:wV5rQ0mL+h2&cB[^<y</pre>
A:
      3387.5574,
                   Layer 5 to 4
      3397.0096,
                                  Message = ]M=.|m^N>x}n O?0~]`P
A:
                                  Message = ^`bdfhjlnprtvxz|~#^'
      3401.4999,
                  Layer 5 to 4
A:
                                 Message = _r(;Ocv,?Sgz0DWk~4H_
Message = `fLq8^%Jo6[#Hm3Y~Fk2
A:
      3409.2128,
                  Layer 5 to 4
      3420.6158,
                  Layer 5 to 4
A:
A:
      3429.5976,
                  Layer 5 to 4
                                  Message = aapI!X1hAwP) `8oH~W0g
      3447.9953,
                  Layer 5 to 4
                                  Message = bLb~iS=(pZExwbL6~iS=
A:
A:
      3457.8862,
                  Layer 5 to 4
                                 Message = d ZcRNJFB=952-)%~zvr
      3473.4795,
                  Layer 5 to 4
                                 Message = dq~.dIVdq~.;IVdq~.;I
A:
                  Layer 5 to 4
      3490.9691,
                                 Message = e&Ed%ec$Cb#Ba!A`~? }
A:
      3498.4907,
                  Layer 5 to 4
                                 Message = f8i;l>fBrEuHxK{N~Q$T
      3514.3020,
A:
                  Layer 5 to 4
                                 Message = gKxqU9\{qD(jN2tX<\sim cG+
A:
      3533.6978,
                  Layer 5 to 4
                                 Message = h^SI>4*}hi TJ?5+~tj
      3542.5447,
                  Layer 5 to 4
                                 Message = ifw \sim (x6 = EiSZbi3w \sim (x6)
A:
A:
      3553.2306,
                  Layer 5 to 4
                                  Message = d\%=Vo*C[txja24Mf~9Rk]
                  Layer 5 to 4
                                  Message = k7b.X\%OyFp< k3^*T\sim KuB
A:
      3571.2242,
                                 Message = lJ(dB)[9uS1ml)eC~]:v
A:
      3589.4651, Layer 5 to 4
      3603.7015, Layer 5 to 4
                                 Message = m]L;+xhWG6&scmB1~n^M
A:
```

```
A:
      3615.0561,
                  Layer 5 to 4
                                Message = nopqrstuvwxyz{n}~!#$
A:
      3631.0597,
                  Layer 5 to 4
                                Message = 0$6I[n#5HZm!4GYo~3FX
      3644.9460,
                 Layer 5 to 4
                                Message = p6Z~EixSw=b(Lp6ZpEix
A:
                 Layer 5 to 4
A:
      3651.9043,
                                Message = dI~V.d;qI~V.2;qI~q.d
      3659.4739,
                 Layer 5 to 4
                                Message = rfE.u H1xbK4{e37~hr:
A:
      3661.1962,
                 Layer 5 to 4
                                Message = snid YTOJE?:50+&~yts
A:
A:
      3669.1115,
                 Layer 5 to 4
                                Message = t # x; HTamy (4AMYfr~-9F
                 Layer 5 to 4
      3680.7331,
                                Message = uuSq10m-Ki)Ge%Ca~>]z
A:
                                Message = vHvIxJyKzL{M|N}O~P!Q
A:
      3685.7077,
                 Layer 5 to 4
                  Layer 5 to 4
      3694.0008,
                                Message = wZ=wbE(iLxpS6wZ=\sim bE(
A:
                  Layer 5 to 4
A:
      3695.8347,
                                Message = dmbVx?4) {peY2C7, ~sh]
      3697.9176,
                 Layer 5 to 4
                                Message = y!(.4yAGMSY`flrx~'-3
A:
      3705.3132,
                 Layer 5 to 4
                                Message = z4Ld{5ze|6Nf}70g~8Ph
Α:
      3722.4890,
                 Layer 5 to 4
                                Message = {fp;e0Y{NwCl7a3U~Js>
A:
A:
      3736.5146,
                 Layer 5 to 4
                                Message = |Y6qN+fC|Z7rO,gD\sim[8s]
                                Message = }lZI7&raO},xgUD2~m[J
A:
      3744.2979,
                 Layer 5 to 4
                                3759.2586,
                 Layer 5 to 4
A:
      3762.8050,
                 Layer 5 to 4
                                Message = !3EVhy->Pbs'2J[m~2DU
A:
      3766.8138,
                 Layer 5 to 4
A:
                                Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
A:
      3783.5130,
                 Layer 5 to 4
                                Message = $X$d:oFzQ(]3h>sJ~U,a
      3787.4971,
                 Layer 5 to 4
                                Message = %kS%jR:#iQ9!hP8~gO7
Α:
                 Layer 5 to 4
      3788.3408,
                                Message = &}wq&e XRLF?93-'~xrl
A:
                                Message = 'f=IT'kv$x:FQ]3s\sim,7C
      3808.2751,
                 Layer 5 to 4
A:
      3824.3150,
                 Layer 5 to 4
                                Message = (Eb \sim = Z (6SpxLi (Eb \sim = Zw))
A:
      3826.9326,
                 Layer 5 to 4
                                Message = dW(V'U\&) %S$R2Q!P~O}N
      3839.9145,
                 Layer 5 to 4
                                Message = *jL.nP2r*6vX:z]>~aC%
A:
                 Layer 5 to 4
                                Message = +|pdWK>2&+k_RF9-~rfY
A:
      3846.7538,
      3855.5851,
                 Layer 5 to 4
                                Message = ,16;AFKPUZ,ejoty~&+0
A:
      3863.4980,
                 Layer 5 to 4
                                Message = -DZq*AWn'=T-$:Qh~7Ne
      3875.5319,
                 Layer 5 to 4
                                Message = .V~Iq;d.V~Iq.d.V~Iq;
A:
A:
      3888.1742, Layer 5 to 4
                                Message = xiE~Z6pL(b=wSxiE~Z6p
A:
      3888.2903,
                 Layer 5 to 4
                                Message = dfiVD1|jWE2}2X03~1YG
      3898.5078,
                                Message = 10x.-,+*) ('&%$\$1~}|{
A:
                 Layer 5 to 4
                                Message = 2CSdt'7HXiy, <M^n21BR</pre>
A:
      3905.3844,
                 Layer 5 to 4
      3920.2862,
                 Layer 5 to 4
                                Message = 3Uw;^!Df*Ln2Tv:]~3e)
A:
      3933.5616,
                 Layer 5 to 4
                                Message = 4h=qGzP&Yxc8lBuK~T4^
A:
      3953.3444,
                 Layer 5 to 4
                                Message = 5zbI0u]D+pW>&kR9~fM5
      3963.2900,
                 Layer 5 to 4
                                Message = 6x(~wpibZSLE=6x(~wpi
A:
A:
      3978.5628,
                 Layer 5 to 4 Message = d7LVaku!, 6AK2`jt~+5?
A:
      3988.8907,
                 Layer 5 to 4
                                Message = 8T8.Jf?[w5Qm+Gc~<Xt
      3989.8414,
                 Layer 5 to 4
                                Message = 9f693a0^-Z*W'T3Q~N\{K
      4007.7690,
                 Layer 5 to 4
                                Message = :yZ;: [<{]=|^>} ?~ `A!
A:
      4017.0293,
                 Layer 5 to 4
                                Message = ;.~qd;I;.~qdVI;.~qdV
A:
                  Layer 5 to 4
A:
      4035.0229,
                                Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
      4050.0632,
                 Layer 5 to 4
                                Message = =Si\sim6Lb=xEZp(=Si\sim6Lb
A:
A:
      4053.0018,
                 Layer 5 to 4
                                Message = dfxV}Gn7>(Ov2g0W~Ho8
A:
      4060.9822,
                 Layer 5 to 4
                                Message = ?xS.gBzU0?D|W2kF\sim Y4m
A:
      4068.4413,
                 Layer 5 to 4
                                Message = A-wdP<)s`LA%o[H4~kWD
      4072.9895,
                 Layer 5 to 4
                                Message = B?=;97531x-B)'%\#~|zx
A:
A:
      4075.7610, Layer 5 to 4
                                Message = Cfbq#2BQap!1CP3o~0?0
      4076.1297,
                 Layer 5 to 4
                                Message = De(Ij-No2St7XD<^~Bc&</pre>
A:
                  Layer 5 to 4
      4091.5762,
                                Message = EwL~S(Zxb6i=pEEL~S(Z
A:
      4102.0778,
                 Layer 5 to 4
                                Message = d_pV<\#gM3w^D2nTF\sim eK1
A:
      4121.4944,
                 Layer 5 to 4
                                Message = G>6.&{skcZRJB91)Gvnf
      4136.3425,
                 Layer 5 to 4
                                Message = HQZdmv!+4=GPYclu~H3<</pre>
A:
      4149.4421,
                 Layer 5 to 4
                                Message = Id~; Vq.Id~; Vq.Id~; Iq
A:
                 Layer 5 to 4
A:
      4153.8162,
                                Message = JvEq?l:g5b0]+W&R~MyJ
      4169.0198,
                 Layer 5 to 4
                                Message = K+iI)gG'eE%cC#aA~ >|
A:
     4176.6510, Layer 5 to 4
                                Message = LLx~pbSE6(wiZL3x~pbS
A:
      4194.3807,
                 Layer 5 to 4 Message = dPMVY] `cfilo2ux{~$'*
A:
```

```
A:
      4197.5714,
                  Layer 5 to 4
                                Message = NcwNCWl#7Lau,AUj~5J
A:
      4202.7770,
                  Layer 5 to 4
                                Message = Ou=dORxAgxU{Dj2X~Gm5
      4212.7958,
                  Layer 5 to 4
                                Message = P*b;sP' 8pJ$[5mG~X2j
A:
                 Layer 5 to 4
                                Message = Q<(q]HQ|hS>*s J5~jUA
A:
      4219.4080,
      4231.4354,
                 Layer 5 to 4
                                Message = ROLIFC?R9630-*'$~{xu
A:
      4234.7224,
                 Layer 5 to 4
                                Message = Sbp~x=LZSw (6ESbp~x=L
A:
A:
      4239.4168,
                 Layer 5 to 4
                                 Message = dt6Vv8Xx:Tz<2|> ~Aa#
                 Layer 5 to 4
      4258.2610,
                                Message = UfZ. `3e8j=UCtH3M~R&W
A:
                                 Message = V;~dI.qV;~dV.qV;~dI.
A:
      4273.6123,
                 Layer 5 to 4
      4282.3912,
                  Layer 5 to 4
                                 Message = WNE;2) }tkbXOW<3*~ulc</pre>
A:
                  Layer 5 to 4
A:
      4289.0230,
                                 Message = Xaiqy$, 4<EMU^Xnv~)19</pre>
      4289.4377,
                 Layer 5 to 4
A:
                                Message = YsxIc|8Rl(B[u1Ye~:Tn
      4299.9312,
                 Layer 5 to 4
Α:
                                 Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE
      4303.9001,
                 Layer 5 to 4
                                Message = d:wV5rQ0mL+h2&cB[^<y</pre>
A:
A:
      4309.4947,
                 Layer 5 to 4
                                 Message = ]M=.|m^N>x}n O?0~]`P
A:
      4318.6373,
                 Layer 5 to 4
                                 Message = ^`bdfhjlnprtvxz|~#^'
                 Layer 5 to 4
                                Message = f(;Ocv,?Sgz0D3k~4H
      4337.8113,
A:
                                Message = \frac{1}{Lq8}\%Jo6[\#Hm4Y\sim Fk2]
                 Layer 5 to 4
      4354.1992,
A:
      4367.1555,
                 Layer 5 to 4
                                Message = aapI!X1hAwP) `8oH~W0g
A:
A:
      4383.4712,
                 Layer 5 to 4
                                Message = bLb~iS=(pZExwbL6~iS=
      4400.1301,
                 Layer 5 to 4
                                Message = d ZcRNJFB=952-)%~zvr
Α:
A:
      4407.7444,
                 Layer 5 to 4
                                Message = dq~.dIVdq~.;IVdq~.;I
      4420.3842,
                 Layer 5 to 4
A:
                                Message = e&Ed%ec$Cb#Ba!A`~? }
      4437.6122,
                 Layer 5 to 4
                                Message = f8i;l>fBrEuHxK{N~Q$T
A:
      4448.6430,
                 Layer 5 to 4
                                Message = gKxqU9\{qD(jN2tX<\sim cG+
      4463.6903,
                 Layer 5 to 4
                                Message = hfSI>4*}hi TJ?3+~tj`
A:
                  Layer 5 to 4
A:
      4483.3881,
                                Message = ipw~(x6=EiSZbipw~(x6
      4484.1685,
                  Layer 5 to 4
                                Message = d%=Vo*C[txja24Mf~9Rk
A:
      4500.7478,
                 Layer 5 to 4
                                Message = k7b.X\%OyFp< k3^*T\sim KuB
                                Message = lJ(dB)[9uS1ml)eC~]:v
      4509.0192,
                 Layer 5 to 4
A:
A:
      4526.3755,
                 Layer 5 to 4
                                Message = m]L;+xhWG6&scmB1~n^M
A:
      4546.3380,
                 Layer 5 to 4
                                 Message = nopgrstuvwxyz{n}~!#$
A:
      4555.8911,
                 Layer 5 to 4
                                 Message = 0$6I[n#5HZm!4GYo~3FX
A:
      4574.5974,
                 Layer 5 to 4
                                Message = p6Z~EixSw=b(Lp6ZpEix
      4592.3523,
                 Layer 5 to 4
                                Message = df~V.d;qI~V.2;3I~q.d
A:
      4597.8953,
                 Layer 5 to 4
                                Message = r[E.u H1xbK4{eN7~hr}:
A:
      4599.2993,
                 Layer 5 to 4
                                Message = snid_YTOJE?:50+&~yts
      4617.2120,
                 Layer 5 to 4
                                Message = t # x; HTamy (4AMYfr~-9F
A:
A:
      4635.7885,
                 Layer 5 to 4
                                Message = uuSq10m-Ki)Ge%Ca~>]z
A:
      4651.6130,
                 Layer 5 to 4
                                Message = vHvIxJyKzL\{M|N\}O\sim P!Q
      4653.0779,
                 Layer 5 to 4
                                Message = wZ=wbE(iLxpS6wZ=~bE(
      4654.5997,
                 Layer 5 to 4
                                Message = dmbVx?4) {peY2C7, ~sh]
A:
                 Layer 5 to 4
                                Message = y!(.4yAGMSY`flrx~'-3
A:
      4671.5492,
                  Layer 5 to 4
A:
      4681.2304,
                                 Message = zfLd{5ze|6Nf}73g~8Ph
      4692.5466,
                  Layer 5 to 4
                                 Message = {Gp;e0Y{NwCl7a,U~Js>
A:
A:
      4703.8407,
                 Layer 5 to 4
                                 Message = |Y6qN+fC|Z7rO, gD\sim[8s]
A:
      4704.5990,
                 Layer 5 to 4
                                Message = }lZI7&raO},xgUD2~m[J
A:
      4709.2851,
                 Layer 5 to 4
                                 4727.5702,
                 Layer 5 to 4
                                 Message = !3EVhy->Pbs'2J[m~2DU
A:
A:
      4746.3385,
                 Layer 5 to 4
                                Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
                  Layer 5 to 4
      4765.3245,
                                Message = $X$d:oFzQ(]3h>sJ~U,a
A:
                  Layer 5 to 4
      4782.3550,
                                Message = %kS%jR:#iQ9!hP8~gO7
A:
      4793.6713,
                  Layer 5 to 4
                                Message = &fwq&e XRLF?933'~xrl
                                Message = '2=IT'kv$x:FQ]hs\sim,7C
A:
      4807.2453,
                 Layer 5 to 4
      4824.9613,
                 Layer 5 to 4
                                Message = (Eb~=Z(6SpxLi(Eb~=Zw
A:
                 Layer 5 to 4
                                Message = dW(V'U\&) %S$R2Q!P~O}N
      4837.4777,
A:
                                 Message = *jL.nP2r*6vX:z]>~aC%
A:
      4840.5462,
                 Layer 5 to 4
                 Layer 5 to 4
      4854.4108,
A:
                                 Message = +|pdWK>2&+k RF9-~rfY
                                Message = ,16;AFKPUZ,ejoty~&+0
A:
      4856.2078, Layer 5 to 4
      4857.3349, Layer 5 to 4 Message = -DZq*AWn'=T-$:Qh~7Ne
A:
```

```
A:
        4861.9433,
                       Layer 5 to 4
                                         Message = .V~Iq;d.V~Iq.d.V~Iq;
A:
        4874.5603,
                       Layer 5 to 4
                                         Message = xfE \sim Z6pL(b=wSx3E \sim Z6p
        4888.3169,
                      Layer 5 to 4
                                         Message = d\{iVD1|jWE2\}2X03\sim1YG
A:
                      Layer 5 to 4
A:
        4894.9884,
                                         Message = 10x.-,+*) ('&%$\$\$1~}|{
        4904.0462,
                      Layer 5 to 4
                                         Message = 2CSdt'7HXiy,<M^n21BR</pre>
A:
                                         Message = 3Uw;^!Df*Ln2Tv:]~3e)
        4918.1161,
                      Layer 5 to 4
A:
A:
        4930.7688,
                      Layer 5 to 4
                                         Message = 4h=qGzP&Yxc8lBuK~T4^
                      Layer 5 to 4
        4945.2703,
                                         Message = 5zbI0u]D+pW>&kR9~fM5
A:
                                         Message = 6x(~wpibZSLE=6x(~wpi
A:
        4951.5450,
                      Layer 5 to 4
        4969.9775,
                       Layer 5 to 4
                                         Message = d7LVaku!, 6AK2`jt~+5?
A:
                       Layer 5 to 4
A:
        4986.2158,
                                         Message = 8f8.Jf?[w5Qm+3c~<Xt
        5001.8664,
                      Layer 5 to 4
                                         Message = 9g693a0^-Z*W'T$Q~N\{K
A:
        5002.0680,
                      Layer 5 to 4
                                         Message = :yZ;:[<{]=|^>} ?~`A!
Α:
        5009.8022,
                      Layer 5 to 4
                                         Message = ;.~qd;I;.~qdVI;.~qdV
A:
A:
        5019.3461,
                      Layer 5 to 4
                                         Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
A:
        5021.7716,
                      Layer 5 to 4
                                         Message = =Si\sim6Lb=xEZp(=Si\sim6Lb
                      Layer 5 to 4
        5028.6194,
                                         Message = dfxVGn7>(Ov2g0W~Ho8
A:
        5039.2105,
                      Layer 5 to 4
                                         Message = ?xS.gBzU0?D|W2kF~Y4m
A:
        5044.2339,
                      Layer 5 to 4
A:
                                         Message = A-wdP<)s`LA%o[H4~kWD
A:
        5051.0291,
                      Layer 5 to 4
                                         Message = Bf=;97531x-B)'3\#\sim |zx
        5059.3760,
                      Layer 5 to 4
                                         Message = CRbq#2BQap!1CP`o~0?0
Α:
       5065.7400,
                      Layer 5 to 4
                                         Message = De(Ij-No2St7XD<^~Bc&</pre>
A:
        5085.5955,
                      Layer 5 to 4
A:
                                         Message = EwL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL) )))
        5096.3101,
                      Layer 5 to 4
                                         Message = d_pV<\#gM3w^D2nTF\sim eK1
A:
        5115.7149,
                      Layer 5 to 4
                                         Message = G>6.&{skcZRJB91)Gvnf
        5132.7189,
                      Layer 5 to 4
                                         Message = HQZdmv!+4=GPYclu~H3<</pre>
A:
                       Layer 5 to 4
A:
        5138.3951,
                                         Message = Id~; Vq.Id~; Vq.Id~; Iq
        5139.8205,
                       Layer 5 to 4
                                         Message = JvEq?1:g5b0]+W&R~MyJ
A:
A:
        5155.7822,
                      Layer 5 to 4
                                         Message = KfiI)gG'eE%cC#3A~ >|
        5164.5208,
                      Layer 5 to 4
A:
                                         Message = LLx~pbSE6(wiZL=x~pbS
A:
        5173.5667,
                      Layer 5 to 4
                                         Message = dPMVY] `cfilo2ux{~$'*
A:
        5187.4360,
                      Layer 5 to 4
                                         Message = NcwNCWl#7Lau,AUj~5J
A:
        5189.2682,
                      Layer 5 to 4
                                         Message = Ou=dORxAgxU{Dj2X~Gm5
A:
        5203.1705,
                      Layer 5 to 4
                                         Message = P*b;sP' 8pJ$[5mG~X2j
                                         Message = Q<(q]HQ|hS>*s J5~jUA
                      Layer 5 to 4
        5219.8216,
A:
                                         Message = ROLIFC?R9630-*'^{\circ} {xu
A:
        5233.8017,
                      Layer 5 to 4
A:
        5237.1242,
                      Layer 5 to 4
                                         Message = Sbp~x=LZSw (6ESbp~x=L
A:
       5239.2605,
                      Layer 5 to 4
                                         Message = df6Vv8Xx:Tz<2|3 ~Aa#</pre>
       5243.4997,
                      Layer 5 to 4
                                         Message = U) Z. `3e8j=UCtHyM~R&W
A:
A:
       5252.5556,
                      Layer 5 to 4
                                         Message = V;~dI.qV;~dV.qV;~dI.
        5254.8011,
                      Layer 5 to 4
                                         Message = WNE; 2) } tkbXOW<3*~ulc</pre>
        5255.3459,
                      Layer 5 to 4
                                         Message = Xaiqy$, 4<EMU^Xnv~)19</pre>
A:
                      Layer 5 to 4
                                         Message = YsxIc|8Rl(B[u1Ye~:Tn
A:
        5271.9258,
                       Layer 5 to 4
        5289.1690,
                                         Message = Z(S~LwEp=i6bxZ(Z~LwE
A:
        5296.1841,
                       Layer 5 to 4
                                         Message = d:wV5rQ0mL+h2&cB[^<y</pre>
A:
A:
        5298.6829,
                      Layer 5 to 4
                                         Message = ]M=.|m^N>x}n O?0~]`P
                                         Message = ^fbdfhjlnprtvx3|~#^'
A:
        5316.8107,
                      Layer 5 to 4
                                         Message = _r(;Ocv,?Sgz0DWk~4H_
Message = `'Lq8^%Jo6[#Hm4Y~Fk2
A:
        5329.4140,
                      Layer 5 to 4
        5334.1732,
                      Layer 5 to 4
A:
A:
        5341.9943,
                      Layer 5 to 4
                                         Message = aapI!X1hAwP) `8oH~W0g
        5350.8941,
                       Layer 5 to 4
                                         Message = bLb~iS=(pZExwbL6~iS=
A:
                       Layer 5 to 4
                                         Message = d ZcRNJFB=952-)%~zvr
        5370.5260,
A:
        5382.9869,
                      Layer 5 to 4
                                         Message = dq~.dIVdq~.;IVdq~.;I
A:
        5393.0050,
                      Layer 5 to 4
                                         Message = e&Ed%ec$Cb#Ba!A`~? }
                                         Message = f8i;1>fBrEuHxK{N\sim Q\$T}
        5406.9817,
                      Layer 5 to 4
A:
        5413.8808,
                      Layer 5 to 4
                                         Message = gfxqU9{gD(jN2t3 < cG+
A:
A:
        5427.4872,
                      Layer 5 to 4
                                         Message = h^SI>4*hi TJ?5+~tj`
                      Layer 5 to 4
        5430.7167,
A:
                                         Message = ipw \sim (x6 = EiSZbipw \sim (x6)
A:
        5447.5115, Layer 5 to 4
                                         Message = d=Vo*C[txja24Mf~9Rk
       5457.6356, Layer 5 to 4 Message = k7b.X\%OyFp < k3^*T \sim KuB
A:
```

```
A:
       5473.8225,
                      Layer 5 to 4
                                        Message = lJ(dB)[9uS1ml)eC~]:v
A:
       5486.9462,
                      Layer 5 to 4
                                        Message = m]L;+xhWG6&scmB1~n^M
       5496.8996,
                      Layer 5 to 4
                                        Message = nopgrstuvwxyz{n}~!#$
A:
                     Layer 5 to 4
A:
       5504.4065,
                                        Message = 0$6I[n#5HZm!4GYo~3FX
       5511.9413,
                     Layer 5 to 4
                                        Message = pfZ~EixSw=b(Lp3ZpEix
A:
       5530.1916,
                     Layer 5 to 4
                                        Message = dI~V.d;qI~V.2;qI~q.d
A:
A:
       5533.3845,
                     Layer 5 to 4
                                        Message = r[E.u H1xbK4{eN7~hr}:
                     Layer 5 to 4
                                        Message = snid YTOJE?:50+&~yts
A:
       5537.0320,
A:
       5539.6201,
                     Layer 5 to 4
                                        Message = t #x; HTamy (4AMYfr~-9F
                      Layer 5 to 4
       5558.6781,
                                        Message = uuSq10m-Ki)Ge%Ca~>]z
A:
                      Layer 5 to 4
       5566.7694,
A:
                                        Message = vHvIxJyKzL\{M|N\}O\sim P!Q
       5577.4838,
                     Layer 5 to 4
A:
                                        Message = wZ=wbE(iLxpS6wZ=\sim bE(
       5594.6680,
                     Layer 5 to 4
Α:
                                        Message = dmbVx?4) {peY2C7, ~sh]
       5609.1400,
                     Layer 5 to 4
                                        Message = yf(.4yAGMSY)^13x^1-3
A:
A:
       5619.3622,
                     Layer 5 to 4
                                        Message = z4Ld{5ze|6Nf}70g~8Ph
                                        Message = {Gp;e0Y{NwCl7a,U~Js>
A:
       5623.3991,
                     Layer 5 to 4
                     Layer 5 to 4
       5631.9849,
                                        Message = |Y6qN+fC|Z7rO,gD\sim[8s]
A:
       5633.2439,
                     Layer 5 to 4
                                        Message = }lZI7&raO},xgUD2~m[J
A:
                                        5633.8504,
                      Layer 5 to 4
A:
A:
       5646.6449,
                     Layer 5 to 4
                                        Message = !3EVhy->Pbs'2J[m~2DU
       5664.9149,
                     Layer 5 to 4
                                        Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
Α:
A:
       5669.0550,
                     Layer 5 to 4
                                        Message = $X$d:oFzQ(]3h>sJ~U,a
                                        Message = fS%iR:iQ9!h38~g07
                     Layer 5 to 4
A:
       5670.8266,
       5685.6052,
                     Layer 5 to 4
                                        Message = '2=IT'kv$x:FQ]hs\sim,7C
A:
       5690.8205,
                     Layer 5 to 4
       5703.4661,
                     Layer 5 to 4
                                        Message = (Eb~=Z(6SpxLi(Eb~=Zw
A:
                      Layer 5 to 4
                                        Message = dW(V'U\&) %S$R2Q!P~O}N
A:
       5718.5010,
       5730.4241,
                      Layer 5 to 4
                                        Message = *jL.nP2r*6vX:z]>~aC%
A:
A:
       5740.7433,
                     Layer 5 to 4
                                        Message = +|pdWK>2&+k RF9-~rfY
       5757.0048,
                     Layer 5 to 4
A:
                                        Message = ,16;AFKPUZ,ejoty~&+0
A:
       5763.2279,
                     Layer 5 to 4
                                        Message = -DZq*AWn'=T-$:Qh~7Ne
A:
       5774.6546,
                     Layer 5 to 4
                                        Message = .f~Iq;d.V~Iq.d3V~Iq;
                                        Message = xiE~Z6pL(b=wSxiE~Z6p
A:
       5784.1993,
                     Layer 5 to 4
A:
       5801.8088,
                     Layer 5 to 4
                                        Message = d\{iVD1|jWE2\}2X03\sim1YG
       5803.7039,
                     Layer 5 to 4
                                        Message = 10x.-,+*) ('&%$\$1~}|{
A:
                                        Message = 2CSdt'7HXiy, <M^n21BR</pre>
A:
       5814.2562,
                      Layer 5 to 4
                     Layer 5 to 4
                                        Message = 3Uw;^!Df*Ln2Tv:]~3e)
A:
       5827.6219,
       5844.6716,
                     Layer 5 to 4
                                        Message = 4h=qGzP&Yxc8lBuK~T4^
A:
       5859.4534,
                     Layer 5 to 4
                                       Message = 5zbI0u]D+pW>&kR9~fM5
A:
A:
       5876.1188,
                     Layer 5 to 4
                                        Message = 6x(~wpibZSLE=6x(~wpi
       5892.9222,
                     Layer 5 to 4
                                        Message = d7LVaku!, 6AK2`3t\sim+5?
       5907.1210,
                     Layer 5 to 4
                                        Message = 8T8.Jf?[w5Qm+Gc~<Xt
A:
                     Layer 5 to 4
                                        Message = 9g693a0^-Z*W'T$Q~N\{K
A:
       5926.6653,
                      Layer 5 to 4
       5927.4927,
                                        Message = :yZ;:[<{]=|^>} ?~`A!
A:
       5932.6867,
                      Layer 5 to 4
                                        Message = ;.~qd;I;.~qdVI;.~qdV
A:
A:
       5948.3350,
                     Layer 5 to 4
                                        Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
A:
       5949.2558,
                     Layer 5 to 4
                                        Message = =Si\sim6Lb=xEZp(=Si\sim6Lb
A:
       5966.2006,
                     Layer 5 to 4
                                        Message = dfxV}Gn7>(Ov2q0W~Ho8)
       5977.5203,
                     Layer 5 to 4
                                        Message = ?xS.gBzU0?D|W2kF\sim Y4m
A:
A:
       5986.7327,
                     Layer 5 to 4
                                        Message = AfwdP<)s`LA%o[34~kWD</pre>
       5999.7383,
                      Layer 5 to 4
                                        Message = B?=;97531x-B)'%\#\sim|zx
A:
       6006.0508,
                      Layer 5 to 4
                                        Message = CRbq#2BQap!1CP`o~0?0
A:
       6018.7722,
                      Layer 5 to 4
                                        Message = De(Ij-No2St7XD<^~Bc&</pre>
A:
       6023.3207,
                     Layer 5 to 4
                                        Message = EwL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL) )))
       6029.3290,
                     Layer 5 to 4
                                        Message = d_pV<\#gM3w^D2nTF\sim eK1
A:
                     Layer 5 to 4
                                        Message = G>6.&{skcZRJB91)Gvnf
       6031.0960,
A:
A:
       6049.7918,
                     Layer 5 to 4
                                        Message = HQZdmv!+4=GPYclu~H3<
                     Layer 5 to 4
                                        Message = Id~; Vq.Id~; Vq.Id~; Iq
       6068.8149,
A:
A:
       6070.1055, Layer 5 to 4
                                        Message = JfEq?l:g5b0]+W3R~MyJ
       6082.0940,
                     Layer 5 to 4 Message = K+iI)gG'eE%cC#aA~ >|
A:
```

```
A:
      6091.9059,
                  Layer 5 to 4
                                Message = LLx~pbSE6(wiZL=x~pbS
A:
      6101.1496,
                  Layer 5 to 4
                                 Message = dPMVY] `cfilo2ux{~$'*
      6119.7608,
                  Layer 5 to 4
                                 Message = NcwNCWl#7Lau,AUj~5J
A:
                  Layer 5 to 4
A:
      6137.6799,
                                Message = Ou=dORxAgxU{Dj2X~Gm5
      6144.1988,
                 Layer 5 to 4
                                Message = P*b;sP' 8pJ$[5mG~X2j
A:
      6147.6126,
                 Layer 5 to 4
                                Message = Q<(q]HQ|hS>*s J5~jUA
A:
A:
      6163.4660,
                 Layer 5 to 4
                                 Message = ROLIFC?R9630-*'$~{xu
                 Layer 5 to 4
                                 Message = Sfp~x=LZSw(6ES3p~x=L
A:
      6171.8183,
A:
      6189.0936,
                  Layer 5 to 4
                                 Message = dt6Vv8Xx:Tz<2|> ~Aa#
                  Layer 5 to 4
                                 Message = U) Z. `3e8j=UCtHyM~R&W
      6194.5269,
A:
                  Layer 5 to 4
A:
      6211.7761,
                                 Message = V;~dI.qV;~dV.qV;~dI.
                  Layer 5 to 4
A:
      6220.2864,
                                 Message = WNE; 2) }tkbXOW<3*~ulc</pre>
                                 Message = Xaiqy\$, 4 < EMU^Xnv^)19
      6232.1755,
                 Layer 5 to 4
Α:
      6252.1393,
                 Layer 5 to 4
A:
                                 Message = YsxIc|8Rl(B[u1Ye~:Tn
A:
      6264.7675,
                 Layer 5 to 4
                                 Message = Z(S~LwEp=i6bxZ(Z~LwE
A:
      6266.8577,
                 Layer 5 to 4
                                 Message = d:wV5rQ0mL+h2&cB[^<y</pre>
                 Layer 5 to 4
      6276.2324,
                                 Message = ]f=.|m^N>x}n O30~]`P
A:
                 Layer 5 to 4
                                Message = ^`bdfhjlnprtvxz|~#^'
      6276.6514,
A:
                                 Message = r(;Ocv,?Sgz0DWk~4H
      6278.3229,
                 Layer 5 to 4
A:
                                Message = \'Lq8^%Jo6[#Hm4Y~Fk2
A:
      6291.1213,
                 Layer 5 to 4
      6295.1034,
                 Layer 5 to 4
                                Message = aapI!X1hAwP) `8oH~W0g
Α:
A:
      6302.0818,
                 Layer 5 to 4
                                Message = bLb~iS=(pZExwbL6~iS=
                 Layer 5 to 4
A:
      6307.4838,
                                 Message = d ZcRNJFB=952-)%~zvr
      6318.8461,
                 Layer 5 to 4
                                 Message = dq~.dIVdq~.;IVdq~.;I
A:
      6325.6508,
                 Layer 5 to 4
                                Message = e&Ed%ec$Cb#Ba!A`~? }
      6332.1751,
                  Layer 5 to 4
                                Message = ffi;l>fBrEuHxK3N~Q$T
A:
                  Layer 5 to 4
A:
      6345.0984,
                                Message = gKxqU9\{gD(jN2tX<\sim cG+
      6348.1118,
                  Layer 5 to 4
                                 Message = h^SI>4*hi TJ?5+~tj`
A:
      6354.0856,
                 Layer 5 to 4
                                 Message = ipw \sim (x6 = EiSZbipw \sim (x6)
                 Layer 5 to 4
A:
      6356.2277,
                                Message = d%=Vo*C[txja24Mf~9Rk
A:
      6357.9339,
                 Layer 5 to 4
                                Message = k7b.X\%OyFp< k3^*T\sim KuB
A:
      6373.8805,
                 Layer 5 to 4
                                 Message = lJ(dB)[9uS1ml)eC~]:v
A:
      6387.9028,
                 Layer 5 to 4
                                 Message = m]L;+xhWG6&scmB1~n^M
                                 Message = nopqrstuvwxyz\{n\} \sim ! \#\$
A:
      6401.2495,
                 Layer 5 to 4
      6419.8632,
                  Layer 5 to 4
                                Message = of6I[n#5HZm!4G3o~3FX
A:
      6420.3669,
                  Layer 5 to 4
                                 Message = p6Z~EixSw=b(Lp6ZpEix
                 Layer 5 to 4
A:
      6425.0371,
                                Message = dI~V.d;qI~V.2;qI~q.d
      6437.9059,
                 Layer 5 to 4
                                Message = r[E.u_H1xbK4{eN7~hr}:
A:
      6442.5111,
                 Layer 5 to 4
                                Message = snid YTOJE?:50+&~yts
A:
A:
      6442.6449,
                 Layer 5 to 4
                                Message = t # x; HTamy (4AMYfr~-9F
      6451.8865,
                 Layer 5 to 4
                                Message = uuSq10m-Ki)Ge%Ca~>]z
                                Message = vHvIxJyKzL\{M|N\}O\sim P!Q
      6454.6037,
                 Layer 5 to 4
A:
                 Layer 5 to 4
A:
      6463.3958,
                                Message = wZ=wbE(iLxpS6wZ=~bE(
                  Layer 5 to 4
A:
      6472.3377,
                                 Message = dfbVx?4) {peY2C3, ~sh]
      6477.8244,
                  Layer 5 to 4
                                 Message = y!(.4yAGMSY`flrx~'-3
A:
A:
      6493.9522,
                  Layer 5 to 4
                                 Message = z4Ld{5ze|6Nf}70g~8Ph
A:
      6494.1675,
                 Layer 5 to 4
                                 Message = {Gp;e0Y{NwCl7a,U~Js>
A:
      6511.6603,
                 Layer 5 to 4
                                 Message = |Y6qN+fC|Z7rO,qD\sim[8s]
      6513.4199,
                 Layer 5 to 4
                                 Message = }lZI7&raO},xgUD2~m[J
A:
A:
      6527.1490,
                 Layer 5 to 4
                                 6531.1302,
                  Layer 5 to 4
                                Message = !3EVhy->Pbs'2J[m~2DU
A:
      6542.1751,
                  Layer 5 to 4
                                 Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
A:
      6555.0558,
                  Layer 5 to 4
                                 Message = f$d:oFzQ(]3h>3J~U,a
      6559.7669,
A:
                 Layer 5 to 4
                                Message = %kS%jR:#iQ9!hP8~gO7
      6579.1140,
                 Layer 5 to 4
                                Message = &}wq&e XRLF?93-'~xrl
A:
                 Layer 5 to 4
                                Message = '2=IT'kv$x:FQ]hs\sim,7C
      6586.1303,
A:
A:
      6588.8045,
                 Layer 5 to 4
                                 Message = (Eb \sim = Z (6SpxLi (Eb \sim = Zw))
                 Layer 5 to 4
      6595.5656,
                                 Message = dW(V'U\&) %S$R2Q!P~O}N
A:
A:
      6608.0169, Layer 5 to 4
                                 Message = *jL.nP2r*6vX:z]>~aC%
      6617.7782, Layer 5 to 4 Message = +|pdWK>2&+k RF9-~rfY
A:
```

```
A:
      6635.6053,
                  Layer 5 to 4
                                 Message = ,16;AFKPUZ,ejoty~&+0
A:
      6655.0123,
                  Layer 5 to 4
                                 Message = -fZq*AWn'=T-$:3h~7Ne
      6670.0194,
                  Layer 5 to 4
                                 Message = .V~Iq;d.V~Iq.d.V~Iq;
A:
A:
      6674.2566,
                  Layer 5 to 4
                                 Message = xiE~Z6pL(b=wSxiE~Z6p
      6688.8934,
                  Layer 5 to 4
                                 Message = d\{iVD1|jWE2\}2X03\sim1YG
A:
      6688.9927,
                  Layer 5 to 4
                                 Message = 10x.-,+*) ('&%$\$1~}|{
A:
A:
      6698.2274,
                  Layer 5 to 4
                                 Message = 2CSdt'7HXiy, <M^n21BR</pre>
                  Layer 5 to 4
                                 Message = 3Uw;^!Df*Ln2Tv:]~3e)
A:
      6704.9110,
A:
      6717.0869,
                  Layer 5 to 4
                                 Message = 4h=qGzP&Yxc8lBuK~T4^
                  Layer 5 to 4
                                 Message = 5zbIOu]D+pW>&kR9~fM5
      6736.6340,
A:
                  Layer 5 to 4
A:
      6744.4378,
                                 Message = 6f(~wpibZSLE=63(~wpi
                  Layer 5 to 4
A:
      6764.1591,
                                 Message = d7LVaku!,6AK2`jt~+5?
                                 Message = 8T8.Jf\$?[w5Qm+Gc~<Xt
      6779.8570,
                  Layer 5 to 4
Α:
      6794.8108,
                  Layer 5 to 4
                                 Message = 9g693a0^-Z*W'T$Q~N\{K
A:
A:
      6801.8554,
                  Layer 5 to 4
                                 Message = :yZ;:[<{]=|^>} ?~`A!
A:
      6820.6575,
                  Layer 5 to 4
                                 Message = ;.~qd;I;.~qdVI;.~qdV
      6827.6516,
                  Layer 5 to 4
                                 Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
A:
                  Layer 5 to 4
      6837.5019,
                                 Message = =Si~6Lb=xEZp(=Si~6Lb
A:
      6851.8029,
                  Layer 5 to 4
A:
                                 Message = dfxV}Gn7>(Ov2g0W~Ho8
A:
      6869.0814,
                  Layer 5 to 4
                                 Message = ?fS.qBzU0?D|W23F~Y4m
      6888.3732,
                  Layer 5 to 4
                                 Message = A-wdP<)s`LA%o[H4~kWD</pre>
Α:
A:
      6906.5884,
                  Layer 5 to 4
                                 Message = B?=;97531x-B)'%\#~|zx
                  Layer 5 to 4
A:
      6909.1323,
                                 Message = CRbq#2BQap!1CP`o~0?0
      6924.4613,
                  Layer 5 to 4
                                 Message = De(Ij-No2St7XD<^~Bc&</pre>
A:
      6938.0675,
                  Layer 5 to 4
                                 Message = EwL\sim S(Zxb6i=pEEL\sim S(Z
      6957.7491,
                  Layer 5 to 4
                                 Message = d,pV<\#gM3w^D2nTF\sim eK1
A:
                  Layer 5 to 4
A:
      6965.8337,
                                 Message = G>6.&{skcZRJB91)Gvnf
      6984.9532,
                  Layer 5 to 4
                                 Message = HQZdmv!+4=GPYclu~H3<</pre>
A:
A:
      6985.8623,
                  Layer 5 to 4
                                 Message = If~; Vq.Id~; Vq.3d~; Iq
      7004.9419,
                  Layer 5 to 4
A:
                                 Message = JvEq?1:g5b0]+W&R~MyJ
A:
      7016.3170,
                  Layer 5 to 4
                                 Message = K+iI)gG'eE%cC#aA~ >|
A:
      7017.5584,
                  Layer 5 to 4
                                 Message = LLx~pbSE6(wiZL=x~pbS
A:
      7037.1620,
                  Layer 5 to 4
                                 Message = dPMVY] `cfilo2ux{~$'*
      7054.3890,
                  Layer 5 to 4
                                 Message = NcwNCWl#7Lau,AUj~5J
Α:
      7068.4202,
                  Layer 5 to 4
                                 Message = Ou=dORxAgxU{Dj2X~Gm5
A:
                                 Message = P*b;sP' 8pJ$[5mG~X2j
A:
      7070.2378,
                  Layer 5 to 4
                  Layer 5 to 4
A:
      7079.6153,
                                 Message = Q<(q]HQ|hS>*s J5~jUA
      7086.4441,
                  Layer 5 to 4
                                 Message = RfLIFC?R9630-*3^{\times}{xu
A:
      7099.3071,
                  Layer 5 to 4
                                 Message = Sbp~x=LZSw(6ESbp~x=L
A:
A:
      7106.3298,
                  Layer 5 to 4
                                 Message = dt6Vv8Xx:Tz<2|> ~Aa#
      7118.0752,
                  Layer 5 to 4
                                 Message = U) Z. `3e8j=UCtHyM~R&W
      7122.8054,
                  Layer 5 to 4
                                 Message = V;~dI.qV;~dV.qV;~dI.
A:
      7123.0448,
                  Layer 5 to 4
                                 Message = WNE; 2) } tkbXOW<3*~ulc</pre>
A:
      7126.1586,
                  Layer 5 to 4
                                 Message = Xaiqy$,4<EMU^Xnv~)19</pre>
A:
      7140.0024,
                  Layer 5 to 4
                                 Message = YsxIc|8Rl(B[u1Ye~:Tn
A:
A:
      7153.4555,
                  Layer 5 to 4
                                 Message = Z(S~LwEp=i6bxZ(Z~LwE
A:
      7159.1702,
                  Layer 5 to 4
                                 Message = dfwV5rQ0mL+h2&3B[^<y]
A:
      7166.4930,
                  Layer 5 to 4
                                 Message = ]M=.|m^N>x}n O?0~]`P
      7180.3882,
                  Layer 5 to 4
                                 Message = ^`bdfhjlnprtvxz|~#^'
A:
                                 Message = r(;Ocv,?Sgz0DWk~4H
A:
      7197.1748,
                  Layer 5 to 4
                  Layer 5 to 4
                                 Message = \label{eq:lq8^8Jo6[#Hm4Y~Fk2]}
      7209.4221,
A:
                  Layer 5 to 4
      7209.6568,
                                 Message = aapI!X1hAwP) `8oH~W0g
A:
      7214.0436,
                  Layer 5 to 4
                                 Message = bLb~iS=(pZExwbL6~iS=
A:
      7222.9689,
                  Layer 5 to 4
                                 Message = d ZcRNJFB=952-)%~zvr
      7231.3650,
                  Layer 5 to 4
                                 Message = dq~.dIVdq~.;IVdq~.;I
A:
      7243.6727,
                  Layer 5 to 4
                                 Message = efEd%ec$Cb#Ba!3`~? }
A:
A:
      7258.8009,
                  Layer 5 to 4
                                 Message = f8i;l>fBrEuHxK{N~Q$T
                  Layer 5 to 4
      7278.4489,
A:
                                 Message = qKxqU9\{qD(jN2tX<\sim cG+
A:
      7284.0321,
                  Layer 5 to 4
                                 Message = h^SI>4*\}hi TJ?5+~tj`
      7300.3195,
                  Layer 5 to 4
                                 Message = ipw~(x6=EiSZbipw~(x6
A:
```

```
A:
      7302.1486,
                  Layer 5 to 4
                                 Message = d%=Vo*C[txja24Mf~9Rk
A:
      7303.7565,
                  Layer 5 to 4
                                 Message = k7b.X\%OyFp<k3^*T\sim KuB
      7308.5840,
                  Layer 5 to 4
                                 Message = lJ(dB)[9uS1ml)eC~]:v
A:
                  Layer 5 to 4
A:
      7323.8101,
                                 Message = m]L;+xhWG6&scmB1~n^M
      7329.5082,
                 Layer 5 to 4
                                 Message = nfpqrstuvwxyz{n}~!#$
A:
      7336.8622,
                 Layer 5 to 4
A:
                                 Message = 0$6I[n#5HZm!4GYo~3FX
A:
      7355.2310,
                 Layer 5 to 4
                                 Message = p6Z~EixSw=b(Lp6ZpEix
                 Layer 5 to 4
                                 Message = dI~V.d;qI~V.2;qI~q.d
A:
      7360.6294,
A:
      7371.0325,
                  Layer 5 to 4
                                 Message = r[E.u H1xbK4{eN7~hr:
      7375.2668,
                  Layer 5 to 4
                                 Message = snid YTOJE?:50+&~yts
A:
                  Layer 5 to 4
      7382.1607,
A:
                                 Message = t # x; HTamy (4AMYfr~-9F
      7387.5525,
                  Layer 5 to 4
A:
                                 Message = uuSq10m-Ki)Ge%Ca~>]z
A:
      7387.8644,
                 Layer 5 to 4
                                 Message = vHvIxJyKzL\{M|N\}O\sim P!Q
      7389.4943,
                 Layer 5 to 4
                                 Message = wf=wbE(iLxpS6w3=~bE(
A:
A:
      7403.0024,
                 Layer 5 to 4
                                 Message = dmbVx?4) {peY2C7, ~sh]
A:
      7414.5835,
                 Layer 5 to 4
                                 Message = y!(.4yAGMSY`flrx~'-3
                 Layer 5 to 4
      7417.9969,
                                 Message = z4Ld{5ze|6Nf}70g~8Ph
A:
                 Layer 5 to 4
      7426.4405,
                                 Message = {Gp;e0Y{NwCl7a,U~Js>
A:
      7437.4457,
                  Layer 5 to 4
                                 Message = |Y6qN+fC|Z7rO, qD\sim[8s]
A:
      7442.7140,
A:
                  Layer 5 to 4
                                 Message = }lZI7&raO},xgUD2~m[J
      7447.3754,
                 Layer 5 to 4
                                 Α:
                 Layer 5 to 4
      7451.2597,
                                 Message = !3EVhy->Pbs'2J[m~2DU
A:
      7453.5915,
                 Layer 5 to 4
                                 Message = \#\#i.Qt9]!Eh-Ps3[~Dg,
A:
      7464.5788,
                 Layer 5 to 4
                                 Message = $X$d:oFzQ(]3h>sJ~U,a
A:
      7469.0061,
                  Layer 5 to 4
                                 Message = %kS%$jR:#iQ9!hP8~gO7
      7477.3831,
                  Layer 5 to 4
                                 Message = &}wq&e XRLF?93-'~xrl
A:
      7490.9333,
                  Layer 5 to 4
                                 Message = '2=IT'kv$x:FQ]hs\sim,7C
A:
      7508.2110,
                  Layer 5 to 4
                                 Message = (Eb \sim = Z (6SpxLi(Eb \sim = Zw))
A:
A:
      7515.5973,
                 Layer 5 to 4
                                 Message = dW(V'U\&) %S$R2Q!P~O}N
A:
                 Layer 5 to 4
                                 Message = *jL.nP2r*6vX:z]>~aC%
      7515.8984,
A:
      7516.5140,
                 Layer 5 to 4
                                 Message = +|pdWK>2&+k RF9-~rfY
A:
      7524.0893,
                 Layer 5 to 4
                                 Message = , f6; AFKPUZ, ejo3y~&+0
A:
      7538.6774,
                 Layer 5 to 4
                                 Message = -DZq*AWn'=T-$:Qh~7Ne
      7541.5510,
                 Layer 5 to 4
                                 Message = .V~Iq;d.V~Iq.d.V~Iq;
A:
      7558.0859,
                  Layer 5 to 4
                                 Message = xiE~Z6pL(b=wSxiE~Z6p
A:
      7559.7165,
                  Layer 5 to 4
                                 Message = d\{iVD1|jWE2\}2X03\sim1YG
                 Layer 5 to 4
A:
      7565.2690,
                                 Message = 10x.-,+*) ('&%$\$1~}|{
      7565.6138,
                 Layer 5 to 4
                                Message = 2CSdt'7HXiy,<M^n21BR</pre>
A:
      7580.2817,
A:
                 Layer 5 to 4
                                Message = 3Uw;^!Df*Ln2Tv:]~3e)
A:
      7583.7593,
                 Layer 5 to 4
                                 Message = 4h=qGzP&Yxc8lBuK~T4^
      7591.5769,
                 Layer 5 to 4
                                 Message = 5fbI0u]D+pW>&k39~fM5
A:
      7601.8954,
                 Layer 5 to 4
                                 Message = 6x(~wpibZSLE=6x(~wpi
      7605.3984,
                 Layer 5 to 4
                                 Message = d7LVaku!, 6AK2`jt~+5?
A:
                  Layer 5 to 4
      7621.3501,
A:
                                 Message = 8T8.Jf$?[w5Qm+Gc~<Xt
      7640.0927,
                  Layer 5 to 4
                                 Message = 9g693a0^-Z*W'T$Q~N\{K
A:
                                 Message = :yZ;:[<{]=|^>}_?~`A!
A:
      7647.3653,
                  Layer 5 to 4
      7658.4797,
                 Layer 5 to 4
A:
                                 Message = ;.~qd;I;.~qdVI;.~qdV
A:
      7677.4884,
                 Layer 5 to 4
                                 Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
      7696.8483,
                 Layer 5 to 4
                                 Message = =Si\sim6Lb=xEZp(=Si\sim6Lb
A:
A:
      7698.5298,
                  Layer 5 to 4
                                 Message = dfxV}Gn7>(Ov2g3W~Ho8
                  Layer 5 to 4
                                 Message = ?xS.gBzU0?D|W2kF~Y4m
      7700.1647,
A:
      7717.2813,
                  Layer 5 to 4
                                 Message = A-wdP<)s`LA%o[H4~kWD</pre>
A:
      7736.5301,
                  Layer 5 to 4
                                 Message = B?=;97531x-B)'%\#\sim|zx
A:
      7751.1521,
                  Layer 5 to 4
                                 Message = CRbq#2BQap!1CP`o~0?0
      7762.2629,
                 Layer 5 to 4
                                 Message = De(Ij-No2St7XD<^~Bc&</pre>
A:
      7763.0441,
                 Layer 5 to 4
                                 Message = EwL\sim S(Zxb6i=pEEL\sim S(Z
A:
A:
      7771.7832,
                 Layer 5 to 4
                                 Message = d,pV<\#gM3w^D2nTF\sim eK1
                 Layer 5 to 4
      7790.3161,
A:
                                 Message = G>6.&{skcZRJB91)Gvnf
A:
      7791.6614, Layer 5 to 4
                                 Message = HfZdmv!+4=GPYc3u~H3<</pre>
      7803.1531,
                 Layer 5 to 4
                                Message = Id~; Vq.Id~; Vq.Id~; Iq
A:
```

```
A:
      7803.5723,
                  Layer 5 to 4
                                Message = JvEq?l:g5b0]+W&R~MyJ
A:
      7810.0132,
                  Layer 5 to 4
                                Message = K+iI)gG'eE%cC#aA~ >|
      7821.9398,
                 Layer 5 to 4
                                Message = LLx~pbSE6(wiZL=x~pbS
A:
                 Layer 5 to 4
A:
      7831.8052,
                                Message = dPMVY] `cfilo2ux{~$'*
      7840.1740,
                 Layer 5 to 4
                                Message = NcwNCWl#7Lau,AUj~5J
A:
      7853.9305,
                 Layer 5 to 4
                                Message = Ou=dORxAgxU{Dj2X~Gm5
A:
A:
      7859.0209,
                 Layer 5 to 4
                                Message = P*b;sP' 8pJ$[5mG~X2j
                 Layer 5 to 4
                                Message = Qf(q)HQ|hS>*s 35~jUA
A:
      7874.8148,
A:
      7881.4975,
                 Layer 5 to 4
                                Message = ROLIFC?R9630-*'$~{xu
      7897.6506,
                  Layer 5 to 4
                                Message = Sbp \sim x = LZSw (6ESbp \sim x = L
A:
                  Layer 5 to 4
      7902.5147,
A:
                                Message = dt6Vv8Xx:Tz<2|> ~Aa#
      7914.6546,
                 Layer 5 to 4
                                Message = U) Z. `3e8j=UCtHyM~R&W
A:
                                Message = V;~dI.qV;~dV.qV;~dI.
      7929.1338,
                 Layer 5 to 4
Α:
      7941.1219,
                 Layer 5 to 4
                                Message = WNE; 2) }tkbXOW<3*~ulc</pre>
A:
A:
      7945.3126,
                 Layer 5 to 4
                                Message = Xaiqy$,4<EMU^Xnv~)19</pre>
A:
      7958.8553,
                 Layer 5 to 4
                                Message = YsxIc|8Rl(B[u1Ye~:Tn
                 Layer 5 to 4
      7971.4999,
                                Message = ZfS~LwEp=i6bxZ3Z~LwE
A:
      7988.5483,
                 Layer 5 to 4
                                Message = d:wV5rQ0mL+h2&cB[^<y</pre>
A:
                 Layer 5 to 4
                                Message = ]M=.|m^N>x}n O?0~]`P
      8000.3266,
A:
A:
      8018.4944,
                 Layer 5 to 4
                                Message = ^`bdfhjlnprtvxz|~#^'
      8019.0525,
                 Layer 5 to 4
                                Message =
                                           r(;Ocv,?Sgz0DWk~4H
Α:
                                Message = 'Lq8^%Jo6[#Hm4Y~Fk2
                 Layer 5 to 4
      8038.4772,
Α:
      8050.0849,
                 Layer 5 to 4
                                Message = aapI!X1hAwP) `8oH~W0g
A:
      8060.8020,
                 Layer 5 to 4
                                Message = bLb~iS=(pZExwbL6~iS=
A:
      8063.6972,
                 Layer 5 to 4
                                Message = d ZcRNJFB=952-)%~zvr
      8083.0361,
                 Layer 5 to 4
                                Message = df~.dIVdq~.;IV3q~.;I
A:
                 Layer 5 to 4
A:
      8091.9273,
                                Message = e&Ed%ec$Cb#Ba!A`~? }
      8106.2708,
                 Layer 5 to 4
                                Message = f8i;l>fBrEuHxK{N~Q$T
A:
      8116.4941,
                 Layer 5 to 4
                                Message = gKxqU9\{gD(jN2tX<\sim cG+
      8119.5351,
                 Layer 5 to 4
                                Message = h^SI>4*hi TJ?5+~tj
A:
A:
      8130.8088,
                 Layer 5 to 4
                                Message = ipw \sim (x6 = EiSZbipw \sim (x6)
A:
      8148.0233, Layer 5 to 4
                                Message = d\%=Vo*C[txja24Mf~9Rk]
      8152.0531,
                                Message = k7b.X\%OyFp< k3^*T~KuB
A:
                 Layer 5 to 4
A:
      8160.9089,
                 Layer 5 to 4
                                Message = lJ(dB)[9uS1ml)eC~]:v
      8180.2544,
                 Layer 5 to 4
                                Message = mfL; +xhWG6&scm31~n^M
A:
A:
      8199.0724,
                 Layer 5 to 4
                                Message = nopqrstuvwxyz{n}~!#$
                 Layer 5 to 4
A:
      8213.7268,
                                Message = 0$6I[n#5HZm!4GYo~3FX]
      8229.6240,
                 Layer 5 to 4
A:
                                Message = p6Z~EixSw=b(Lp6ZpEix
      8234.8231,
                 Layer 5 to 4
                                Message = dI~V.d;qI~V.2;qI~q.d
A:
A:
      8234.8833,
                 Layer 5 to 4
                                Message = r[E.u H1xbK4{eN7~hr}:
      8247.1412,
                 Layer 5 to 4
                                Message = snid YTOJE?:50+&~yts
      8265.7370,
                 Layer 5 to 4
                                Message = t # x; HTamy (4AMYfr~-9F
A:
      8284.7465,
                 Layer 5 to 4
A:
                                Message = uuSq10m-Ki)Ge%Ca~>]z
                  Layer 5 to 4
      8297.6194,
A:
                                Message = vfvIxJyKzL\{M|N30\sim P!Q
      8312.4459,
                 Layer 5 to 4
                                Message = wZ=wbE(iLxpS6wZ=\sim bE(
A:
A:
      8322.2301,
                 Layer 5 to 4
                                Message = dmbVx?4) {peY2C7, ~sh]
A:
      8324.6645,
                 Layer 5 to 4
                                Message = y!(.4yAGMSY`flrx~'-3
A:
      8339.8254,
                 Layer 5 to 4
                                Message = z4Ld{5ze|6Nf}70q~8Ph
      8349.3785,
                 Layer 5 to 4
                                Message = {Gp;e0Y{NwCl7a,U~Js>
A:
A:
      8367.7237,
                 Layer 5 to 4
                                Message = |Y6qN+fC|Z7rO, qD\sim[8s]
      8376.3250,
                 Layer 5 to 4
                                Message = }lZI7&raO},xgUD2~m[J
A:
                  Layer 5 to 4
                                8378.2385,
A:
      8397.5254,
                 Layer 5 to 4
                                Message = !fEVhy->Pbs'2J3m~2DU
A:
      8413.5578,
                 Layer 5 to 4
                                Message = \#\#i.Qt9]!Eh-Ps8[~Dq,
      8429.3575,
                 Layer 5 to 4
                                Message = $X$d:oFzQ(]3h>sJ~U,a
A:
                 Layer 5 to 4
                                Message = %kS%jR:#iQ9!hP8~gO7
      8434.5433,
A:
A:
      8453.1902,
                 Layer 5 to 4
                                Layer 5 to 4
      8471.9759,
                                Message = '2=IT'kv$x:FQ]hs\sim,7C
A:
A:
      8482.1951,
                 Layer 5 to 4
                                Message = (Eb \sim = Z (6SpxLi(Eb \sim = Zw))
      8497.0904,
                 Layer 5 to 4 Message = dW(V'U\&) %S$R2Q!P~O}N
A:
```

```
A:
       8502.5352,
                      Layer 5 to 4
                                        Message = *jL.nP2r*6vX:z]>~aC%
A:
       8513.0883,
                      Layer 5 to 4
                                        Message = +fpdWK>2&+k RF3-~rfY
       8518.6894,
                      Layer 5 to 4
                                        Message = ,16;AFKPUZ,ejoty~&+0
A:
                      Layer 5 to 4
A:
       8536.6077,
                                        Message = -DZq*AWn'=T-$:Qh~7Ne
       8548.5434,
                     Layer 5 to 4
                                        Message = .V~Iq;d.V~Iq.d.V~Iq;
A:
       8552.3350,
                     Layer 5 to 4
                                        Message = xiE~Z6pL(b=wSxiE~Z6p
A:
A:
       8558.5674,
                     Layer 5 to 4
                                        Message = d\{iVD1|jWE2\}2X03\sim1YG
                     Layer 5 to 4
                                        Message = 10x.-,+*) ('&%$\$1~}|{
A:
       8565.7829,
A:
       8576.5540,
                     Layer 5 to 4
                                        Message = 2CSdt'7HXiy, <M^n21BR</pre>
A:
                      Layer 5 to 4
                                        Message = 3Uw; ^!Df*Ln2Tv:]~3e)
       8586.5770,
                      Layer 5 to 4
                                        Message = 4f=qGzP&Yxc8lB3K~T4^
A:
       8603.7111,
                                        Message = 5zbIOu]D+pW>&kR9~fM5
                     Layer 5 to 4
A:
       8616.4398,
                                        Message = 6x(~wpibZSLE=6x(~wpi
       8628.1641,
                     Layer 5 to 4
Α:
       8637.4672,
                     Layer 5 to 4
                                        Message = d7LVaku!,6AK2`jt~+5?
A:
A:
       8655.3344,
                     Layer 5 to 4
                                        Message = 8T8.Jf$?[w5Qm+Gc~<Xt
A:
       8668.1218, Layer 5 to 4
                                        Message = 9g693a0^-Z*W'T$Q~N\{K
       8686.5284,
                     Layer 5 to 4
                                        Message = :yZ;:[<{]=|^>} ?~`A!
A:
                     Layer 5 to 4
                                        Message = ;.~qd;I;.~qdVI;.~qdV
       8687.3510,
A:
                     Layer 5 to 4
       8691.8194,
A:
                                        Message = <AEIMQ<Y^bfjnrvz~%) -
A:
       8693.0597,
                      Layer 5 to 4
                                        Message = =fi~6Lb=xEZp(=3i~6Lb
       8697.5484,
                     Layer 5 to 4
                                        Message = dfxV}Gn7>(Ov2g0W~Ho8
Α:
       8700.1885,
                     Layer 5 to 4
A:
                                        Message = ?xS.gBzU0?D|W2kF\sim Y4m
                     Layer 5 to 4
A:
       8711.8718,
                                        Message = A-wdP<)s`LA%o[H4~kWD
       8713.4193,
                     Layer 5 to 4
                                        Message = B?=;97531x-B)'%\#\sim|zx
A:
       8721.9084,
                     Layer 5 to 4
                                        Message = CRbq#2BQap!1CP`o~0?0
       8737.3667,
                     Layer 5 to 4
                                        Message = De(Ij-No2St7XD<^~Bc&</pre>
A:
                      Layer 5 to 4
A:
       8746.5524,
                                        Message = EwL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL) )))
       8750.0277,
                      Layer 5 to 4
                                        Message = d, pV < \#gM3w^D2nTF \sim eK1
A:
       8759.3878,
                     Layer 5 to 4
                                        Message = Gf6.&{skcZRJB93)Gvnf
                                        Message = HQZdmv!+4=GPYclu~H3<</pre>
       8774.0614,
                     Layer 5 to 4
A:
A:
       8793.9081, Layer 5 to 4
                                        Message = Id~; Vq.Id~; Vq.Id~; Iq
A:
       8796.4954,
                     Layer 5 to 4
                                        Message = JvEq?l:q5b0]+W&R~MyJ
       8802.2762,
                                        Message = K+iI)gG'eE%cC#aA~ >|
A:
                     Layer 5 to 4
A:
       8819.1406,
                     Layer 5 to 4
                                        Message = LLx~pbSE6(wiZL=x~pbS
       8820.5381,
                     Layer 5 to 4
                                        Message = dPMVY] `cfilo2ux{~$'*
A:
       8826.9464,
                      Layer 5 to 4
                                        Message = NcwNCWl#7Lau,AUj~5J
                                        Message = Ou=dORxAgxU{Dj2X~Gm5
A:
       8832.4555,
                     Layer 5 to 4
       8842.7972,
                     Layer 5 to 4
                                        Message = Pfb;sP'_8pJ$[53G~X2j
A:
A:
       8856.5836,
                     Layer 5 to 4
                                        Message = Q<(q]HQ|hS>*s J5~jUA
A:
       8864.7545,
                     Layer 5 to 4
                                        Message = ROLIFC?R9630-*'$~{xu
       8873.2470,
                     Layer 5 to 4
                                        Message = Sbp~x=LZSw (6ESbp~x=L
       8886.0494,
                     Layer 5 to 4
                                        Message = dt6Vv8Xx:Tz<2|> ~Aa#
A:
                     Layer 5 to 4
                                        Message = U) Z. `3e8j=UCtHyM~R&W
A:
       8895.2395,
                      Layer 5 to 4
                                        Message = V;~dI.qV;~dV.qV;~dI.
A:
       8914.0226,
       8922.0723,
                      Layer 5 to 4
                                        Message = WNE;2) }tkbXOW<3*~ulc</pre>
A:
A:
       8932.9498,
                     Layer 5 to 4
                                        Message = Xaiqy$,4<EMU^Xnv~)19</pre>
       8951.1339,
                     Layer 5 to 4
A:
                                        Message = YfxIc|8Rl(B[u1Ye~:Tn
A:
       8970.5651,
                     Layer 5 to 4
                                        Message = Z(S~LwEp=i6bxZ(Z~LwE
       8971.7036,
                     Layer 5 to 4
                                        Message = d:wV5rQ0mL+h2&cB[^<y</pre>
A:
                                        Message = ]M=.|m^N>x}n O?0~]`P
A:
       8986.9196,
                     Layer 5 to 4
       9001.8595,
                     Layer 5 to 4
                                        Message = ^`bdfhjlnprtvxz|~#^'
A:
                                        Message = r(;Ocv,?Sgz0DWk~4H
                      Layer 5 to 4
       9015.6596,
A:
                                        Message = \frac{1}{4}Lq8^%Jo6[#Hm4Y~Fk2
       9035.3151,
                      Layer 5 to 4
       9039.6468,
A:
                      Layer 5 to 4
                                        Message = aapI!X1hAwP) `8oH~W0g
                                        Message = bLb~iS=(pZExwbL6~iS=
       9042.2869,
                     Layer 5 to 4
A:
       9054.6900,
                     Layer 5 to 4
                                        Message = dfZcRNJFB=952-3%~zvr
A:
A:
       9072.4525,
                     Layer 5 to 4
                                        Message = dq~.dIVdq~.;IVdq~.;I
                     Layer 5 to 4
       9086.4069,
A:
                                        Message = e&Ed%ec$Cb#Ba!A`~? }
A:
       9099.3315, Layer 5 to 4
                                        Message = f8i;l>fBrEuHxK{N~Q$T
       9101.7923, Layer 5 to 4 Message = gKxqU9\{gD(jN2tX<\sim cG+
A:
```

```
Message = h^SI>4*hi TJ?5+~tj`
A:
       9120.7543,
                      Layer 5 to 4
A:
       9136.3373,
                      Layer 5 to 4
                                        Message = ipw \sim (x6 = EiSZbipw \sim (x6)
       9139.4103,
                      Layer 5 to 4
                                        Message = d\%=Vo*C[txja24Mf~9Rk]
A:
       9147.3545,
                      Layer 5 to 4
A:
                                        Message = k7b.X%OyFp<k3^*T~KuB
       9164.3005,
                     Layer 5 to 4
                                        Message = lf(dB)[9uS1ml)3C~]:v
A:
       9176.9323,
                     Layer 5 to 4
                                        Message = m]L;+xhWG6&scmB1~n^M
A:
A:
       9179.3264,
                     Layer 5 to 4
                                         Message = nopqrstuvwxyz{n}~!#$
       9196.2970,
                     Layer 5 to 4
A:
                                        Message = 0$6I[n#5HZm!4GYo~3FX
A:
       9201.9567,
                     Layer 5 to 4
                                        Message = p6Z~EixSw=b(Lp6ZpEix
       9203.7977,
                      Layer 5 to 4
                                         Message = dI~V.d;qI~V.2;qI~q.d
A:
                      Layer 5 to 4
A:
       9205.3692,
                                         Message = r[E.u H1xbK4{eN7~hr}:
       9218.0530,
                      Layer 5 to 4
                                        Message = snid YTOJE?:50+&~yts
A:
                     Layer 5 to 4
       9234.1491,
                                        Message = t # x; HTamy (4AMYfr~-9F
Α:
       9241.5448,
                     Layer 5 to 4
                                        Message = uuSq10m-Ki)Ge%3a~>]z
A:
A:
       9261.1593,
                     Layer 5 to 4
                                         Message = vHvIxJyKzL\{M|N\}O\sim P!Q
A:
       9262.3597,
                     Layer 5 to 4
                                        Message = wZ=wbE(iLxpS6wZ=\sim bE(
       9276.7614,
                     Layer 5 to 4
                                        Message = dmbVx?4) {peY2C7, ~sh]
A:
       9287.1032,
                     Layer 5 to 4
                                        Message = y!(.4yAGMSY`flrx~'-3
A:
                     Layer 5 to 4
       9300.9207,
                                        Message = z4Ld{5ze|6Nf}70g~8Ph
A:
A:
       9312.6120,
                      Layer 5 to 4
                                        Message = {Gp;e0Y{NwCl7a,U~Js>
       9328.4137,
                     Layer 5 to 4
                                        Message = |Y6qN+fC|Z7rO, qD\sim[8s]
Α:
       9346.6436,
                     Layer 5 to 4
A:
                                        Message = }lZI7&raO},xgUD2~m[J
       9356.2473,
                     Layer 5 to 4
                                        Message = \sim f \sim \sim \sim \sim \sim 3 \sim \sim \sim
A:
       9366.4880,
                     Layer 5 to 4
                                        Message = !3EVhy->Pbs'2J[m~2DU
A:
       9381.7752,
                     Layer 5 to 4
                                        Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
                     Layer 5 to 4
       9394.5343,
                                        Message = $X$d:oFzQ(]3h>sJ~U,a
A:
                      Layer 5 to 4
                                        Message = %kS%jR:#iQ9!hP8~g07
A:
       9396.3181,
       9415.8271,
                      Layer 5 to 4
                                        Message = '2=IT'kv$x:FQ]hs\sim,7C
A:
       9423.3039,
                     Layer 5 to 4
       9425.7970,
                     Layer 5 to 4
                                        Message = (Eb~=Z(6SpxLi(Eb~=Zw
A:
A:
       9427.9789,
                     Layer 5 to 4
                                        Message = dW(V'U\&) %S$R2Q!P~O}N
A:
       9439.3761,
                     Layer 5 to 4
                                        Message = *fL.nP2r*6vX:z3>~aC%
       9451.8089,
A:
                     Layer 5 to 4
                                        Message = +|pdWK>2&+k RF9-~rfY
A:
       9470.0677,
                     Layer 5 to 4
                                        Message = ,16;AFKPUZ,ejoty~&+0
       9485.5739,
                     Layer 5 to 4
                                        Message = -DZq*AWn'=T-$:Qh~7Ne
A:
       9498.8528,
                      Layer 5 to 4
                                        Message = .V~Iq;d.V~Iq.d.V~Iq;
                     Layer 5 to 4
A:
       9517.2501,
                                        Message = xiE~Z6pL(b=wSxiE~Z6p
       9532.7988,
                     Layer 5 to 4
                                        Message = d\{iVD1|jWE2\}2X03\sim1YG
A:
       9539.0787,
A:
                     Layer 5 to 4
                                        Message = 10x.-,+*) ('&%$\$1~}|{
                     Layer 5 to 4
                                        Message = 2CSdt'7HXiy, <M^n21BR</pre>
A:
       9545.6666,
       9547.7659,
                     Layer 5 to 4
                                        Message = 3fw;^!Df*Ln2Tv3]~3e)
       9551.0931,
                     Layer 5 to 4
                                        Message = 4h=qGzP&Yxc8lBuK~T4^
A:
                     Layer 5 to 4
                                        Message = 5zbIOu]D+pW>&kR9~fM5
A:
       9551.3426,
                     Layer 5 to 4
       9565.3070,
                                         Message = 6x(~wpibZSLE=6x(~wpi
A:
A:
       9584.8506,
                      Layer 5 to 4
                                         Message = d7LVaku!,6AK2`jt~+5?
A:
       9593.1598,
                      Layer 5 to 4
                                         Message = 8T8.Jf?[w5Qm+Gc~<Xt
                                        Message = 9g693a0^-Z*W'T$Q~N{K}
       9606.2924,
                     Layer 5 to 4
A:
                                         Message = :yZ;:[<{]=|^>} ?~`A!
A:
       9606.3400,
                     Layer 5 to 4
       9625.5478,
                     Layer 5 to 4
                                         Message = ;.~qd;I;.~qdVI;.~qdV
A:
A:
       9631.9517,
                     Layer 5 to 4
                                        Message = <fEIMQ<Y^bfjnr3z~%) -</pre>
       9642.4320,
                     Layer 5 to 4
                                        Message = =Si~6Lb=xEZp(=Si~6Lb
A:
       9644.7217,
                      Layer 5 to 4
                                        Message = dfxV}Gn7>(Ov2g0W~Ho8
A:
       9647.1900,
                      Layer 5 to 4
                                        Message = ?xS.gBzU0?D|W2kF\sim Y4m
A:
       9652.4872,
                     Layer 5 to 4
                                        Message = A-wdP<)s LA%o[H4~kWD
       9662.6155,
                     Layer 5 to 4
                                        Message = B?=;97531x-B)'%\#\sim|zx
A:
                     Layer 5 to 4
       9668.1446,
                                        Message = CRbq#2BQap!1CP`o~0?0
A:
                     Layer 5 to 4
A:
       9676.5943,
                                         Message = De(Ij-No2St7XD<^~Bc&</pre>
       9690.1508,
                     Layer 5 to 4
                                        Message = EwL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL) )))
A:
       9694.5185, Layer 5 to 4
                                        Message = dfpV<#gM3w^D2n3F~eK1</pre>
A:
       9702.3982,
                     Layer 5 to 4 Message = G>6.&{skcZRJB91)Gvnf
A:
```

```
A:
      9716.5561,
                  Layer 5 to 4
                                Message = HQZdmv!+4=GPYclu~H3<</pre>
A:
      9727.8299,
                  Layer 5 to 4
                                 Message = Id~; Vq.Id~; Vq.Id~; Iq
      9746.7235,
                  Layer 5 to 4
                                 Message = JvEq?l:q5b0]+W&R~MyJ
A:
                 Layer 5 to 4
A:
      9750.8703,
                                Message = K+iI)gG'eE%cC#aA~ >|
      9767.2919,
                 Layer 5 to 4
                                Message = LLx~pbSE6(wiZL=x~pbS
A:
      9785.4367,
                 Layer 5 to 4
                                Message = dPMVY] `cfilo2ux{~$'*
A:
A:
      9804.1378,
                 Layer 5 to 4
                                 Message = NcwNCWl#7Lau,AUj~5J
                 Layer 5 to 4
                                 Message = Of=dORxAqxU{Dj3X~Gm5
      9814.2960,
A:
                                 Message = P*b;sP' 8pJ$[5mG~X2j
A:
      9823.1453,
                 Layer 5 to 4
      9831.9806,
                  Layer 5 to 4
                                 Message = Q<(q]HQ|hS>*s J5~jUA
A:
                  Layer 5 to 4
                                 Message = ROLIFC?R9630-*'^{\circ} {xu
A:
      9848.2918,
      9849.5636,
                 Layer 5 to 4
A:
                                 Message = Sbp~x=LZSw (6ESbp~x=L
      9864.6950,
                 Layer 5 to 4
Α:
                                 Message = dt6Vv8Xx:Tz<2|> ~Aa#
      9879.2930,
                 Layer 5 to 4
                                 Message = U) Z. `3e8j=UCtHyM~R&W
A:
A:
      9887.4713,
                 Layer 5 to 4
                                 Message = V;~dI.qV;~dV.qV;~dI.
A:
      9899.3984,
                 Layer 5 to 4
                                 Message = WNE; 2) } tkbXOW<3*~ulc</pre>
                 Layer 5 to 4
      9918.8418,
                                 Message = Xfiqy$, 4 < EMU^X3v^2) 19
A:
                 Layer 5 to 4
                                Message = YsxIc|8Rl(B[u1Ye~:Tn
      9923.1556,
A:
      9926.7054,
                 Layer 5 to 4
                                 Message = Z(S~LwEp=i6bxZ(Z~LwE
A:
A:
      9927.8274,
                 Layer 5 to 4
                                Message = d:wV5rQ0mL+h2&cB[^<y</pre>
      9944.1663,
                 Layer 5 to 4
                                Message = ]M=.|m^N>x}n O?0~]`P
Α:
                                Message = ^`bdfhjlnprtvxz|~#^'
      9953.1013,
                 Layer 5 to 4
A:
      9962.4557,
                 Layer 5 to 4
A:
                                 Message =
                                            r(;Ocv,?Sgz0DWk~4H
                                 Message = \frac{1}{Lq8}\%Jo6[\#Hm4Y\sim Fk2]
      9981.9603,
                 Layer 5 to 4
A:
      9997.0416,
                 Layer 5 to 4
                                Message = aapI!X1hAwP) `8oH~W0g
     10008.6869,
                 Layer 5 to 4
                                Message = bfb~iS=(pZExwb36~iS=
A:
                  Layer 5 to 4
A:
     10010.5174,
                                Message = d ZcRNJFB=952-)%~zvr
     10016.4643,
                  Layer 5 to 4
                                 Message = dq~.dIVdq~.;IVdq~.;I
A:
A:
     10025.3976,
                 Layer 5 to 4
                                 Message = e&Ed%ec$Cb#Ba!A`~? }
A:
                 Layer 5 to 4
                                 Message = f8i;l>fBrEuHxK{N~Q$T
     10028.7949,
A:
     10047.6699,
                 Layer 5 to 4
                                 Message = qKxqU9\{qD(jN2tX<\sim cG+
A:
     10058.4539,
                 Layer 5 to 4
                                 Message = h^SI>4*hi TJ?5+~tj`
                                 Message = ipw \sim (x6 = EiSZbipw \sim (x6)
A:
     10066.0225,
                 Layer 5 to 4
     10070.6539,
                 Layer 5 to 4
                                 Message = d%=Vo*C[txja24Mf~9Rk
Α:
     10071.6089,
                 Layer 5 to 4
                                Message = kfb.X%OyFp<k3^3T~KuB
A:
A:
     10082.5522,
                 Layer 5 to 4
                                 Message = IJ(dB)[9uS1ml)eC~]:v
                 Layer 5 to 4
A:
     10085.7147,
                                Message = m]L;+xhWG6&scmB1~n^M
     10098.2254,
                 Layer 5 to 4
A:
                                Message = nopqrstuvwxyz{n}~!#$
     10105.7466,
                 Layer 5 to 4
                                Message = 0\%I[n\#5HZm!4GYo~3FX]
A:
A:
     10113.6784,
                 Layer 5 to 4
                                 Message = p6Z~EixSw=b(Lp6ZpEix
     10123.4598,
                 Layer 5 to 4
                                Message = dI~V.d;qI~V.2;qI~q.d
A:
     10140.3164,
                 Layer 5 to 4
                                 Message = r[E.u H1xbK4{eN7~hr}:
A:
                 Layer 5 to 4
                                Message = snid YTOJE?:50+&~yts
A:
     10149.3836,
                  Layer 5 to 4
A:
     10160.6702,
                                 Message = tfx; HTamy(4AMY3r\sim-9F
     10174.9342,
                  Layer 5 to 4
                                 Message = uuSq10m-Ki)Ge%Ca~>]z
A:
A:
     10189.5963,
                 Layer 5 to 4
                                 Message = vHvIxJyKzL\{M|N\}O\sim P!Q
A:
     10196.4131,
                 Layer 5 to 4
                                 Message = wZ=wbE(iLxpS6wZ=\sim bE(
A:
     10205.7322,
                 Layer 5 to 4
                                 Message = dmbVx?4) {peY2C7, ~sh]
     10211.6221,
                 Layer 5 to 4
                                 Message = y!(.4yAGMSY`flrx~'-3
A:
A:
     10223.2868,
                 Layer 5 to 4
                                 Message = z4Ld{5ze|6Nf}70g~8Ph
     10232.2300,
                 Layer 5 to 4
                                 Message = {Gp;e0Y{NwCl7a,U~Js>
A:
                  Layer 5 to 4
     10240.5084,
                                 Message = |Y6qN+fC|Z7rO, qD\sim[8s]
A:
     10255.7213,
                  Layer 5 to 4
                                 Message = fZI7&raO, xqU32~m[J
A:
     10259.5317,
                 Layer 5 to 4
                                10259.5926,
                 Layer 5 to 4
                                Message = !3EVhy->Pbs'2J[m~2DU
A:
     10264.7904,
                 Layer 5 to 4
                                Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
A:
A:
     10282.7035,
                 Layer 5 to 4
                                 Message = X$d:oFzQ(]3h>sJ~U,a
                 Layer 5 to 4
     10289.3285,
                                 Message = %kS%$jR:#iQ9!hP8~gO7
A:
     10295.9836, Layer 5 to 4
                                Message = &}wq&e XRLF?93-'~xrl
A:
     10306.8498, Layer 5 to 4 Message = '2=IT'kv$x:FQ]hs~,7C
A:
```

```
10314.9942,
                  Layer 5 to 4
                                Message = (Eb~=Z(6SpxLi(Eb~=Zw
A:
                                Message = df(V'U&)%S$R2Q3P~O}N
A:
     10319.1153,
                  Layer 5 to 4
     10322.0445,
                 Layer 5 to 4
                                Message = *jL.nP2r*6vX:z]>~aC%
A:
                 Layer 5 to 4
A:
     10333.1031,
                                Message = +|pdWK>2&+k RF9-~rfY
     10335.2948,
                 Layer 5 to 4
                                Message = ,16;AFKPUZ,ejoty~&+0
A:
     10350.8909,
                 Layer 5 to 4
                                Message = -DZq*AWn'=T-$:Qh~7Ne
A:
A:
     10355.0573,
                 Layer 5 to 4
                                Message = .V~Iq;d.V~Iq.d.V~Iq;
                 Layer 5 to 4
                                Message = xiE~Z6pL(b=wSxiE~Z6p
A:
     10359.2089,
A:
     10375.3859,
                 Layer 5 to 4
                                Message = d{iVD1|jWE2}2X03\sim1YG
                  Layer 5 to 4
                                Message = 10x.-,+*) ('&%$\$1~}|{
     10382.5145,
A:
                  Layer 5 to 4
                                Message = 2fSdt'7HXiy, <M3n21BR</pre>
A:
     10392.8120,
     10403.0046,
                 Layer 5 to 4
                                Message = 3Uw;^!Df*Ln2Tv:]~3e)
A:
                                Message = 4h = qGzP&Yxc8lBuK~T4^{\circ}
A:
     10409.6634,
                 Layer 5 to 4
     10423.9830, Layer 5 to 4
                                Message = 5zbI0u]D+pW>&kR9~fM5
A:
A:
     10433.1601,
                 Layer 5 to 4
                                 Message = 6x(~wpibZSLE=6x(~wpi
A:
     10433.2156,
                 Layer 5 to 4
                                Message = d7LVaku!,6AK2`jt~+5?
     10446.3004, Layer 5 to 4
                                Message = 8T8.Jf?[w5Qm+Gc~<Xt
A:
     10462.3238, Layer 5 to 4
                                Message = 9g693a0^-Z*W'T$Q~N\{K
A:
     10466.7729, Layer 5 to 4
                                Message = :yZ;:[<{]=|^>} ?~`A!
A:
                 Layer 5 to 4
A:
     10483.1812,
                                Message = ;f~qd;I;.~qdVI3.~qdV
     10498.0807,
                 Layer 5 to 4
                                Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
Α:
     10512.9441,
                 Layer 5 to 4
                                Message = =Si\sim6Lb=xEZp(=Si\sim6Lb
A:
                 Layer 5 to 4
A:
     10522.6320,
                                Message = dfxVGn7>(Ov2g0W~Ho8
     10533.8843,
                 Layer 5 to 4
                                Message = ?xS.qBzU0?D|W2kF\sim Y4m
A:
A:
     10551.9556,
                 Layer 5 to 4
                                Message = A-wdP<) s`LA%o[H4~kWD
                                Message = B?=;97531x-B)'%\#\sim|zx
     10556.8406,
                 Layer 5 to 4
A:
                 Layer 5 to 4
A:
     10558.8510,
                                Message = CRbq#2BQap!1CP`o~0?0
     10566.5036,
                 Layer 5 to 4
                                Message = De(Ij-No2St7XD<^~Bc&</pre>
A:
A:
     10584.1514,
                 Layer 5 to 4
                                Message = EfL~S(Zxb6i=pEEL~S(Z
A:
                 Layer 5 to 4
     10591.3587,
                                Message = d,pV<#gM3w^D2nTF~eK1</pre>
A:
     10603.4487,
                 Layer 5 to 4
                                Message = G>6.&{skcZRJB91)Gvnf
A:
     10620.6964,
                 Layer 5 to 4
                                Message = HQZdmv!+4=GPYclu~H3<
     10623.0907,
A:
                 Layer 5 to 4
                                Message = Id~; Vq.Id~; Vq.Id~; Iq
     10623.9038,
                 Layer 5 to 4
                                Message = JvEq?l:g5b0]+W&R~MyJ
A:
                 Layer 5 to 4
                                Message = K+iI)gG'eE%cC#aA~ >|
     10629.3559,
Α:
     10643.1859,
                 Layer 5 to 4
                                Message = LLx~pbSE6(wiZL=x~pbS
A:
     10643.6262,
                 Layer 5 to 4
                                Message = dPMVY] `cfilo2ux{~$'*
     10643.7128,
                 Layer 5 to 4
                                Message = NfwNCWl#7Lau,A3j~5J
A:
     10660.0111,
                 Layer 5 to 4 Message = Ou=dORxAgxU{Dj2X~Gm5
A:
A:
     10664.4315,
                 Layer 5 to 4
                                Message = P*b;sP' 8pJ$[5mG~X2j
     10679.4675,
                 Layer 5 to 4
                                Message = Q<(q]HQ|hS>*s J5~jUA
A:
                                Message = ROLIFC?R9630-*'$~{xu
     10688.0312,
                 Layer 5 to 4
A:
                 Layer 5 to 4
A:
     10699.2572,
                                Message = Sbp~x=LZSw (6ESbp~x=L
                  Layer 5 to 4
A:
     10713.7789,
                                 Message = dt6Vv8Xx:Tz<2|> ~Aa#
     10720.2585,
                 Layer 5 to 4
                                 Message = U) Z. `3e8j=UCtHyM~R&W
A:
A:
     10722.6961,
                 Layer 5 to 4
                                Message = V;~dI.qV;~dV.qV;~dI.
     10732.0211,
                 Layer 5 to 4
                                Message = WfE;2) }tkbXOW<3*~ulc</pre>
A:
A:
     10737.7754,
                 Layer 5 to 4
                                Message = Xaiqy$,4<EMU^Xnv~)19</pre>
     10748.9860, Layer 5 to 4
                                 Message = YsxIc|8Rl(B[u1Ye~:Tn
A:
A:
     10766.7283, Layer 5 to 4
                                Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE
     10781.5171,
                 Layer 5 to 4
                                Message = d:wV5rQ0mL+h2&cB[^<y</pre>
A:
                 Layer 5 to 4
                                Message = ]M=.|m^N>x}n O?0~]`P
     10796.0240,
A:
                                Message = ^`bdfhjlnprtvxz|~#^'
     10814.6727,
                  Layer 5 to 4
A:
     10823.0957,
                 Layer 5 to 4
                                Message =
                                            r(;Ocv,?Sqz0DWk~4H
                                Message = 'Lq8^%Jo6[#Hm4Y~Fk2
     10828.5034,
                 Layer 5 to 4
A:
     10834.9691,
                 Layer 5 to 4
                                Message = aapI!X1hAwP) `83H~W0g
A:
A:
     10844.2525,
                 Layer 5 to 4
                                 Message = bLb~iS=(pZExwbL6~iS=
                 Layer 5 to 4
                                Message = d ZcRNJFB=952-)%~zvr
     10849.7462,
A:
     10863.1317, Layer 5 to 4
                                Message = dq~.dIVdq~.;IVdq~.;I
A:
     10872.4732, Layer 5 to 4 Message = e\&Ed%ec$Cb#Ba!A`~?}
A:
```

```
A:
     10876.0332,
                 Layer 5 to 4 Message = f8i; 1>fBrEuHxK{N~Q$T
                                Message = gKxqU9{gD(jN2tX<\sim cG+
A:
     10888.3563,
                 Layer 5 to 4
                 Layer 5 to 4
     10903.2879,
                                Message = h^SI>4*}hi_TJ?5+~tj
A:
                 Layer 5 to 4
A:
     10918.1974,
                                Message = ipw \sim (x6=EiSZbipw \sim (x6)
                                Message = df=Vo*C[txja243f~9Rk
     10922.4956,
                 Layer 5 to 4
A:
     10922.6973,
                 Layer 5 to 4
                                Message = k7b.X%OyFp<k3^*T~KuB
A:
A:
     10932.4628,
                 Layer 5 to 4
                                Message = lJ(dB)[9uS1ml)eC~]:v
                 Layer 5 to 4
                                Message = m]L;+xhWG6&scmB1~n^M
A:
     10941.3242,
A:
     10954.5271,
                 Layer 5 to 4
                                Message = nopqrstuvwxyz{n}~!#$
A:
                 Layer 5 to 4
     10955.0079,
                                Message = 0$6I[n#5HZm!4GYo~3FX
                 Layer 5 to 4
A:
     10956.2645,
                                Message = p6Z~EixSw=b(Lp6ZpEix
                 Layer 5 to 4
     10975.5228,
                                Message = dI~V.d;qI~V.2;qI~q.d
A:
                 Layer 5 to 4
     10990.5058,
                                Message = r[E.u H1xbK4{eN7~hr}:
A:
     11009.8497, Layer 5 to 4
                                Message = sfid YTOJE?:503&~yts
A:
A:
     11022.7858, Layer 5 to 4
                                Message = t # x; HTamy (4AMYfr \sim -9F)
A:
     11036.7704, Layer 5 to 4
                                Message = uuSq10m-Ki)Ge%Ca~>]z
     11036.8102, Layer 5 to 4
                                Message = vHvIxJyKzL\{M|N\}O\sim P!Q
A:
     11044.9610, Layer 5 to 4
                                Message = wZ=wbE(iLxpS6wZ=~bE(
A:
     11054.8105, Layer 5 to 4
A:
                                Message = dmbVx?4) {peY2C7, ~sh]
                 Layer 5 to 4
A:
     11055.9195,
                                Message = y!(.4yAGMSY)^{1}
     11075.7331,
                 Layer 5 to 4
                                Message = z4Ld{5ze|6Nf}70g~8Ph
Α:
     11081.8060, Layer 5 to 4
                                Message = {Gp;e0Y{NwCl7a,U~Js>
A:
     11088.5318,
                Layer 5 to 4
A:
                                Message = |f6qN+fC|Z7r0,3D\sim[8s]
     11089.2756,
                 Layer 5 to 4
                                Message = }lZI7&raO},xgUD2~m[J
A:
A:
     11091.3793,
                 Layer 5 to 4
                                Layer 5 to 4
     11107.5213,
                                Message = !3EVhy->Pbs'2J[m~2DU
A:
                 Layer 5 to 4
A:
     11126.4134,
                                Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
     11146.0623,
                 Layer 5 to 4
                                Message = $X$d:oFzQ(]3h>sJ~U,a
A:
                 Layer 5 to 4
A:
     11165.5303,
                                Message = %kS%jR:\#iQ9!hP8~gO7
     11183.0076, Layer 5 to 4
                                Message = &}wq&e_XRLF?93-'~xrl
A:
                                Message = '2=IT'kv$x:FQ]hs\sim,7C
A:
     11184.2388, Layer 5 to 4
A:
     11197.0458, Layer 5 to 4
                                Message = (fb\sim=Z(6SpxLi(3b\sim=Zw))
     11204.2291, Layer 5 to 4
                                Message = dW(V'U\&)%S$R2Q!P~O}N
A:
     11214.9477,
                 Layer 5 to 4
                                Message = *jL.nP2r*6vX:z]>~aC%
A:
     11222.4994,
                 Layer 5 to 4
                                Message = +|pdWK>2&+k RF9-~rfY
Α:
     11223.7476,
                 Layer 5 to 4
A:
                                Message = ,16;AFKPUZ,ejoty~&+0
                 Layer 5 to 4
A:
     11241.8701,
                                Message = -DZq*AWn'=T-$:Qh~7Ne
     11245.9351,
                 Layer 5 to 4
                               Message = .V~Iq;d.V~Iq.d.V~Iq;
A:
     11247.3738, Layer 5 to 4 Message = xiE~Z6pL(b=wSxiE~Z6p
A:
                 Layer 5 to 4 Message = d{iVD1|jWE2}2X03~1YG
A:
     11248.1939,
     11250.7083,
                 Layer 5 to 4
                                Message = 1fx.-,+*) ('&%$31~}|{
A:
     11270.4814, Layer 5 to 4
                                Message = 2CSdt'7HXiy, <M^n21BR</pre>
A:
     11277.0800, Layer 5 to 4
                                Message = 3Uw;^!Df*Ln2Tv:]~3e)
A:
                 Layer 5 to 4
     11279.8229,
                                Message = 4h=qGzP&Yxc8lBuK~T4^
A:
     11299.4534,
                 Layer 5 to 4
                                Message = 5zbI0u]D+pW>&kR9~fM5
A:
A:
     11308.3866,
                 Layer 5 to 4
                                Message = 6x(~wpibZSLE=6x(~wpi
                 Layer 5 to 4
     11309.5060,
                                Message = d7LVaku!,6AK2`jt~+5?
A:
A:
     11322.7631, Layer 5 to 4
                                Message = 8T8.Jf$?[w5Qm+Gc~<Xt
     11335.6357,
                 Layer 5 to 4
                                Message = 9g693a0^-Z*W'T$Q~N\{K
A:
A:
     11344.3730, Layer 5 to 4
                                Message = :fZ;:[<{]=|^>}3?~^A!
     11352.4965, Layer 5 to 4
                                Message = ;.~qd;I;.~qdVI;.~qdV
A:
     11363.7660, Layer 5 to 4
A:
                                Message = <AEIMQ<Y^bfjnrvz~%)-
     11370.7783,
                 Layer 5 to 4
                                Message = =Si\sim6Lb=xEZp(=Si\sim6Lb
A:
     11386.1099,
                 Layer 5 to 4
                                Message = dfxV}Gn7>(Ov2g0W~Ho8
     11405.4498,
                 Layer 5 to 4
                                Message = ?xS.gBzU0?D|W2kF~Y4m
A:
     11411.4579,
                 Layer 5 to 4
                                Message = A-wdP<)s`LA%o[H4~kWD</pre>
A:
                 Layer 5 to 4
     11429.4671,
A:
                                Message = B?=;97531x-B)'%\#~|zx
                                Message = CRbq#2BQap!1CP`o~0?0
     11448.9784, Layer 5 to 4
A:
     11456.5500, Layer 5 to 4 Message = Df(Ij-No2St7XD3^~Bc&
A:
     11472.3933, Layer 5 to 4 Message = EwL~S(Zxb6i=pEEL~S(Z
A:
```

```
11490.8651,
                  Layer 5 to 4
                                Message = d,pV<#gM3w^D2nTF~eK1</pre>
A:
A:
     11505.2341,
                  Layer 5 to 4
                                Message = G>6.&{skcZRJB91)Gvnf
     11505.5349,
                  Layer 5 to 4
                                Message = HQZdmv!+4=GPYclu~H3<
A:
                 Layer 5 to 4
A:
     11520.4636,
                                Message = Id~; Vq.Id~; Vq.Id~; Iq
     11524.8416,
                 Layer 5 to 4
                                Message = JvEq?1:g5b0]+W&R~MyJ
A:
     11525.8979,
                 Layer 5 to 4
                                Message = K+iI)gG'eE%cC#aA~ >|
A:
A:
     11538.7861,
                 Layer 5 to 4
                                 Message = LLx~pbSE6(wiZL=x~pbS
                 Layer 5 to 4
                                Message = dfMVY] `cfilo2u3{~$'*
A:
     11550.8178,
A:
     11567.9485,
                 Layer 5 to 4
                                Message = NcwNCWl#7Lau,AUj~5J
                  Layer 5 to 4
     11583.2431,
                                 Message = Ou=dORxAqxU{Dj2X~Gm5
A:
                  Layer 5 to 4
                                 Message = P*b;sP' 8pJ$[5mG~X2j
A:
     11599.6475,
     11609.0695,
                 Layer 5 to 4
                                Message = Q<(q]HQ|hS>*s J5~jUA
A:
                 Layer 5 to 4
     11624.5975,
                                 Message = ROLIFC?R9630-*'$\sim{xu
A:
     11643.7025,
                 Layer 5 to 4
                                Message = Sbp~x=LZSw (6ESbp~x=L
A:
A:
     11661.3619,
                 Layer 5 to 4
                                 Message = dt6Vv8Xx:Tz<2|> ~Aa#
A:
     11663.3866, Layer 5 to 4
                                Message = U) Z. `3e8j=UCtHyM~R&W
     11671.9757,
                 Layer 5 to 4
                                Message = Vf~dI.qV;~dV.q3;~dI.
A:
                 Layer 5 to 4
                                Message = WNE;2) }tkbXOW<3*~ulc</pre>
     11689.3699,
A:
                  Layer 5 to 4
     11692.6541,
                                Message = Xaiqy$, 4<EMU^Xnv~)19</pre>
A:
A:
     11709.9584,
                 Layer 5 to 4
                                Message = YsxIc|8Rl(B[u1Ye~:Tn
     11723.8186,
                 Layer 5 to 4
                                Message = Z(S~LwEp=i6bxZ(Z~LwE
Α:
A:
     11732.9350,
                 Layer 5 to 4
                                Message = d:wV5rQ0mL+h2&cB[^<y</pre>
                 Layer 5 to 4
                                Message = ]M=.|m^N>x\}n O?0~]`P
A:
     11752.6081,
     11757.7193,
                 Layer 5 to 4
                                Message = ^`bdfhjlnprtvxz|~#^'
A:
A:
     11760.8481,
                 Layer 5 to 4
                                Message = r(;Ocv,?Sgz0DWk~4H
                                Message = \tilde{f}Lq8^%Jo6[#Hm3Y~Fk2
     11767.7224,
                 Layer 5 to 4
A:
                  Layer 5 to 4
A:
     11783.6350,
                                Message = aapI!X1hAwP) `8oH~W0g
     11787.2190,
                  Layer 5 to 4
                                Message = bLb~iS=(pZExwbL6~iS=
A:
A:
     11802.6319,
                 Layer 5 to 4
                                Message = d ZcRNJFB=952-)%~zvr
     11807.6963,
                 Layer 5 to 4
A:
                                Message = dq~.dIVdq~.;IVdq~.;I
A:
     11824.4564,
                 Layer 5 to 4
                                Message = e&Ed%ec$Cb#Ba!A`~? }
A:
     11832.6683,
                 Layer 5 to 4
                                 Message = f8i;l>fBrEuHxK{N~Q$T
A:
     11848.6317,
                 Layer 5 to 4
                                Message = qKxqU9\{qD(jN2tX<\sim cG+
     11865.4673,
                 Layer 5 to 4
                                Message = h^SI>4*hi TJ?5+~tj`
A:
     11883.0649,
                 Layer 5 to 4
                                Message = ifw \sim (x6 = EiSZbi3w \sim (x6)
A:
     11885.3772,
                 Layer 5 to 4
                                Message = d\%=Vo*C[txja24Mf~9Rk]
                 Layer 5 to 4
A:
     11888.7021,
                                Message = k7b.X%OyFp<k3^*T~KuB
     11888.9528,
                 Layer 5 to 4
                                Message = lJ(dB)[9uS1ml)eC~]:v
A:
A:
     11902.2203,
                 Layer 5 to 4
                                Message = m]L;+xhWG6&scmB1~n^M
A:
     11909.1952,
                 Layer 5 to 4
                                Message = nopqrstuvwxyz{n}~!#$
     11917.5832,
                 Layer 5 to 4
                                Message = 0$6I[n#5HZm!4GYo~3FX
A:
     11934.5742,
                 Layer 5 to 4
                                Message = p6Z~EixSw=b(Lp6ZpEix
A:
     11942.3915,
                 Layer 5 to 4
                                Message = dI~V.d;qI~V.2;qI~q.d
A:
                  Layer 5 to 4
     11946.9157,
                                 Message = rfE.u H1xbK4{e37~hr:
A:
                                 Message = snid \overline{Y}TOJE?:50+&~yts
     11965.1019,
                  Layer 5 to 4
A:
A:
     11981.0972,
                 Layer 5 to 4
                                Message = t # x; HTamy (4AMYfr~-9F
     11993.6281,
                 Layer 5 to 4
A:
                                Message = uuSq10m-Ki)Ge%Ca~>]z
A:
     12001.3489,
                 Layer 5 to 4
                                 Message = vHvIxJyKzL\{M|N\}O\sim P!Q
     12003.8400,
                 Layer 5 to 4
                                 Message = wZ=wbE(iLxpS6wZ=\sim bE(
A:
A:
     12012.8967,
                 Layer 5 to 4
                                Message = dmbVx?4) {peY2C7, ~sh]
     12027.9748,
                 Layer 5 to 4
                                Message = y!(.4yAGMSY`flrx~'-3
A:
                  Layer 5 to 4
     12040.3772,
                                Message = z4Ld{5ze|6Nf}70g~8Ph
A:
     12047.8958,
                  Layer 5 to 4
                                Message = {fp;e0Y{NwCl7a3U~Js>
A:
     12052.0393,
                 Layer 5 to 4
                                Message = |Y6qN+fC|Z7rO,qD\sim[8s]
     12053.1576,
                 Layer 5 to 4
                                Message = }lZI7&raO},xgUD2~m[J
A:
                                12068.4608,
                 Layer 5 to 4
A:
                                 Message = !3EVhy->Pbs'2J[m~2DU
A:
     12088.3858,
                 Layer 5 to 4
                 Layer 5 to 4
                                Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
     12108.2898,
A:
     12114.6646, Layer 5 to 4
                                Message = $X$d:oFzQ(]3h>sJ~U,a
A:
     12116.5809, Layer 5 to 4 Message = %kS%$jR:#iQ9!hP8~gO7
A:
```

```
A:
     12122.4613,
                  Layer 5 to 4 Message = & \ wq&e XRLF?93-'~xrl
                                 Message = 'f=IT'kv$x:FQ]3s\sim,7C
A:
     12135.5616,
                  Layer 5 to 4
     12152.0865,
                 Layer 5 to 4
                                 Message = (Eb \sim = Z (6SpxLi (Eb \sim = Zw))
A:
                 Layer 5 to 4
                                 Message = dW(V'U\&) %S$R2Q!P~O}N
A:
     12164.9677,
     12180.0858,
                 Layer 5 to 4
                                 Message = *jL.nP2r*6vX:z]>~aC%
A:
     12190.4914,
                 Layer 5 to 4
                                 Message = +|pdWK>2&+k RF9-~rfY
A:
A:
     12196.1288,
                 Layer 5 to 4
                                 Message = ,16;AFKPUZ,ejoty~&+0
                 Layer 5 to 4
     12204.2295,
                                 Message = -DZg*AWn'=T-$:Oh~7Ne
A:
A:
     12212.8968,
                 Layer 5 to 4
                                 Message = .V~Iq;d.V~Iq.d.V~Iq;
                 Layer 5 to 4
                                 Message = xiE~Z6pL(b=wSxiE~Z6p
     12224.1366,
A:
                  Layer 5 to 4
     12231.0058,
A:
                                 Message = dfiVD1|jWE2}2X03~1YG
                 Layer 5 to 4
                                 Message = 10x.-,+*)('&%$#1~}|{
     12242.4015,
A:
     12249.4113,
                 Layer 5 to 4
                                 Message = 2CSdt'7HXiy,<M^n21BR</pre>
A:
     12262.9498, Layer 5 to 4
                                 Message = 3Uw;^!Df*Ln2Tv:]~3e)
A:
A:
     12265.2395, Layer 5 to 4
                                 Message = 4h=qGzP&Yxc8lBuK~T4^
A:
     12268.6029, Layer 5 to 4
                                 Message = 5zbI0u]D+pW>&kR9~fM5
     12276.5615, Layer 5 to 4
                                 Message = 6x(~wpibZSLE=6x(~wpi
A:
     12277.7144, Layer 5 to 4
                                 Message = d7LVaku!, 6AK2 \dot t^{+5}?
A:
                 Layer 5 to 4
                                 Message = 8T8.Jf?[w5Qm+Gc~<Xt
     12294.4727,
A:
                 Layer 5 to 4
A:
     12310.1836,
                                 Message = 9f693a0^-Z*W'T3Q~N\{K
     12323.9127,
                 Layer 5 to 4
                                Message = :yZ;:[<{]=|^>} ?~`A!
Α:
                 Layer 5 to 4
     12328.3027,
                                Message = ;.~qd;I;.~qdVI;.~qdV
A:
                 Layer 5 to 4
                                Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
A:
     12331.1514,
     12349.6462,
                 Layer 5 to 4
                                Message = =Si\sim6Lb=xEZp(=Si\sim6Lb
A:
A:
     12352.3996, Layer 5 to 4
                                Message = dfxV}Gn7>(Ov2g0W~Ho8
     12368.5908, Layer 5 to 4
                                Message = ?xS.gBzU0?D|W2kF~Y4m
A:
     12373.1940, Layer 5 to 4
A:
                                 Message = A-wdP<)s`LA%o[H4~kWD
     12378.8126,
                 Layer 5 to 4
                                 Message = B?=;97531x-B)'%\#~|zx
A:
A:
     12390.6239,
                 Layer 5 to 4
                                 Message = Cfbq#2BQap!1CP3o~0?0
     12403.1976, Layer 5 to 4
                                 Message = De(Ij-No2St7XD<^~Bc&</pre>
A:
A:
     12409.8699, Layer 5 to 4
                                 Message = EwL\sim S(Zxb6i=pEEL\sim S(Z
A:
     12411.3627, Layer 5 to 4
                                 Message = d_pV<\#gM3w^D2nTF\sim eK1
     12420.5626, Layer 5 to 4
A:
                                 Message = G>6.&{skcZRJB91)Gvnf
     12424.2876, Layer 5 to 4
                                 Message = HQZdmv!+4=GPYclu~H3<</pre>
A:
     12429.6377, Layer 5 to 4
                                 Message = Id~; Vq.Id~; Vq.Id~; Iq
Α:
                 Layer 5 to 4
     12448.4652,
                                 Message = JvEq?l:g5b0]+W&R~MyJ
                 Layer 5 to 4
A:
     12462.3906,
                                 Message = K+iI)gG'eE%cC#aA~ >|
     12465.9377,
                 Layer 5 to 4
                                Message = LLx~pbSE6(wiZL3x~pbS
A:
     12482.5824,
                 Layer 5 to 4 Message = dPMVY] `cfilo2ux{~$'*
A:
A:
     12489.6713,
                 Layer 5 to 4 Message = NcwNCWl#7Lau, AUj~5J
     12493.5602,
                 Layer 5 to 4
                                Message = Ou=dORxAgxU{Dj2X~Gm5
A:
     12494.2149, Layer 5 to 4
                                 Message = P*b;sP' 8pJ$[5mG~X2j
A:
     12497.5093, Layer 5 to 4
                                 Message = Q<(q]HQ|hS>*s J5~jUA
A:
                 Layer 5 to 4
     12507.5348,
                                 Message = ROLIFC?R9630-*'$~{xu
A:
     12524.6261,
                 Layer 5 to 4
                                 Message = Sbp \sim x = LZSw (6ESbp \sim x = L
A:
A:
     12529.0986,
                 Layer 5 to 4
                                 Message = dt6Vv8Xx:Tz<2|> ~Aa#
                 Layer 5 to 4
     12538.3042,
                                 Message = UfZ.`3e8j=UCtH3M~R&W
A:
                                 Message = V;~dI.qV;~dV.qV;~dI.
A:
     12557.9913,
                 Layer 5 to 4
     12558.1461, Layer 5 to 4
                                 Message = WNE; 2) }tkbXOW<3*~ulc</pre>
A:
A:
     12560.9591, Layer 5 to 4
                                 Message = Xaiqy$,4<EMU^Xnv~)19</pre>
     12578.4390, Layer 5 to 4
                                 Message = YsxIc|8Rl(B[u1Ye~:Tn
A:
     12583.5356, Layer 5 to 4
                                 Message = Z(S~LwEp=i6bxZ(Z~LwE
A:
                 Layer 5 to 4
     12601.9684,
                                 Message = d:wV5rQ0mL+h2&cB[^<y</pre>
A:
     12620.9737,
                 Layer 5 to 4
                                 Message = ]M=.|m^N>x\}n O?0~]`P
     12623.1247,
                 Layer 5 to 4
                                 Message = ^`bdfhjlnprtvxz|~#^'
A:
                 Layer 5 to 4
                                 Message =
                                            f(;Ocv,?Sgz0D3k~4H
     12635.1440,
A:
                                 Message = \ \'\Lq8^\%Jo6[\#Hm4Y\circ\Fk2]
                 Layer 5 to 4
A:
     12643.2188,
                 Layer 5 to 4
                                 Message = aapI!X1hAwP) `8oH~W0g
A:
     12657.9472,
     12676.5546, Layer 5 to 4 Message = bLb \sim iS = (pZExwbL6 \sim iS =
A:
     12692.0747, Layer 5 to 4 Message = d ZcRNJFB=952-)%~zvr
A:
```

```
A:
     12698.3318,
                  Layer 5 to 4 Message = dq~.dIVdq~.;IVdq~.;I
A:
     12700.9602,
                  Layer 5 to 4
                                Message = e&Ed%ec$Cb#Ba!A`~? }
     12716.0038,
                 Layer 5 to 4
                                Message = f8i;l>fBrEuHxK{N~Q$T
A:
                 Layer 5 to 4
A:
     12733.7936,
                                Message = gKxqU9\{gD(jN2tX<\sim cG+
     12746.9930,
                 Layer 5 to 4
                                Message = hfSI>4*}hi TJ?3+~tj`
A:
     12749.4647,
                 Layer 5 to 4
                                Message = ipw \sim (x6 = EiSZbipw \sim (x6)
A:
A:
     12752.6356,
                 Layer 5 to 4
                                Message = d%=Vo*C[txja24Mf~9Rk
                 Layer 5 to 4
                                Message = k7b.X\%OyFp<k3^*T\sim KuB
A:
     12765.2458,
A:
     12765.4510,
                 Layer 5 to 4
                                Message = lJ(dB)[9uS1ml)eC~]:v
     12774.0312,
                  Layer 5 to 4
                                Message = m]L;+xhWG6&scmB1~n^M
A:
                  Layer 5 to 4
A:
     12781.4782,
                                Message = nopqrstuvwxyz{n}~!#$
                 Layer 5 to 4
     12783.3411,
A:
                                Message = 0$6I[n#5HZm!4GYo~3FX
     12792.0443,
                 Layer 5 to 4
A:
                                Message = p6Z~EixSw=b(Lp6ZpEix
     12807.1240, Layer 5 to 4
                                Message = df \sim V.d; qI \sim V.2; 3I \sim q.d
A:
A:
     12811.5300, Layer 5 to 4
                                Message = r[E.u H1xbK4{eN7~hr}:
A:
     12823.9812, Layer 5 to 4
                                Message = snid YTOJE?:50+&~yts
     12830.9405,
                 Layer 5 to 4
                                Message = t # x; HTamy (4AMYfr~-9F
A:
     12835.6086, Layer 5 to 4
                                Message = uuSq10m-Ki)Ge%Ca~>]z
A:
     12853.1983, Layer 5 to 4
A:
                                Message = vHvIxJyKzL\{M|N\}O\sim P!Q
                 Layer 5 to 4
A:
     12862.2851,
                                Message = wZ=wbE(iLxpS6wZ=\sim bE(
     12865.1960,
                 Layer 5 to 4
                                Message = dmbVx?4) {peY2C7, ~sh]
Α:
                 Layer 5 to 4
     12868.0649,
                                Message = y!(.4yAGMSY`flrx~'-3
A:
     12885.2507,
                 Layer 5 to 4
A:
                                Message = zfLd{5ze|6Nf}73g~8Ph
     12887.3394,
                 Layer 5 to 4
                                Message = {Gp;e0Y{NwCl7a,U~Js>
A:
A:
     12892.3239,
                 Layer 5 to 4
                                Message = |Y6qN+fC|Z7rO,qD\sim[8s]
                 Layer 5 to 4
     12905.7491,
                                Message = }lZI7&raO},xgUD2~m[J
A:
                 Layer 5 to 4
A:
     12923.8824,
                                12930.2367,
                 Layer 5 to 4
                                Message = !3EVhy->Pbs'2J[m~2DU
A:
A:
     12947.7448,
                 Layer 5 to 4
                                Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
     12965.9357,
                 Layer 5 to 4
                                Message = $X$d:oFzQ(]3h>sJ~U,a
A:
A:
     12980.5549, Layer 5 to 4
                                Message = %kS%jR:#iQ9!hP8~gO7
A:
     12984.3363, Layer 5 to 4
                                Message = &fwq&e XRLF?933'~xrl
     12998.2359, Layer 5 to 4
                                Message = '2=IT'kv$x:FQ]hs\sim,7C
A:
                                Message = (Eb~=Z(6SpxLi(Eb~=Zw
     13009.1253,
                 Layer 5 to 4
A:
                 Layer 5 to 4
                                Message = dW(V'U\&) %S$R2Q!P~O}N
     13028.5044,
Α:
                 Layer 5 to 4
A:
     13037.4543,
                                Message = *jL.nP2r*6vX:z]>~aC%
A:
     13038.3797,
                 Layer 5 to 4
                                Message = +|pdWK>2&+k RF9-~rfY
     13051.1772,
                 Layer 5 to 4
A:
                                Message = ,16;AFKPUZ,ejoty~&+0
     13058.8472,
                 Layer 5 to 4 Message = -DZq*AWn'=T-$:Qh~7Ne
A:
A:
     13069.5060,
                 Layer 5 to 4
                                Message = .V~Iq;d.V~Iq.d.V~Iq;
     13072.0713,
                 Layer 5 to 4
                                Message = xfE\sim Z6pL(b=wSx3E\sim Z6p
A:
     13086.4827,
                 Layer 5 to 4
                                Message = d\{iVD1|jWE2\}2X03\sim1YG
A:
     13098.5005,
                 Layer 5 to 4
                                Message = 10x.-,+*) ('&%$\$1~}|{
A:
                 Layer 5 to 4
     13101.5302,
                                Message = 2CSdt'7HXiy, <M^n21BR</pre>
A:
     13102.1827,
                 Layer 5 to 4
                                Message = 3Uw; ^!Df*Ln2Tv:]~3e)
A:
A:
     13108.1986,
                 Layer 5 to 4
                                Message = 4h=qGzP&Yxc8lBuK~T4^
                                Message = 5zbIOu]D+pW>&kR9~fM5
     13117.4315,
                 Layer 5 to 4
A:
A:
     13135.2521,
                 Layer 5 to 4
                                Message = 6x(~wpibZSLE=6x(~wpi
     13146.5883,
                 Layer 5 to 4
                                Message = d7LVaku!,6AK2`jt~+5?
A:
A:
     13154.1556, Layer 5 to 4
                                Message = 8f8.Jf?[w5Qm+3c~<Xt
     13156.9649, Layer 5 to 4
                                Message = 9g693a0^-Z*W'T$Q~N\{K
A:
                 Layer 5 to 4
     13173.7360,
                                Message = :yZ;: [<{]=|^>} ?~ `A!
A:
     13185.4715,
                 Layer 5 to 4
                                Message = ;.~qd;I;.~qdVI;.~qdV
A:
     13203.6442,
                 Layer 5 to 4
                                Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
                                Message = =Si~6Lb=xEZp(=Si~6Lb
     13211.9222,
                 Layer 5 to 4
A:
                 Layer 5 to 4
                                Message = dfxV}Gn7>(Ov2g0W~Ho8
     13219.9232,
A:
                 Layer 5 to 4
A:
     13234.2926,
                                Message = ?xS.gBzU0?D|W2kF\sim Y4m
                 Layer 5 to 4
     13239.1613,
                                Message = A-wdP<)s LA%o[H4~kWD
A:
     13247.4354, Layer 5 to 4
                                Message = Bf=;97531x-B)'3#~|zx
A:
     13250.9946, Layer 5 to 4 Message = CRbq#2BQap!1CP`o~0?0
A:
```

```
A:
      13251.1086,
                      Layer 5 to 4
                                        Message = De(Ij-No2St7XD<^~Bc&</pre>
A:
      13267.0907,
                      Layer 5 to 4
                                        Message = EwL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL) )))
      13277.6976,
                      Layer 5 to 4
                                        Message = d_pV<\#gM3w^D2nTF\sim eK1
A:
      13287.7900,
                     Layer 5 to 4
A:
                                        Message = G>6.&{skcZRJB91)Gvnf
      13291.1013,
                     Layer 5 to 4
                                        Message = HQZdmv!+4=GPYclu~H3<</pre>
A:
      13304.5362,
                     Layer 5 to 4
A:
                                        Message = Id~; Vq.Id~; Vq.Id~; Iq
A:
      13323.7963,
                     Layer 5 to 4
                                        Message = JvEq?1:g5b0]+W&R~MyJ
                     Layer 5 to 4
                                        Message = KfiI)gG'eE%cC#3A~ >|
A:
      13328.0408,
A:
      13346.1285,
                     Layer 5 to 4
                                        Message = LLx~pbSE6(wiZL=x~pbS
                      Layer 5 to 4
                                        Message = dPMVY] `cfilo2ux{~$'*
      13346.4674,
A:
                      Layer 5 to 4
A:
      13362.4849,
                                        Message = NcwNCWl#7Lau,AUj~5J
      13367.9275,
                     Layer 5 to 4
A:
                                        Message = Ou=dORxAgxU{Dj2X~Gm5
                     Layer 5 to 4
      13381.3314,
                                        Message = P*b;sP' 8pJ$[5mG~X2j
A:
      13381.7751,
                     Layer 5 to 4
                                        Message = Q<(q]HQ|hS>*s J5~jUA
A:
                                        Message = ROLIFC?R9630-*'$\sim{xu}
A:
      13398.1826,
                     Layer 5 to 4
A:
      13399.8657,
                     Layer 5 to 4
                                        Message = Sbp \sim x = LZSw (6ESbp \sim x = L
      13406.8663,
                     Layer 5 to 4
                                        Message = df6Vv8Xx:Tz<2|3 ~Aa#</pre>
A:
                     Layer 5 to 4
                                        Message = U) Z. 3e8j=UCtHyM\sim R&W
      13425.8466,
A:
                     Layer 5 to 4
      13427.2809,
                                        Message = V;~dI.qV;~dV.qV;~dI.
A:
A:
      13434.4994,
                     Layer 5 to 4
                                        Message = WNE; 2) }tkbXOW<3*~ulc</pre>
      13436.1928,
                     Layer 5 to 4
                                        Message = Xaiqy$, 4<EMU^Xnv~)19</pre>
Α:
      13436.8344,
                     Layer 5 to 4
A:
                                        Message = YsxIc|8Rl(B[u1Ye~:Tn
      13439.9974,
                     Layer 5 to 4
A:
                                        Message = Z(S~LwEp=i6bxZ(Z~LwE
      13459.8094,
                     Layer 5 to 4
                                        Message = d:wV5rQ0mL+h2&cB[^<y</pre>
A:
                                        Message = ]M=.|m^N>x}n O?0~]`P
A:
      13461.5639,
                     Layer 5 to 4
                     Layer 5 to 4
      13468.8129,
                                        Message = ^fbdfhjlnprtvx3|~#^'
A:
                     Layer 5 to 4
A:
      13482.4754,
                                        Message =
                                                      r(;Ocv,?Sgz0DWk~4H
                                        Message = 'Lq8^%Jo6[#Hm4Y~Fk2
      13488.5432,
                      Layer 5 to 4
A:
A:
      13489.0144,
                     Layer 5 to 4
                                        Message = aapI!X1hAwP) `8oH~W0g
      13489.1644,
                     Layer 5 to 4
                                        Message = bLb~iS=(pZExwbL6~iS=
A:
A:
      13489.9000,
                     Layer 5 to 4
                                        Message = d ZcRNJFB=952-)%~zvr
A:
      13493.7651, Layer 5 to 4
                                        Message = dq~.dIVdq~.;IVdq~.;I
      13494.2783,
                                        Message = e&Ed%ec$Cb#Ba!A`~? }
A:
                     Layer 5 to 4
      13500.3556,
                     Layer 5 to 4
                                        Message = f8i;l>fBrEuHxK{N~Q$T
Α:
      13520.1673,
                     Layer 5 to 4
                                        Message = gfxqU9\{gD(jN2t3 < \sim cG +
A:
A:
      13522.1238,
                     Layer 5 to 4
                                        Message = h^SI>4*\}hi TJ?5+~tj
A:
      13525.8308,
                     Layer 5 to 4
                                        Message = ipw \sim (x6 = EiSZbipw \sim (x6)
                                        Message = d\%=Vo*C[txja24Mf~9Rk]
      13528.9481,
                     Layer 5 to 4
A:
      13541.4418,
                     Layer 5 to 4
                                        Message = k7b.X%OyFp<k3^*T~KuB
A:
A:
      13543.2947,
                     Layer 5 to 4
                                        Message = lJ(dB)[9uS1ml)eC~]:v
      13544.6213,
                     Layer 5 to 4
                                        Message = m]L;+xhWG6&scmB1~n^M
A:
      13560.9947,
                     Layer 5 to 4
                                        Message = nopqrstuvwxyz{n}~!#$
A:
                     Layer 5 to 4
                                        Message = o$6I[n#5HZm!4GYo~3FX
A:
      13568.6350,
                      Layer 5 to 4
A:
      13579.2889,
                                        Message = pfZ~EixSw=b(Lp3ZpEix
      13598.2447,
                      Layer 5 to 4
                                        Message = dI~V.d;qI~V.2;qI~q.d
A:
A:
      13609.2038,
                     Layer 5 to 4
                                        Message = r[E.u_H1xbK4{eN7~hr}:
      13619.3404,
                     Layer 5 to 4
                                        Message = snid YTOJE?:50+&~yts
A:
A:
      13624.6648,
                     Layer 5 to 4
                                        Message = t # x; HTamy (4AMYfr~-9F
      13631.6093,
                     Layer 5 to 4
                                        Message = uuSq10m-Ki)Ge%Ca~>]z
A:
A:
      13647.8793, Layer 5 to 4
                                        Message = vHvIxJyKzL\{M|N\}O\sim P!Q
      13657.5954,
                     Layer 5 to 4
                                        Message = wZ=wbE(iLxpS6wZ=~bE(
A:
                      Layer 5 to 4
      13676.4912,
                                        Message = dmbVx?4) {peY2C7, ~sh]
A:
      13677.1519,
                      Layer 5 to 4
                                        Message = yf(.4yAGMSY)^13x~'-3
A:
      13683.1241,
                     Layer 5 to 4
                                        Message = z4Ld{5ze|6Nf}70q~8Ph
      13697.8996,
                     Layer 5 to 4
                                        Message = {Gp;e0Y{NwCl7a,U~Js>
A:
      13708.7912,
                     Layer 5 to 4
                                        Message = |Y6qN+fC|Z7rO, qD\sim[8s]
A:
A:
      13724.4956,
                     Layer 5 to 4
                                        Message = }lZI7&raO},xgUD2~m[J
                     Layer 5 to 4
      13727.4286,
A:
                                        13742.9209, Layer 5 to 4
                                        Message = !3EVhy->Pbs'2J[m~2DU
A:
      13762.5686, Layer 5 to 4 Message = ##i.Qt9]!Eh-Ps8[~Dg,
A:
```

```
A:
      13781.2219,
                     Layer 5 to 4 Message = $X$d:oFzQ(]3h>sJ~U,a
A:
      13786.0593,
                      Layer 5 to 4
                                       Message = fS%jR:#iQ9!h38~g07
      13789.5998,
                     Layer 5 to 4
                                       A:
                     Layer 5 to 4
A:
      13794.8620,
                                       Message = '2=IT'kv$x:FQ]hs\sim,7C
      13795.6114,
                     Layer 5 to 4
                                       Message = (Eb~=Z(6SpxLi(Eb~=Zw
A:
      13811.2364,
                     Layer 5 to 4
                                       Message = dW(V'U\&) %S$R2Q!P~O}N
A:
A:
      13820.8086,
                     Layer 5 to 4
                                        Message = *jL.nP2r*6vX:z]>~aC%
                     Layer 5 to 4
                                       Message = +|pdWK>2&+k RF9-~rfY
A:
      13840.6104,
A:
      13849.1837,
                     Layer 5 to 4
                                       Message = ,16;AFKPUZ,ejoty~&+0
                     Layer 5 to 4
                                        Message = -DZq*AWn'=T-$:Qh~7Ne
      13861.4105,
A:
                      Layer 5 to 4
                                        Message = .f~Iq;d.V~Iq.d3V~Iq;
A:
      13876.0640,
                     Layer 5 to 4
      13877.8775,
                                        Message = xiE~Z6pL(b=wSxiE~Z6p
A:
                     Layer 5 to 4
      13878.1960,
                                        Message = d\{iVD1|jWE2\}2X03\sim1YG
A:
A:
      13891.3669, Layer 5 to 4
                                        Message = 10x.-,+*) ('&%$\$1~}|{
                                        Message = 2CSdt'7HXiy, <M^n21BR</pre>
A:
      13893.5394, Layer 5 to 4
A:
      13906.8361, Layer 5 to 4
                                       Message = 3Uw;^!Df*Ln2Tv:]~3e)
      13924.4106, Layer 5 to 4
                                       Message = 4h=qGzP&Yxc8lBuK~T4^
A:
      13939.5557, Layer 5 to 4
                                       Message = 5zbI0u]D+pW>&kR9~fM5
A:
      13943.7470,
                     Layer 5 to 4
                                       Message = 6x(~wpibZSLE=6x(~wpi
A:
                     Layer 5 to 4
A:
      13946.0629,
                                       Message = d7LVaku!, 6AK2`3t~+5?
      13949.9372,
                     Layer 5 to 4
                                       Message = 8T8.Jf?[w5Qm+Gc~<Xt
Α:
      13965.4397,
                     Layer 5 to 4
                                       Message = 9g693a0^-Z*W'T$Q~N\{K
A:
                                       Message = :yZ;:[<{]=|^>} ?~`A!
      13974.8429,
                     Layer 5 to 4
A:
      13994.4285,
                     Layer 5 to 4
                                       Message = ;.~qd;I;.~qdVI;.~qdV
A:
A:
      14009.8254,
                     Layer 5 to 4
                                       Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
      14026.4574,
                     Layer 5 to 4
                                       Message = =Si~6Lb=xEZp(=Si~6Lb
A:
      14035.7501,
                     Layer 5 to 4
A:
                                       Message = dfxV}Gn7>(Ov2g0W~Ho8
      14038.5097,
                     Layer 5 to 4
                                       Message = ?xS.gBzU0?D|W2kF\sim Y4m
A:
      14039.5637,
                     Layer 5 to 4
                                       Message = AfwdP<)s`LA%o[34~kWD</pre>
      14054.2674,
                     Layer 5 to 4
                                       Message = B?=;97531x-B)'%\#\sim|zx
A:
A:
      14058.6923, Layer 5 to 4
                                       Message = CRbq#2BQap!1CP`o~0?0
A:
      14067.6802, Layer 5 to 4
                                       Message = De(Ij-No2St7XD<^~Bc&</pre>
A:
      14087.3271, Layer 5 to 4
                                        Message = EwL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL) )))
      14093.6909,
                     Layer 5 to 4
                                       Message = d,pV<\#gM3w^D2nTF\sim eK1
A:
      14110.0012, Layer 5 to 4
                                       Message = G>6.&{skcZRJB91)Gvnf
Α:
                     Layer 5 to 4
      14116.7285,
                                       Message = HQZdmv!+4=GPYclu~H3<
                     Layer 5 to 4
A:
      14122.0345,
                                       Message = Id~; Vq.Id~; Vq.Id~; Iq
      14139.7017,
                     Layer 5 to 4
                                       Message = JfEq?l:g5b0]+W3R~MyJ
A:
A:
      14152.4748,
                     Layer 5 to 4 Message = K+iI)gG'eE%cC#aA~ >|
A:
      14169.7679,
                     Layer 5 to 4
                                       Message = LLx~pbSE6(wiZL=x~pbS
      14175.4594,
                     Layer 5 to 4
                                       Message = dPMVY] `cfilo2ux{~$'*
A:
      14192.0585, Layer 5 to 4
                                       Message = NcwNCWl#7Lau,AUj~5J
A:
      14193.4184, Layer 5 to 4
                                       Message = Ou=dORxAgxU{Dj2X~Gm5
A:
                     Layer 5 to 4
                                        Message = P*b;sP' 8pJ$[5mG~X2j
      14210.0998,
A:
      14213.1609,
                     Layer 5 to 4
                                        Message = Q<(q]HQ|hS>*s J5~jUA
A:
A:
      14221.8350,
                     Layer 5 to 4
                                        Message = ROLIFC?R9630-*'$~{xu
                     Layer 5 to 4
      14227.8036,
                                       Message = Sfp~x=LZSw(6ES3p~x=L
A:
A:
      14241.3090, Layer 5 to 4
                                       Message = dt6Vv8Xx:Tz<2|> ~Aa#
      14247.5802, Layer 5 to 4
                                        Message = U) Z. `3e8j=UCtHyM~R&W
A:
A:
      14266.1228, Layer 5 to 4
                                       Message = V;~dI.qV;~dV.qV;~dI.
                     Layer 5 to 4
                                       Message = WNE;2) }tkbXOW<3*~ulc</pre>
      14273.1141,
A:
                     Layer 5 to 4
      14275.0456,
                                       Message = Xaiqy$,4<EMU^Xnv~)19</pre>
A:
      14277.6696,
                     Layer 5 to 4
                                        Message = YsxIc|8Rl(B[u1Ye~:Tn
      14280.0177,
A:
                     Layer 5 to 4
                                       Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE)
      14283.8008,
                     Layer 5 to 4
                                       Message = d:wV5rQ0mL+h2&cB[^<y</pre>
A:
      14286.7408,
                     Layer 5 to 4
                                       Message = ]f=.|m^N>x}n O30~]P
A:
                     Layer 5 to 4
                                        Message = ^`bdfhjlnprtvxz|~#^'
A:
      14299.1162,
      14312.4917,
                     Layer 5 to 4
A:
                                       Message = r(;Ocv,?Sgz0DWk~4H
                                       Message = \frac{1}{Lq8}\%Jo6[\#Hm4Y\sim Fk2]
      14313.9413, Layer 5 to 4
A:
      14318.3470, Layer 5 to 4 Message = aapI!X1hAwP) `80H~W0g
A:
```

```
A:
     14324.8500,
                  Layer 5 to 4
                                Message = bLb~iS=(pZExwbL6~iS=
A:
     14340.4595,
                  Layer 5 to 4
                                Message = d ZcRNJFB=952-)%~zvr
     14349.9707,
                 Layer 5 to 4
                                Message = dq~.dIVdq~.;IVdq~.;I
A:
A:
     14364.2871,
                 Layer 5 to 4
                                Message = e&Ed%ec$Cb#Ba!A`~? }
     14379.6182,
                 Layer 5 to 4
                                Message = ffi;l>fBrEuHxK3N~Q$T
A:
     14389.1682,
                 Layer 5 to 4
                                Message = gKxqU9\{gD(jN2tX<\sim cG+
A:
A:
     14397.1879,
                 Layer 5 to 4
                                 Message = h^SI>4*\}hi TJ?5+~tj`
                 Layer 5 to 4
A:
     14403.6116,
                                Message = ipw \sim (x6 = EiSZbipw \sim (x6)
A:
     14406.8460,
                 Layer 5 to 4
                                Message = d\%=Vo*C[txja24Mf~9Rk]
                  Layer 5 to 4
                                Message = k7b.X\%OyFp<k3^*T\sim KuB
     14426.5356,
A:
                  Layer 5 to 4
A:
     14430.7119,
                                 Message = lJ(dB)[9uS1ml)eC~]:v
                 Layer 5 to 4
A:
     14442.0141,
                                Message = m]L;+xhWG6&scmB1~n^M
A:
     14458.0861,
                 Layer 5 to 4
                                 Message = nopqrstuvwxyz{n}~!#$
     14460.0988, Layer 5 to 4
A:
                                 Message = of6I[n#5HZm!4G3o~3FX
A:
     14466.3778, Layer 5 to 4
                                 Message = p6Z~EixSw=b(Lp6ZpEix
                                Message = dI~V.d;qI~V.2;qI~q.d
A:
     14478.2560, Layer 5 to 4
                 Layer 5 to 4
     14495.0825,
                                Message = r[E.u H1xbK4{eN7~hr}:
A:
                 Layer 5 to 4
                                Message = snid \overline{Y}TOJE?:50+&\sim yts
     14498.2066,
A:
     14505.5332,
                 Layer 5 to 4
A:
                                Message = t # x; HTamy (4AMYfr~-9F
                 Layer 5 to 4
A:
     14523.4749,
                                Message = uuSq10m-Ki)Ge%Ca~>]z
     14531.4280,
                 Layer 5 to 4
                                Message = vHvIxJyKzL\{M|N\}O\sim P!Q
Α:
     14538.3252,
                 Layer 5 to 4
                                Message = wZ=wbE(iLxpS6wZ=~bE(
A:
                 Layer 5 to 4
A:
     14540.7780,
                                Message = dfbVx?4) {peY2C3,~sh]
     14544.6879,
                 Layer 5 to 4
                                Message = y!(.4yAGMSY`flrx~'-3
A:
A:
     14558.9372,
                 Layer 5 to 4
                                Message = z4Ld{5ze|6Nf}70q~8Ph
     14566.3462,
                 Layer 5 to 4
                                Message = {Gp;e0Y{NwCl7a,U~Js>
A:
                 Layer 5 to 4
A:
     14569.2679,
                                Message = |Y6qN+fC|Z7rO, qD\sim[8s]
     14573.4545,
                 Layer 5 to 4
                                Message = \{1ZI7\&raO\}, xgUD2~m[J
A:
A:
     14577.6086,
                 Layer 5 to 4
                                A:
                 Layer 5 to 4
                                Message = !3EVhy->Pbs'2J[m~2DU
     14596.2235,
A:
     14596.4852, Layer 5 to 4
                                Message = \#\#i.Qt9]!Eh-Ps8[~Dq,
A:
     14616.1939, Layer 5 to 4
                                 Message = f0.0FzQ(]3h>3J~U,a
                                Message = %kS%jR:#iQ9!hP8~g07
A:
     14620.0349, Layer 5 to 4
     14634.4171,
                 Layer 5 to 4
                                Message = &}wq&e XRLF?93-'~xrl
A:
     14637.4078,
                 Layer 5 to 4
                                Message = '2=IT'kv$x:FQ]hs\sim,7C
Α:
A:
     14642.2528,
                 Layer 5 to 4
                                Message = (Eb \sim = Z (6SpxLi (Eb \sim = Zw))
                                Message = dW(V'U\&)%S$R2Q!P~O}N
A:
     14651.9264,
                 Layer 5 to 4
                                Message = *jL.nP2r*6vX:z]>~aC%
     14655.4281,
                 Layer 5 to 4
A:
     14668.9043,
                 Layer 5 to 4
                                Message = +|pdWK>2&+k RF9-~rfY
A:
A:
     14682.6884,
                 Layer 5 to 4
                                Message = ,16;AFKPUZ,ejoty~&+0
     14692.8210,
                 Layer 5 to 4
                                Message = -fZq*AWn'=T-$:3h~7Ne
A:
     14710.8325,
                 Layer 5 to 4
                                Message = .V~Iq;d.V~Iq.d.V~Iq;
A:
                 Layer 5 to 4
                                Message = xiE~Z6pL(b=wSxiE~Z6p
A:
     14730.1995,
                  Layer 5 to 4
A:
     14731.3264,
                                 Message = d\{iVD1|jWE2\}2X03\sim1YG
     14732.1609,
                  Layer 5 to 4
                                 Message = 10x.-,+*) ('&\$\$\$1~\}|{
A:
A:
     14737.2565,
                 Layer 5 to 4
                                Message = 2CSdt'7HXiy, <M^n21BR</pre>
     14738.1267,
                 Layer 5 to 4
                                Message = 3Uw; ^!Df*Ln2Tv:]~3e)
A:
A:
     14743.7046,
                 Layer 5 to 4
                                Message = 4h=qGzP&Yxc8lBuK~T4^
     14752.4005,
                 Layer 5 to 4
                                 Message = 5zbI0u]D+pW>&kR9~fM5
A:
A:
     14764.3508, Layer 5 to 4
                                Message = 6f(~wpibZSLE=63(~wpi
     14772.0896,
                 Layer 5 to 4
                                Message = d7LVaku!, 6AK2 \dot t^{+5}?
A:
     14778.0246,
                  Layer 5 to 4
                                Message = 8T8.Jf?[w5Qm+Gc~<Xt
A:
     14787.5723,
                 Layer 5 to 4
                                Message = 9g693a0^-Z*W'T$Q~N\{K
A:
     14797.0905,
                 Layer 5 to 4
                                Message = :yZ;:[<{]=|^>}_?~`A!
                                Message = ;.~qd;I;.~qdVI;.~qdV
     14808.6269,
                 Layer 5 to 4
A:
                 Layer 5 to 4
                                Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
     14821.7030,
A:
A:
     14830.4146,
                 Layer 5 to 4
                                 Message = =Si\sim6Lb=xEZp(=Si\sim6Lb
                                Message = dfxVGn7>(Ov2q0W~Ho8
A:
     14847.4772,
                 Layer 5 to 4
                                Message = ?fS.gBzU0?D|W23F~Y4m
     14857.8206, Layer 5 to 4
A:
     14859.7849, Layer 5 to 4 Message = A-wdP<)s`LA%o[H4~kWD
A:
```

```
A:
     14873.9775, Layer 5 to 4 Message = B?=;97531x-B)'%=/zx
A:
     14888.7599,
                 Layer 5 to 4
                               Message = CRbq#2BQap!1CP`o~0?0
     14896.3242,
                 Layer 5 to 4
                               Message = De(Ij-No2St7XD<^{Bc}
A:
                 Layer 5 to 4
A:
     14910.0206,
                               Message = EwL\sim S(Zxb6i=pEEL\sim S(Z
     14925.0790, Layer 5 to 4 Message = d,pV<\#gM3w^D2nTF\sim eK1
A:
     14931.6240,
                Layer 5 to 4 Message = G>6.&{skcZRJB91)Gvnf
A:
A:
     14933.4508,
                Layer 5 to 4
                               Message = HQZdmv!+4=GPYclu~H3
                Layer 5 to 4
     14936.8285,
                               Message = If~; Vq.Id~; Vq.3d~; Iq
A:
A:
     14945.8685,
                Layer 5 to 4
                               Message = JvEq?l:q5b0]+W&R~MyJ
A:
                Layer 5 to 4
                               Message = K+iI)gG'eE%cC#aA~ >|
     14960.2168,
     14971.7504,
                 Layer 5 to 4
A:
                               Message = LLx~pbSE6(wiZL=x~pbS
                Layer 5 to 4
     14977.7031,
                               Message = dPMVY] `cfilo2ux{~$'*
A:
     14984.2386,
                Layer 5 to 4
                               Message = NcwNCWl#7Lau,AUj~5J
A:
     14986.0956, Layer 5 to 4
                               Message = Ou=dORxAgxU{Dj2X~Gm5
A:
                               Message = P*b;sP' 8pJ$[5mG~X2j
A:
     14998.1297, Layer 5 to 4
A:
     15015.2809, Layer 5 to 4
                               Message = Q<(q]HQ|hS>*s J5~jUA
     15034.3167,
                Layer 5 to 4
                               Message = RfLIFC?R9630-*3$~{xu
A:
     15049.5343, Layer 5 to 4
                               Message = Sbp~x=LZSw(6ESbp~x=L
A:
     15051.6415, Layer 5 to 4
                               Message = dt6Vv8Xx:Tz<2|> ~Aa#
A:
                 Layer 5 to 4
A:
     15067.3041,
                               Message = U) Z. `3e8j=UCtHyM~R&W
     15069.4903,
                Layer 5 to 4
                               Message = V;~dI.qV;~dV.qV;~dI.
Α:
     15073.3993, Layer 5 to 4 Message = WNE; 2) } tkbXOW < 3*~ulc
A:
     15091.3315, Layer 5 to 4 Message = Xaiqy$,4<EMU^Xnv~)19
A:
    15098.2368,
                Layer 5 to 4 Message = YsxIc | 8Rl (B[u1Ye~: Tn
A:
                Layer 5 to 4 Message = Z(S~LwEp=i6bxZ(Z~LwE
A:
    15114.7343,
    15128.4338, Layer 5 to 4 Message = dfwV5rQ0mL+h2&3B[^<y]
A:
     15136.8300, Layer 5 to 4
                               Message = ]M=.|m^N>x}n O?0~]`P
A:
     15151.8165,
                 Layer 5 to 4
                               Message = ^`bdfhjlnprtvxz|~#^'
A:
                Layer 5 to 4
                               Message = _r(;Ocv,?Sgz0DWk~4H_
Message = `'Lq8^%Jo6[#Hm4Y~Fk2
A:
     15169.6988,
     15177.9366, Layer 5 to 4
A:
     15190.2869, Layer 5 to 4
                               Message = aapI!X1hAwP) `8oH~W0g
A:
A:
     15202.1443, Layer 5 to 4
                               Message = bLb~iS=(pZExwbL6~iS=
     15209.3237, Layer 5 to 4
                               Message = d ZcRNJFB=952-)%~zvr
A:
     15213.3629, Layer 5 to 4
                               Message = dq~.dIVdq~.;IVdq~.;I
A:
     15220.0057, Layer 5 to 4
                               Message = efEd%ec$Cb#Ba!3`~? }
A:
                Layer 5 to 4
A:
     15224.8056,
                               Message = f8i;l>fBrEuHxK{N~Q$T
                Layer 5 to 4
                               Message = gKxqU9{gD(jN2tX<~cG+</pre>
A:
     15237.1881,
     15249.6332,
                Layer 5 to 4 Message = h^SI>4*}hi_TJ?5+~tj`
A:
A:
     15253.8378, Layer 5 to 4 Message = ipw \sim (x6=EiSZbipw \sim (x6)
                Layer 5 to 4 Message = d%=Vo*C[txja24Mf~9Rk
A:
     15262.0549,
     15265.7999,
                Layer 5 to 4 Message = k7b.X%OyFp<k3^*T~KuB
A:
     15268.8827, Layer 5 to 4
A:
                               Message = lJ(dB)[9uS1ml)eC~]:v
     15281.5588, Layer 5 to 4
                               Message = m]L;+xhWG6&scmB1~n^M
A:
     15287.9618, Layer 5 to 4
A:
                               Message = nfpqrstuvwxyz{n}~!#$
     15303.2088,
                 Layer 5 to 4
                                Message = 0$6I[n#5HZm!4GYo~3FX
A:
A:
     15320.3477,
                 Layer 5 to 4
                               Message = p6Z~EixSw=b(Lp6ZpEix
                 Layer 5 to 4
     15332.6169,
                               Message = dI~V.d;qI~V.2;qI~q.d
A:
A:
     15341.2973,
                Layer 5 to 4
                               Message = r[E.u H1xbK4{eN7~hr}:
     15353.2747, Layer 5 to 4
                               Message = snid YTOJE?:50+&~yts
A:
A:
     15356.6435, Layer 5 to 4
                               Message = t # x; HTamy (4AMYfr~-9F
     15357.4522, Layer 5 to 4
                               Message = uuSq10m-Ki)Ge%Ca~>]z
A:
     15368.7238, Layer 5 to 4
                               Message = vHvIxJyKzL\{M|N\}O\sim P!Q
A:
     15370.5672,
                 Layer 5 to 4
                               Message = wf=wbE(iLxpS6w3=~bE(
A:
                 Layer 5 to 4
                               Message = dmbVx?4) {peY2C7, ~sh]
A:
     15372.1942,
A:
     15377.9085,
                Layer 5 to 4
                               Message = y!(.4yAGMSY`flrx~'-3
     15397.1557,
                Layer 5 to 4 Message = z4Ld{5ze|6Nf}70g~8Ph
A:
     15405.0996, Layer 5 to 4 Message = {Gp;e0Y{NwCl7a,U~Js>
A:
     15418.0905, Layer 5 to 4 Message = |Y6qN+fC|Z7rO, qD^{2}|8s
A:
     15436.7857, Layer 5 to 4 Message = \{1ZI7\&ra0\}, xgUD2\sim m[J
A:
     A:
```

```
A:
      15460.0141,
                      Layer 5 to 4
                                       Message = !3EVhy->Pbs'2J[m~2DU
                                        Message = \#\#i.Qt9]!Eh-Ps3[~Dg,
A:
      15466.4227,
                      Layer 5 to 4
      15475.0492,
                      Layer 5 to 4
                                        Message = X$d:oFzQ(]3h>sJ~U,a
A:
                     Layer 5 to 4
A:
      15482.1535,
                                        Message = %kS%$jR:#iQ9!hP8~g07
      15483.7640,
                     Layer 5 to 4
                                        Message = &}wq&e XRLF?93-'~xrl
A:
                                        Message = '2=IT'kv$x:FQ]hs\sim,7C
      15490.6284,
                     Layer 5 to 4
A:
A:
      15501.6223,
                     Layer 5 to 4
                                        Message = (Eb~=Z(6SpxLi(Eb~=Zw
                     Layer 5 to 4
                                        Message = dW(V'U\&) %S$R2Q!P~O}N
A:
      15514.6269,
A:
      15523.5695,
                     Layer 5 to 4
                                        Message = *jL.nP2r*6vX:z]>~aC%
      15542.5494,
                      Layer 5 to 4
                                        Message = +|pdWK>2&+k RF9-~rfY
A:
                      Layer 5 to 4
A:
      15558.9951,
                                        Message = ,f6;AFKPUZ,ejo3y~&+0
      15561.3967,
                     Layer 5 to 4
A:
                                        Message = -DZq*AWn'=T-$:Qh~7Ne
      15565.1456,
                     Layer 5 to 4
A:
                                        Message = .V~Iq;d.V~Iq.d.V~Iq;
      15573.0201, Layer 5 to 4
                                        Message = xiE~Z6pL(b=wSxiE~Z6p
A:
A:
      15579.6906,
                     Layer 5 to 4
                                        Message = d\{iVD1|jWE2\}2X03\sim1YG
A:
      15590.5381,
                     Layer 5 to 4
                                        Message = 10x.-,+*) ('&%$\$1~}|{
      15605.1133,
                     Layer 5 to 4
                                        Message = 2CSdt'7HXiy, <M^n21BR</pre>
A:
                     Layer 5 to 4
                                        Message = 3Uw;^!Df*Ln2Tv:]~3e)
      15610.4145,
A:
      15626.9620,
                     Layer 5 to 4
                                        Message = 4h=qGzP&Yxc8lBuK~T4^
A:
                     Layer 5 to 4
A:
      15641.0840,
                                        Message = 5fbI0ulD+pW>&k39~fM5
      15649.6610, Layer 5 to 4
                                        Message = 6x(~wpibZSLE=6x(~wpi
Α:
                     Layer 5 to 4
      15663.4271,
                                        Message = d7LVaku!,6AK2`jt~+5?
A:
                     Layer 5 to 4
A:
      15670.2318,
                                        Message = 8T8.Jf$?[w5Qm+Gc~<Xt
      15677.1422,
                     Layer 5 to 4
                                        Message = 9g693a0^-Z*W'T$Q~N\{K
A:
      15680.1401,
A:
                     Layer 5 to 4
                                        Message = :yZ;:[<{]=|^>} ?~`A!
      15684.7200,
                     Layer 5 to 4
                                        Message = ;.~qd;I;.~qdVI;.~qdV
A:
                     Layer 5 to 4
A:
      15700.4914,
                                        Message = <AEIMQ<Y^bfjnrvz~%)-
      15709.3689,
                      Layer 5 to 4
                                        Message = =Si~6Lb=xEZp(=Si~6Lb
A:
A:
      15714.5214,
                     Layer 5 to 4
                                        Message = dfxV}Gn7>(Ov2g3W~Ho8
                     Layer 5 to 4
                                        Message = ?xS.gBzU0?D|W2kF~Y4m
A:
      15731.6493,
A:
      15740.8568, Layer 5 to 4
                                        Message = A-wdP<) s`LA%o[H4~kWD
A:
      15750.6882, Layer 5 to 4
                                        Message = B?=;97531x-B)'%\#\sim|zx
      15767.0494, Layer 5 to 4
A:
                                        Message = CRbq#2BQap!1CP`o~0?0
      15769.5455,
                     Layer 5 to 4
                                        Message = De(Ij-No2St7XD<^~Bc&</pre>
A:
      15782.2196,
                     Layer 5 to 4
                                        Message = EwL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL) )))
Α:
A:
      15794.9185,
                     Layer 5 to 4
                                        Message = d,pV<#gM3w^D2nTF~eK1
A:
      15805.3116,
                     Layer 5 to 4
                                        Message = G>6.&{skcZRJB91)Gvnf
      15823.2425,
                     Layer 5 to 4
                                        Message = HfZdmv!+4=GPYc3u~H3<</pre>
A:
      15827.8916,
                     Layer 5 to 4
                                       Message = Id~; Vq.Id~; Vq.Id~; Iq
A:
A:
      15845.1195,
                     Layer 5 to 4
                                        Message = JvEq?1:g5b0]+W&R~MyJ
      15853.7401,
                     Layer 5 to 4
                                        Message = K+iI)gG'eE%cC#aA~ >|
A:
      15860.4101,
                     Layer 5 to 4
                                        Message = LLx~pbSE6(wiZL=x~pbS
A:
      15863.8929, Layer 5 to 4
                                        Message = dPMVY]`cfilo2ux{~$'*
A:
                      Layer 5 to 4
      15878.7787,
                                        Message = NcwNCWl#7Lau,AUj~5J
A:
      15884.3596,
                      Layer 5 to 4
                                        Message = Ou=dORxAqxU{Dj2X~Gm5
A:
                                        Message = P*b;sP'_8pJ$[5mG~X2j
A:
      15901.9599,
                     Layer 5 to 4
      15911.4562,
                     Layer 5 to 4
                                        Message = Qf(q)HQ|hS>*s 35~jUA
A:
A:
      15915.0597,
                     Layer 5 to 4
                                        Message = ROLIFC?R9630-*'$\sim{xu}
      15918.9010,
                     Layer 5 to 4
                                        Message = Sbp \sim x = LZSw (6ESbp \sim x = L
A:
A:
      15920.4299, Layer 5 to 4
                                        Message = dt6Vv8Xx:Tz<2|> ~Aa#
      15935.8365,
                     Layer 5 to 4
                                        Message = U) Z. `3e8j=UCtHyM~R&W
A:
                     Layer 5 to 4
      15954.1254,
                                        Message = V;~dI.qV;~dV.qV;~dI.
A:
      15955.5804,
                      Layer 5 to 4
                                        Message = WNE; 2) } tkbXOW<3*~ulc</pre>
A:
      15970.1573,
                     Layer 5 to 4
                                        Message = Xaiqy$,4<EMU^Xnv~)19</pre>
                                        Message = YsxIc|8Rl(B[u1Ye~:Tn
      15984.0248,
                     Layer 5 to 4
A:
      15996.1298,
                     Layer 5 to 4
                                        Message = ZfS~LwEp=i6bxZ3Z~LwE
A:
A:
      16004.7900,
                     Layer 5 to 4
                                        Message = d:wV5rQ0mL+h2&cB[^<y</pre>
                     Layer 5 to 4
      16015.5215,
                                        Message = ]M=.|m^N>x}n O?0~]`P
A:
      16020.3595, Layer 5 to 4
                                        Message = ^`bdfhjlnprtvxz|~#^'
A:
      16021.0600, Layer 5 to 4 Message = r(;Ocv,?Sgz0DWk~4H
A:
```

```
Layer 5 to 4 Message = \label{eq:lq8^8Jo6[#Hm4Y~Fk2]}
A:
     16033.8517,
                                Message = aapI!X1hAwP) `8oH~W0g
A:
     16043.8989,
                 Layer 5 to 4
     16047.4342,
                 Layer 5 to 4
                                Message = bLb~iS=(pZExwbL6~iS=
A:
     16066.5647,
                 Layer 5 to 4
A:
                                Message = d ZcRNJFB=952-)%~zvr
     16071.8635, Layer 5 to 4
                                Message = df~.dIVdq~.;IV3q~.;I
A:
     16089.1241,
                 Layer 5 to 4
                                Message = e&Ed%ec$Cb#Ba!A`~? }
A:
A:
     16107.2264,
                 Layer 5 to 4
                                Message = f8i;l>fBrEuHxK{N~Q$T
     16113.0949, Layer 5 to 4
A:
                                Message = gKxqU9\{qD(jN2tX<\sim cG+
A:
     16125.7558,
                 Layer 5 to 4
                                Message = h^SI>4*hi TJ?5+~tj`
     16136.9268,
                 Layer 5 to 4
                                Message = ipw \sim (x6 = EiSZbipw \sim (x6)
A:
                 Layer 5 to 4
A:
     16148.1345,
                                Message = d%=Vo*C[txja24Mf~9Rk
                 Layer 5 to 4
                                Message = k7b.X%OyFp<k3^*T~KuB
A:
     16155.6270,
     16161.5239,
                 Layer 5 to 4
                                Message = lJ(dB)[9uS1ml)eC~]:v
A:
     16171.6113, Layer 5 to 4
                                Message = mfL; +xhWG6&scm31~n^M
A:
A:
     16190.3960, Layer 5 to 4
                                Message = nopqrstuvwxyz{n}~!#$
A:
     16204.1498, Layer 5 to 4
                                Message = 0$6I[n#5HZm!4GYo~3FX
     16204.5849, Layer 5 to 4
                                Message = p6Z~EixSw=b(Lp6ZpEix
A:
     16217.3286, Layer 5 to 4
                                Message = dI~V.d;qI~V.2;qI~q.d
A:
     16221.3882, Layer 5 to 4
                                Message = r[E.u H1xbK4{eN7~hr}:
A:
                 Layer 5 to 4
                                Message = snid YTOJE?:50+&~yts
A:
     16229.9645,
     16232.8362,
                 Layer 5 to 4
                                Message = t # x; HTamy (4AMYfr~-9F
Α:
     16236.4090, Layer 5 to 4
                                Message = uuSq10m-Ki)Ge%Ca~>]z
A:
     16245.5988,
                 Layer 5 to 4
A:
                                Message = vfvIxJyKzL{M|N30~P!Q
    16258.4400,
                 Layer 5 to 4
                                Message = wZ=wbE(iLxpS6wZ=\sim bE(
A:
A:
    16260.3702,
                 Layer 5 to 4
                                Message = dmbVx?4) {peY2C7, ~sh]
     16260.5750, Layer 5 to 4
                                Message = y!(.4yAGMSY`flrx~'-3
A:
     16262.4059, Layer 5 to 4
A:
                                Message = z4Ld{5ze|6Nf}70g~8Ph
     16274.2951,
                 Layer 5 to 4
                                Message = {Gp;e0Y{NwCl7a,U~Js>
A:
                 Layer 5 to 4
A:
     16277.2402,
                                Message = |Y6qN+fC|Z7rO, qD\sim[8s]
                 Layer 5 to 4
                                Message = }lZI7&raO},xgUD2~m[J
A:
     16295.2427,
A:
     16302.5122, Layer 5 to 4
                                A:
     16320.8951, Layer 5 to 4
                                Message = !fEVhy->Pbs'2J3m~2DU
     16323.0101,
                                Message = \#\#i.Qt9]!Eh-Ps8[~Dq,
A:
                 Layer 5 to 4
     16330.6149,
                                Message = X$d:oFzQ(]3h>sJ~U,a
                 Layer 5 to 4
A:
                 Layer 5 to 4
                                Message = %kS%jR:#iQ9!hP8~gO7
     16343.6486,
Α:
                 Layer 5 to 4
     16360.7786,
                                Message = & wq&e XRLF?93-'~xrl
A:
     16365.3439,
                 Layer 5 to 4
                                Message = '2=IT'kv$x:FQ]hs\sim,7C
     16373.9638,
                 Layer 5 to 4
                                Message = (Eb~=Z(6SpxLi(Eb~=Zw
A:
A:
     16388.9375,
                 Layer 5 to 4 Message = dW(V'U\&)%S$R2Q!P~O\}N
A:
     16391.8267,
                 Layer 5 to 4
                                Message = *jL.nP2r*6vX:z]>~aC%
     16409.6705,
                 Layer 5 to 4
                                Message = +fpdWK>2&+k RF3-~rfY
A:
     16411.8022,
                 Layer 5 to 4
                                Message = ,16;AFKPUZ,ejoty~&+0
A:
     16419.4216, Layer 5 to 4
                                Message = -DZq*AWn'=T-$:Qh~7Ne
A:
                 Layer 5 to 4
     16438.7931,
                                Message = .V~Iq;d.V~Iq.d.V~Iq;
A:
     16455.1586,
                 Layer 5 to 4
                                Message = xiE~Z6pL(b=wSxiE~Z6p
A:
A:
     16469.2579,
                 Layer 5 to 4
                                Message = d\{iVD1|jWE2\}2X03\sim1YG
     16475.8941,
                 Layer 5 to 4
                                Message = 10x.-,+*) ('&%$\$\$1~}|{
A:
                                Message = 2CSdt'7HXiy, <M^n21BR</pre>
A:
     16491.4616,
                 Layer 5 to 4
     16493.5657, Layer 5 to 4
                                Message = 3Uw; ^!Df*Ln2Tv:]~3e)
A:
A:
     16497.6410, Layer 5 to 4
                                Message = 4f=qGzP&Yxc8lB3K~T4^
     16511.1274, Layer 5 to 4
                                Message = 5zbI0u]D+pW>&kR9~fM5
A:
                 Layer 5 to 4
     16517.6672,
                                Message = 6x(~wpibZSLE=6x(~wpi
A:
     16519.9824,
                 Layer 5 to 4
                                Message = d7LVaku!,6AK2`jt~+5?
A:
     16531.3824,
                 Layer 5 to 4
                                Message = 8T8.Jf$?[w5Qm+Gc~<Xt
     16531.4351,
                 Layer 5 to 4
                                Message = 9g693a0^-Z*W'T$Q~N\{K
A:
     16536.6274,
                 Layer 5 to 4
                                Message = :yZ;: [<{]=|^>} ?~ `A!
A:
                 Layer 5 to 4
A:
     16542.9407,
                                Message = ;.~qd;I;.~qdVI;.~qdV
     16551.2933,
                 Layer 5 to 4
                                Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
A:
     16553.2573, Layer 5 to 4 Message = =fi\sim6Lb=xEZp(=3i\sim6Lb
A:
     16562.9795, Layer 5 to 4 Message = dfxV}Gn7>(Ov2g0W~Ho8
A:
```

```
A:
     16563.3773,
                  Layer 5 to 4
                                 Message = ?xS.gBzU0?D|W2kF~Y4m
A:
     16569.1816,
                  Layer 5 to 4
                                 Message = A-wdP<) s`LA%o[H4~kWD
     16581.9226,
                  Layer 5 to 4
                                 Message = B?=;97531x-B)'%\#\sim|zx
A:
                 Layer 5 to 4
A:
     16600.3350,
                                 Message = CRbq#2BQap!1CP`o~0?0
     16617.3928,
                 Layer 5 to 4
                                 Message = De(Ij-No2St7XD<^~Bc&</pre>
A:
     16627.3348,
                 Layer 5 to 4
                                 Message = EwL\sim S(Zxb6i=pEEL\sim S(Z
A:
A:
     16643.1863,
                 Layer 5 to 4
                                 Message = d,pV<\#gM3w^D2nTF\sim eK1
                 Layer 5 to 4
                                 Message = Gf6.&{skcZRJB93)Gvnf
A:
     16658.1192,
A:
     16675.8853,
                 Layer 5 to 4
                                 Message = HQZdmv!+4=GPYclu~H3
                  Layer 5 to 4
                                 Message = Id~; Vq.Id~; Vq.Id~; Iq
     16691.0323,
A:
                  Layer 5 to 4
A:
     16706.3532,
                                 Message = JvEq?1:g5b0]+W&R~MyJ
     16725.4830,
                 Layer 5 to 4
A:
                                 Message = K+iI)gG'eE%cC#aA~ >|
                                 Message = LLx~pbSE6(wiZL=x~pbS
     16739.7506,
                 Layer 5 to 4
A:
     16754.4987, Layer 5 to 4
                                 Message = dPMVY] `cfilo2ux{~$'*
A:
A:
     16766.8994,
                 Layer 5 to 4
                                 Message = NcwNCWl#7Lau,AUj~5J
A:
     16785.4070,
                 Layer 5 to 4
                                 Message = Ou=dORxAgxU{Dj2X~Gm5
     16802.6468,
                 Layer 5 to 4
                                 Message = Pfb;sP' 8pJ$[53G~X2j
A:
                 Layer 5 to 4
                                 Message = Q<(q]HQ|hS>*s J5~jUA
     16810.8446,
A:
     16812.6658, Layer 5 to 4
                                 Message = ROLIFC?R9630-*^{*}$~{xu
A:
                 Layer 5 to 4
A:
     16820.3398,
                                 Message = Sbp \sim x = LZSw (6ESbp \sim x = L
     16837.9527,
                 Layer 5 to 4
                                 Message = dt6Vv8Xx:Tz<2|> ~Aa#
Α:
                 Layer 5 to 4
     16838.4033,
                                 Message = U) Z. `3e8j=UCtHyM~R&W
A:
                                 Message = V;~dI.qV;~dV.qV;~dI.
                 Layer 5 to 4
A:
     16851.0097,
     16867.3871,
                 Layer 5 to 4
                                 Message = WNE; 2) } tkbXOW<3*~ulc</pre>
A:
A:
     16882.1669,
                 Layer 5 to 4
                                 Message = Xaiqy$,4<EMU^Xnv~)19</pre>
     16885.5208,
                 Layer 5 to 4
                                 Message = YfxIc|8Rl(B[u1Ye~:Tn
A:
                 Layer 5 to 4
                                 Message = Z(S~LwEp=i6bxZ(Z~LwE
A:
     16895.4058,
     16911.5596,
                  Layer 5 to 4
                                 Message = d:wV5rQ0mL+h2&cB[^<y</pre>
A:
A:
     16929.3744,
                 Layer 5 to 4
                                 Message = ]M=.|m^N>x}n O?0~]`P
A:
     16942.3538,
                 Layer 5 to 4
                                 Message = ^`bdfhjlnprtvxz|~#^'
                                 Message = _r(;Ocv,?Sgz0DWk~4H_
Message = `'Lq8^%Jo6[#Hm4Y~Fk2
A:
     16947.1839, Layer 5 to 4
A:
     16965.8913, Layer 5 to 4
                                 Message = aapI!X1hAwP) `8oH~W0g
A:
     16981.3404, Layer 5 to 4
     16995.4071,
                 Layer 5 to 4
                                 Message = bLb~iS=(pZExwbL6~iS=
A:
     17014.6599,
                 Layer 5 to 4
                                 Message = dfZcRNJFB=952-3%~zvr
A:
A:
     17016.3099,
                 Layer 5 to 4
                                 Message = dq~.dIVdq~.;IVdq~.;I
A:
     17027.0228,
                 Layer 5 to 4
                                 Message = e&Ed%ec$Cb#Ba!A`~? }
                                 Message = f8i;1>fBrEuHxK\{N\sim Q\$T\}
     17029.7788,
                 Layer 5 to 4
A:
     17049.3844,
                 Layer 5 to 4 Message = gKxqU9{gD(jN2tX<~cG+
A:
A:
     17060.4059,
                 Layer 5 to 4
                                 Message = h^SI>4*hi TJ?5+~tj`
     17079.8678,
                 Layer 5 to 4
                                 Message = ipw \sim (x6 = EiSZbipw \sim (x6)
A:
     17095.6909,
                 Layer 5 to 4
                                 Message = d%=Vo*C[txja24Mf~9Rk
A:
                 Layer 5 to 4
                                 Message = k7b.X\%OyFp< k3^*T~KuB
A:
     17114.6840,
                  Layer 5 to 4
     17131.7547,
                                 Message = lf(dB)[9uS1ml)3C~]:v
A:
     17139.1426,
                  Layer 5 to 4
                                 Message = m]L;+xhWG6&scmB1~n^M
A:
A:
     17146.6999,
                 Layer 5 to 4
                                 Message = nopqrstuvwxyz{n}~!#$
     17163.4474,
                 Layer 5 to 4
A:
                                 Message = 0$6I[n#5HZm!4GYo~3FX
A:
     17177.2298,
                 Layer 5 to 4
                                 Message = p6Z~EixSw=b(Lp6ZpEix
     17178.7816, Layer 5 to 4
                                 Message = dI~V.d;qI~V.2;qI~q.d
A:
A:
     17179.2061, Layer 5 to 4
                                 Message = r[E.u H1xbK4{eN7~hr};
     17193.7211,
                 Layer 5 to 4
                                 Message = snid YTOJE?:50+&~yts
A:
                  Layer 5 to 4
     17208.7773,
                                 Message = t # x; HTamy (4AMYfr~-9F
A:
     17218.2482,
                  Layer 5 to 4
                                 Message = uuSq10m-Ki)Ge%3a~>]z
     17235.0496,
A:
                 Layer 5 to 4
                                 Message = vHvIxJyKzL\{M|N\}O\sim P!Q
     17235.5676,
                 Layer 5 to 4
                                 Message = wZ=wbE(iLxpS6wZ=~bE(
A:
     17242.2406,
                 Layer 5 to 4
                                 Message = dmbVx?4) {peY2C7, ~sh]
A:
A:
     17255.5639,
                 Layer 5 to 4
                                 Message = y!(.4yAGMSY`flrx~'-3
                 Layer 5 to 4
     17259.9152,
                                 Message = z4Ld{5ze|6Nf}70g~8Ph
A:
     17271.7573, Layer 5 to 4
                                 Message = {Gp;e0Y{NwCl7a,U~Js>
A:
     17281.8198, Layer 5 to 4 Message = |Y6qN+fC|Z7rO, qD\sim[8s]
A:
```

```
A:
     17282.2587,
                  Layer 5 to 4
                                 Message = }lZI7&raO},xgUD2~m[J
A:
     17299.2693,
                  Layer 5 to 4
                                 Message = \sim f \sim \sim \sim \sim \sim 3 \sim \sim \sim
     17316.3992,
                  Layer 5 to 4
                                 Message = !3EVhy->Pbs'2J[m~2DU
A:
A:
     17318.5272,
                  Layer 5 to 4
                                 Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
     17323.6491,
                  Layer 5 to 4
                                 Message = $X$d:oFzQ(]3h>sJ~U,a
A:
     17328.0134,
                  Layer 5 to 4
                                 Message = %kS%jR:#iQ9!hP8~gO7
A:
A:
     17338.0784,
                  Layer 5 to 4
                                 Message = & \ wq&e XRLF?93-'~xrl
                  Layer 5 to 4
                                 Message = '2=IT'kv$x:FQ]hs\sim,7C
A:
     17341.5492,
                                 Message = (Eb \sim = Z (6SpxLi(Eb \sim = Zw))
A:
     17355.4111,
                  Layer 5 to 4
     17372.3962,
                  Layer 5 to 4
                                 Message = dW(V'U\&)%SR2Q!P~ON
A:
     17379.7175,
                  Layer 5 to 4
A:
                                 Message = *fL.nP2r*6vX:z3>~aC%
     17389.5962,
                  Layer 5 to 4
A:
                                 Message = +|pdWK>2&+k RF9-~rfY
     17401.6339,
                  Layer 5 to 4
A:
                                 Message = ,16;AFKPUZ,ejoty~&+0
     17418.0532,
                  Layer 5 to 4
                                 Message = -DZq*AWn'=T-$:Qh~7Ne
A:
A:
     17436.9740,
                  Layer 5 to 4
                                 Message = .V~Iq;d.V~Iq.d.V~Iq;
A:
     17439.8501,
                  Layer 5 to 4
                                 Message = xiE~Z6pL(b=wSxiE~Z6p
     17457.4787,
                  Layer 5 to 4
                                 Message = d\{iVD1|jWE2\}2X03\sim1YG
A:
                  Layer 5 to 4
                                 Message = 10x.-,+*) ('&%$\$1~}|{
     17461.9427,
A:
                                 Message = 2CSdt'7HXiy, <M^n21BR</pre>
     17469.2484,
                  Layer 5 to 4
A:
A:
     17474.6678,
                  Layer 5 to 4
                                 Message = 3fw;^!Df*Ln2Tv3]~3e
     17479.6139,
                  Layer 5 to 4
                                 Message = 4h=qGzP&Yxc8lBuK~T4^
Α:
                                 Message = 5zbIOu]D+pW>&kR9~fM5
A:
     17487.7119,
                  Layer 5 to 4
                  Layer 5 to 4
     17491.7550,
A:
                                 Message = 6x(~wpibZSLE=6x(~wpi
     17503.4651,
                  Layer 5 to 4
                                 Message = d7LVaku!,6AK2`jt~+5?
A:
A:
     17515.0203,
                  Layer 5 to 4
                                 Message = 8T8.Jf?[w5Qm+Gc~<Xt
     17524.2668,
                  Layer 5 to 4
                                 Message = 9g693a0^-Z*W'T$Q~N\{K
A:
                  Layer 5 to 4
A:
     17540.6959,
                                 Message = :yZ;:[<{]=|^>} ?^A!
     17544.9338,
                  Layer 5 to 4
                                 Message = ;.~qd;I;.~qdVI;.~qdV
A:
A:
     17551.0318,
                  Layer 5 to 4
                                 Message = \langle fEIMQ \langle Y^bfjnr3z \rangle -
                  Layer 5 to 4
                                 Message = =Si~6Lb=xEZp(=Si~6Lb
A:
     17560.3296,
A:
     17568.2223,
                 Layer 5 to 4
                                 Message = dfxV}Gn7>(Ov2q0W~Ho8
A:
     17580.5051,
                 Layer 5 to 4
                                 Message = ?xS.qBzU0?D|W2kF\sim Y4m
     17598.3341,
                                 Message = A-wdP<)s`LA%o[H4~kWD</pre>
A:
                  Layer 5 to 4
     17610.4720,
                  Layer 5 to 4
                                 Message = B?=;97531x-B)'%\#\sim|zx
A:
     17612.2937,
                  Layer 5 to 4
                                 Message = CRbq#2BQap!1CP`o~0?0
A:
A:
     17628.6610,
                  Layer 5 to 4
                                 Message = De(Ij-No2St7XD<^~Bc&</pre>
A:
     17633.1874,
                  Layer 5 to 4
                                 Message = EwL\sim S(Zxb6i=pEEL\sim S(Z
     17649.8057,
                  Layer 5 to 4
                                 Message = dfpV<\#gM3w^D2n3F\sim eK1
A:
     17652.6327,
                  Layer 5 to 4
                                 Message = G>6.&{skcZRJB91)Gvnf
A:
A:
     17665.5467,
                  Layer 5 to 4
                                 Message = HQZdmv!+4=GPYclu~H3<</pre>
     17671.4322,
                  Layer 5 to 4
                                 Message = Id~; Vq.Id~; Vq.Id~; Iq
A:
     17690.0641,
                  Layer 5 to 4
                                 Message = JvEq?1:g5b0]+W&R~MyJ
A:
                  Layer 5 to 4
                                 Message = K+iI)gG'eE%cC#aA~ >|
A:
     17695.7219,
     17707.1515,
                  Layer 5 to 4
                                 Message = LLx~pbSE6(wiZL=x~pbS
A:
     17724.4474,
                  Layer 5 to 4
                                 Message = dPMVY] `cfilo2ux{~$'*
A:
                                 Message = NcwNCWl#7Lau,AUj~5J
A:
     17736.1944,
                  Layer 5 to 4
     17747.9539,
                  Layer 5 to 4
A:
                                 Message = Of=dORxAgxU{Dj3X~Gm5
A:
     17749.7292,
                  Layer 5 to 4
                                 Message = P*b;sP' 8pJ$[5mG~X2j
     17766.4958,
                  Layer 5 to 4
                                 Message = Q<(q]HQ|hS>*s J5~jUA
A:
                                 Message = ROLIFC?R9630-*'$~{xu
A:
     17783.6083,
                  Layer 5 to 4
                  Layer 5 to 4
                                 Message = Sbp~x=LZSw(6ESbp~x=L
     17792.6478,
A:
     17800.1876,
                  Layer 5 to 4
                                 Message = dt6Vv8Xx:Tz<2|> ~Aa#
A:
     17801.7378,
                  Layer 5 to 4
                                 Message = U) Z. `3e8j=UCtHyM~R&W
A:
     17816.3965,
                  Layer 5 to 4
                                 Message = V;~dI.qV;~dV.qV;~dI.
                                 Message = WNE;2) }tkbXOW<3*~ulc</pre>
     17824.8362,
                  Layer 5 to 4
A:
                  Layer 5 to 4
                                 Message = Xfiqy$, 4 < EMU^X3v^2) 19
     17831.1628,
A:
A:
     17841.8424,
                  Layer 5 to 4
                                 Message = YsxIc|8Rl(B[u1Ye~:Tn
                                 Message = Z(S~LwEp=i6bxZ(Z~LwE
     17853.0001,
A:
                  Layer 5 to 4
     17860.4640, Layer 5 to 4
                                 Message = d:wV5rQ0mL+h2&cB[^<y</pre>
A:
     17867.7924, Layer 5 to 4 Message = ]M=.|m^N>x]n O?0~]`P
A:
```

```
17876.2721,
                                Message = ^`bdfhjlnprtvxz|~#^'
                  Layer 5 to 4
A:
                                Message = _r(;Ocv,?Sgz0DWk~4H_
Message = `'Lq8^%Jo6[#Hm4Y~Fk2
A:
     17894.5821,
                  Layer 5 to 4
     17909.1660,
                 Layer 5 to 4
A:
                 Layer 5 to 4
                                Message = aapI!X1hAwP) `8oH~W0g
A:
     17921.3590,
     17929.6061,
                 Layer 5 to 4
                                Message = bfb~iS=(pZExwb36~iS=
A:
     17939.1236,
                 Layer 5 to 4
                                Message = d ZcRNJFB=952-)%~zvr
A:
A:
     17958.6426,
                 Layer 5 to 4
                                Message = dq~.dIVdq~.;IVdq~.;I
                 Layer 5 to 4
A:
     17975.4450,
                                Message = e&Ed%ec$Cb#Ba!A`~? }
A:
     17992.1844,
                 Layer 5 to 4
                                Message = f8i;l>fBrEuHxK{N~Q$T
                  Layer 5 to 4
     18011.9694,
                                Message = qKxqU9\{qD(jN2tX<\sim cG+
A:
                  Layer 5 to 4
                                Message = h^SI>4*hi TJ?5+~tj
A:
     18018.2198,
                 Layer 5 to 4
A:
     18035.4042,
                                Message = ipw \sim (x6 = EiSZbipw \sim (x6)
     18053.4138,
                 Layer 5 to 4
                                Message = d%=Vo*C[txja24Mf~9Rk
A:
     18061.3470, Layer 5 to 4
                                Message = kfb.X%OyFp<k3^3T~KuB
A:
A:
     18074.1016, Layer 5 to 4
                                 Message = IJ(dB)[9uS1m1)eC~]:v
A:
     18081.7200, Layer 5 to 4
                                Message = m]L;+xhWG6&scmB1~n^M
                 Layer 5 to 4
     18084.4257,
                                Message = nopqrstuvwxyz{n}~!#$
A:
                 Layer 5 to 4
     18098.9636,
                                Message = 0\%I[n#5HZm!4GYo~3FX]
A:
     18116.8656,
                 Layer 5 to 4
A:
                                Message = p6Z~EixSw=b(Lp6ZpEix
                 Layer 5 to 4
A:
     18135.5649,
                                Message = dI~V.d;qI~V.2;qI~q.d
     18155.2663,
                 Layer 5 to 4
                                Message = r[E.u H1xbK4{eN7~hr}:
Α:
     18156.9207,
                 Layer 5 to 4
                                Message = snid YTOJE?:50+&~yts
A:
                 Layer 5 to 4
     18162.3085,
A:
                                Message = tfx; HTamy(4AMY3r\sim-9F
     18174.1122,
                 Layer 5 to 4
                                Message = uuSq10m-Ki)Ge%Ca~>]z
A:
     18179.7136,
A:
                 Layer 5 to 4
                                Message = vHvIxJyKzL\{M|N\}O\sim P!Q
     18182.0339,
                 Layer 5 to 4
                                Message = wZ=wbE(iLxpS6wZ=~bE(
A:
                 Layer 5 to 4
A:
     18199.6852,
                                Message = dmbVx?4) {peY2C7, ~sh]
     18205.0859,
                 Layer 5 to 4
                                Message = y!(.4yAGMSY`flrx~'-3
A:
A:
     18214.2919,
                 Layer 5 to 4
                                Message = z4Ld{5ze|6Nf}70g~8Ph
A:
                 Layer 5 to 4
     18220.2492,
                                Message = {Gp;e0Y{NwCl7a,U~Js>
A:
     18223.2184, Layer 5 to 4
                                Message = |Y6qN+fC|Z7rO,qD\sim[8s]
A:
     18226.7913, Layer 5 to 4
                                Message = fZI7&raO, xqU32~m[J
     18236.4109, Layer 5 to 4
                                A:
     18253.3074,
                 Layer 5 to 4
                                Message = !3EVhy->Pbs'2J[m~2DU
A:
     18273.0819,
                 Layer 5 to 4
                                Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
Α:
                 Layer 5 to 4
A:
     18282.3519,
                                Message = X$d:oFzQ(]3h>sJ~U,a
                 Layer 5 to 4
A:
     18283.7595,
                                Message = %kS%jR:#iQ9!hP8~gO7
     18300.8872,
                 Layer 5 to 4
                                Message = &}wq&e XRLF?93-'~xrl
A:
                                Message = '2=IT'kv$x:FQ]hs\sim,7C
     18307.5226,
                 Layer 5 to 4
A:
A:
     18308.7754,
                 Layer 5 to 4
                                Message = (Eb~=Z(6SpxLi(Eb~=Zw
     18323.0035,
                 Layer 5 to 4
                                Message = df(V'U\&)%S$R2Q3P~O}N
A:
                                Message = *jL.nP2r*6vX:z]>~aC%
     18334.7202,
                 Layer 5 to 4
A:
     18338.7694, Layer 5 to 4
A:
                                Message = +|pdWK>2&+k RF9-~rfY
                 Layer 5 to 4
     18352.7213,
A:
                                 Message = ,16;AFKPUZ,ejoty~&+0
     18362.3718,
                 Layer 5 to 4
                                 Message = -DZq*AWn'=T-$:Qh~7Ne
A:
A:
     18378.2021,
                 Layer 5 to 4
                                Message = .V~Iq;d.V~Iq.d.V~Iq;
     18378.8804,
                 Layer 5 to 4
                                Message = xiE~Z6pL(b=wSxiE~Z6p
A:
A:
     18398.6349,
                 Layer 5 to 4
                                Message = d\{iVD1|jWE2\}2X03\sim1YG
     18413.1328, Layer 5 to 4
                                 Message = 10x.-,+*) ('&%$\$1~}|{
A:
                                Message = 2fSdt'7HXiy, <M3n21BR</pre>
A:
     18418.8063, Layer 5 to 4
     18433.8378, Layer 5 to 4
                                Message = 3Uw;^!Df*Ln2Tv:]~3e)
A:
                 Layer 5 to 4
     18446.9452,
                                Message = 4h=qGzP&Yxc8lBuK~T4^
A:
     18462.8943,
                 Layer 5 to 4
                                Message = 5zbI0u]D+pW>&kR9~fM5
A:
     18479.8231,
                 Layer 5 to 4
                                Message = 6x(~wpibZSLE=6x(~wpi
     18482.7858,
                                Message = d7LVaku!, 6AK2 \dot t^{+5}?
                 Layer 5 to 4
A:
     18496.4574,
                 Layer 5 to 4
                                Message = 8T8.Jf?[w5Qm+Gc~<Xt
A:
A:
     18514.5792,
                 Layer 5 to 4
                                 Message = 9g693a0^-Z*W'T$Q~N{K}
                 Layer 5 to 4
     18529.0752,
                                Message = :yZ;:[<{]=|^>} ?~`A!
A:
     18546.3799, Layer 5 to 4
                                Message = ;f~qd;I;.~qdVI3.~qdV
A:
     18546.5510, Layer 5 to 4 Message = \langle AEIMQ \langle Y \rangle fjnrvz \sim % \rangle -
A:
```

```
A:
     18562.4783,
                  Layer 5 to 4 Message = =Si~6Lb=xEZp(=Si~6Lb
                                Message = dfxVGn7>(Ov2q0W~Ho8
A:
     18572.0589,
                  Layer 5 to 4
     18574.2904,
                 Layer 5 to 4
                                Message = ?xS.qBzU0?D|W2kF\sim Y4m
A:
                 Layer 5 to 4
A:
     18579.6089,
                                Message = A-wdP<)s`LA%o[H4~kWD
                                Message = B?=;97531x-B)'%\#\sim|zx
     18586.4126,
                 Layer 5 to 4
A:
     18597.2220,
                 Layer 5 to 4
                                Message = CRbq#2BQap!1CP`o~0?0
A:
A:
     18610.1590,
                 Layer 5 to 4
                                Message = De(Ij-No2St7XD<^~Bc&</pre>
                 Layer 5 to 4
     18623.0218,
A:
                                Message = EfL\sim S(Zxb6i=pEEL\sim S(Z
A:
     18627.0497,
                 Layer 5 to 4
                                Message = d,pV<\#gM3w^D2nTF\sim eK1
     18644.5451,
                  Layer 5 to 4
                                 Message = G>6.&{skcZRJB91)Gvnf
A:
                  Layer 5 to 4
A:
     18649.3427,
                                 Message = HQZdmv!+4=GPYclu~H3<</pre>
     18662.5226,
                 Layer 5 to 4
A:
                                Message = Id~; Vq.Id~; Vq.Id~; Iq
     18676.9253,
                 Layer 5 to 4
A:
                                 Message = JvEq?1:g5b0]+W&R~MyJ
     18683.8469, Layer 5 to 4
                                Message = K+iI)gG'eE%cC#aA~ >|
A:
A:
     18695.2071, Layer 5 to 4
                                Message = LLx~pbSE6(wiZL=x~pbS
A:
     18706.5493, Layer 5 to 4
                                Message = dPMVY] `cfilo2ux{~$'*
     18714.3094, Layer 5 to 4
                                Message = NfwNCWl#7Lau,A3j~5J
A:
                 Layer 5 to 4
     18718.6211,
                                Message = Ou=dORxAgxU{Dj2X~Gm5
A:
                 Layer 5 to 4
                                Message = P*b;sP' 8pJ$[5mG~X2j
     18724.5027,
A:
                 Layer 5 to 4
                                Message = Q<(q)HQ/hS>*s J5~jUA
A:
     18736.8810,
     18739.9164,
                 Layer 5 to 4
                                Message = ROLIFC?R9630-*'$~{xu
Α:
     18754.9394,
                 Layer 5 to 4
                                Message = Sbp~x=LZSw(6ESbp~x=L
A:
                 Layer 5 to 4
A:
     18766.2355,
                                Message = dt6Vv8Xx:Tz<2|> ~Aa#
     18779.5555,
                 Layer 5 to 4
                                Message = U) Z. `3e8j=UCtHyM~R&W
A:
                                Message = V;~dI.qV;~dV.qV;~dI.
A:
     18789.8399,
                 Layer 5 to 4
     18799.1802,
                 Layer 5 to 4
                                Message = WfE;2) }tkbXOW<3*~ulc</pre>
A:
                 Layer 5 to 4
                                Message = Xaiqy$,4<EMU^Xnv~)19</pre>
A:
     18800.9953,
     18808.7279,
                 Layer 5 to 4
                                Message = YsxIc|8Rl(B[u1Ye~:Tn
A:
A:
     18809.8323,
                 Layer 5 to 4
                                Message = Z(S~LwEp=i6bxZ(Z~LwE
A:
     18811.2153, Layer 5 to 4
                                Message = d:wV5rQ0mL+h2&cB[^<y</pre>
A:
     18815.0211, Layer 5 to 4
                                Message = ]M=.|m^N>x\}n O?0~]`P
A:
     18819.0195, Layer 5 to 4
                                Message = ^`bdfhjlnprtvxz|~#^'
     18820.0233, Layer 5 to 4
                                Message = r(;Ocv,?Sgz0DWk~4H
A:
                                Message = \frac{1}{1}Lq8^%Jo6[#Hm4Y~Fk\frac{1}{2}
     18831.1553, Layer 5 to 4
A:
     18847.2242,
                 Layer 5 to 4
                                Message = aapI!X1hAwP) `83H~W0g
Α:
A:
     18856.9629,
                 Layer 5 to 4
                                Message = bLb~iS=(pZExwbL6~iS=
A:
     18876.0474,
                 Layer 5 to 4
                                Message = d ZcRNJFB=952-)%~zvr
     18888.8576,
                 Layer 5 to 4
                                Message = dq~.dIVdq~.;IVdq~.;I
A:
     18889.7230,
                 Layer 5 to 4 Message = e&Ed%ec$Cb#Ba!A`~? }
A:
A:
     18893.9150,
                 Layer 5 to 4 Message = f8i; 1>fBrEuHxK{N~Q$T
     18909.0442,
                 Layer 5 to 4
                                Message = gKxqU9\{gD(jN2tX<\sim cG+
A:
                                Message = h^SI>4*hi TJ?5+~tj`
     18926.5853, Layer 5 to 4
A:
     18939.1212, Layer 5 to 4
A:
                                Message = ipw \sim (x6 = EiSZbipw \sim (x6)
                 Layer 5 to 4
A:
     18950.5204,
                                 Message = df=Vo*C[txja243f~9Rk]
     18956.6271,
                 Layer 5 to 4
                                 Message = k7b.X\%OyFp< k3^*T\sim KuB
A:
A:
     18972.0039,
                 Layer 5 to 4
                                Message = lJ(dB)[9uS1ml)eC~]:v
     18990.0815,
                 Layer 5 to 4
                                Message = m]L;+xhWG6&scmB1~n^M
A:
A:
     19000.5911,
                 Layer 5 to 4
                                Message = nopqrstuvwxyz{n}~!#$
     19013.9594,
                 Layer 5 to 4
                                 Message = 0$6I[n#5HZm!4GYo~3FX
A:
A:
     19015.9283, Layer 5 to 4
                                Message = p6Z~EixSw=b(Lp6ZpEix
     19026.5835, Layer 5 to 4
                                Message = dI~V.d;qI~V.2;qI~q.d
A:
                 Layer 5 to 4
     19027.4731,
                                Message = r[E.u H1xbK4{eN7~hr}:
A:
                                 Message = sfid YTOJE?:503&~yts
     19037.9203,
                 Layer 5 to 4
     19044.9562,
A:
                 Layer 5 to 4
                                Message = t # x; HTamy (4AMYfr~-9F
     19056.4765,
                 Layer 5 to 4
                                Message = uuSq10m-Ki)Ge%Ca~>]z
A:
     19058.5584,
                 Layer 5 to 4
                                Message = vHvIxJyKzL\{M|N\}O\sim P!Q
A:
A:
     19068.7561,
                 Layer 5 to 4
                                 Message = wZ=wbE(iLxpS6wZ=\sim bE(
                 Layer 5 to 4
                                Message = dmbVx?4) {peY2C7, ~sh]
     19082.1655,
A:
     19093.9440, Layer 5 to 4
                                Message = y!(.4yAGMSY`flrx~'-3
A:
     19094.7545, Layer 5 to 4 Message = z4Ld{5ze|6Nf}70g~8Ph
A:
```

```
A:
     19096.3323,
                 Layer 5 to 4
                                Message = {Gp;e0Y{NwCl7a,U~Js>
A:
     19114.5834,
                 Layer 5 to 4
                                Message = |f6qN+fC|Z7rO,3D\sim[8s]
     19121.8117,
                 Layer 5 to 4
                                Message = }lZI7&raO},xgUD2~m[J
A:
                 Layer 5 to 4
A:
     19127.6048,
                                19132.0808,
                 Layer 5 to 4
                                Message = !3EVhy->Pbs'2J[m~2DU
A:
     19140.0611,
                 Layer 5 to 4
                                Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
A:
A:
     19144.8603,
                 Layer 5 to 4
                                Message = $X$d:oFzQ(]3h>sJ~U,a
                 Layer 5 to 4
     19144.9759,
                                Message = %kS%jR:#iQ9!hP8~gO7
A:
     19147.7226,
A:
                 Layer 5 to 4
                                Message = &}wq&e XRLF?93-'~xrl
     19151.2574,
                 Layer 5 to 4
                                Message = '2=IT'kv$x:FQ]hs\sim,7C
A:
                 Layer 5 to 4
A:
     19160.4306,
                                Message = (fb\sim=Z(6SpxLi(3b\sim=Zw))
                 Layer 5 to 4
     19175.4631,
                                Message = dW(V'U\&)%S$R2Q!P~O}N
A:
     19186.2964,
                 Layer 5 to 4
                                Message = *jL.nP2r*6vX:z]>~aC%
A:
     19202.1819, Layer 5 to 4
                                Message = +|pdWK>2&+k RF9-~rfY
A:
A:
     19209.6050, Layer 5 to 4
                                Message = ,16;AFKPUZ,ejoty~&+0
A:
     19229.2515, Layer 5 to 4
                                Message = -DZq*AWn'=T-$:Qh~7Ne
     19247.4391,
                 Layer 5 to 4
                                Message = .V~Iq;d.V~Iq.d.V~Iq;
A:
                 Layer 5 to 4
                                Message = xiE~Z6pL(b=wSxiE~Z6p
     19266.2221,
A:
                 Layer 5 to 4
     19272.0692,
A:
                                Message = d\{iVD1|jWE2\}2X03\sim1YG
                 Layer 5 to 4
A:
     19285.5824,
                                Message = 1fx.-,+*) ('&%$31~}|{
     19301.3167,
                 Layer 5 to 4
                                Message = 2CSdt'7HXiy, <M^n21BR</pre>
Α:
                 Layer 5 to 4
                                Message = 3Uw;^!Df*Ln2Tv:]~3e)
     19307.4278,
A:
                 Layer 5 to 4
A:
     19317.2104,
                                Message = 4h=qGzP&Yxc8lBuK~T4^
     19332.9322,
                 Layer 5 to 4
                                Message = 5zbI0u]D+pW>&kR9~fM5
A:
A:
     19348.5761,
                 Layer 5 to 4
                                Message = 6x(~wpibZSLE=6x(~wpi
     19356.2677,
                 Layer 5 to 4
                                Message = d7LVaku!,6AK2`jt~+5?
A:
                 Layer 5 to 4
                                Message = 8T8.Jf?[w5Qm+Gc~<Xt
A:
     19368.3286,
     19377.1059,
                 Layer 5 to 4
                                Message = 9g693a0^-Z*W'T$Q~N\{K
A:
A:
     19396.2829,
                 Layer 5 to 4
                                Message = :fZ;:[<{]=|^>}3?^{A}!
     19404.7676, Layer 5 to 4
                                Message = ;.~qd;I;.~qdVI;.~qdV
A:
A:
     19406.9029, Layer 5 to 4
                                Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
A:
     19415.3821, Layer 5 to 4
                                Message = =Si\sim6Lb=xEZp(=Si\sim6Lb
     19424.1632,
A:
                 Layer 5 to 4
                                Message = dfxV}Gn7>(Ov2g0W~Ho8
     19428.8593,
                 Layer 5 to 4
                                Message = ?xS.gBzU0?D|W2kF~Y4m
A:
     19436.4605, Layer 5 to 4
                                Message = A-wdP<)s`LA%o[H4~kWD
A:
A:
     19448.9990,
                 Layer 5 to 4
                                Message = B?=;97531x-B)'%\#~|zx
A:
     19463.7495,
                 Layer 5 to 4
                                Message = CRbq#2BQap!1CP`o~0?0
     19476.0800,
                 Layer 5 to 4
                                Message = Df(Ij-No2St7XD3^~Bc&
A:
A:
     19495.1212,
                 Layer 5 to 4 Message = EwL~S(Zxb6i=pEEL~S(Z
A:
     19500.4906,
                 Layer 5 to 4
                                Message = d,pV<#gM3w^D2nTF~eK1</pre>
     19503.3156,
                 Layer 5 to 4
                                Message = G>6.&{skcZRJB91)Gvnf
A:
     19522.2713,
                 Layer 5 to 4
                                Message = HQZdmv!+4=GPYclu~H3<</pre>
A:
                 Layer 5 to 4
                                Message = Id~; Vq.Id~; Vq.Id~; Iq
A:
     19539.6343,
                 Layer 5 to 4
     19540.7158,
                                Message = JvEq?1:g5b0]+W&R~MyJ
A:
                                Message = K+iI)gG'eE%cC#aA~ >|
     19556.4129,
                 Layer 5 to 4
A:
A:
     19558.5577,
                 Layer 5 to 4
                                Message = LLx~pbSE6(wiZL=x~pbS
     19565.5967,
                 Layer 5 to 4
                                Message = dfMVY] `cfilo2u3{~$'*
A:
A:
     19570.5043,
                 Layer 5 to 4
                                Message = NcwNCWl#7Lau, AUj~5J
     19572.3465,
                 Layer 5 to 4
                                Message = Ou=dORxAgxU{Dj2X~Gm5
A:
                                Message = P*b;sP' 8pJ$[5mG~X2j
A:
     19574.0254, Layer 5 to 4
                 Layer 5 to 4
                                Message = Q<(q]HQ|hS>*s J5~jUA
     19590.9637,
A:
                 Layer 5 to 4
                                Message = ROLIFC?R9630-*'$~{xu
     19593.1415,
A:
     19595.2831,
                 Layer 5 to 4
                                Message = Sbp \sim x = LZSw (6ESbp \sim x = L
A:
     19609.8286,
                 Layer 5 to 4
                                Message = dt6Vv8Xx:Tz<2|> ~Aa#
     19616.5913,
                 Layer 5 to 4
                                Message = U) Z. `3e8j=UCtHyM~R&W
A:
                 Layer 5 to 4
                                Message = Vf~dI.qV;~dV.q3;~dI.
     19617.0802,
A:
A:
     19633.0752,
                 Layer 5 to 4
                                Message = WNE;2) }tkbXOW<3*~ulc</pre>
                 Layer 5 to 4
                                Message = Xaiqy$, 4<EMU^Xnv~)19</pre>
A:
     19641.6327,
     19647.6184, Layer 5 to 4
                                Message = YsxIc|8Rl(B[u1Ye~:Tn
A:
     19649.2875, Layer 5 to 4 Message = Z(S~LwEp=i6bxZ(Z~LwE
A:
```

```
19661.6722,
                 Layer 5 to 4 Message = d:wV5rQ0mL+h2&cB[^<y
A:
A:
     19670.8239,
                 Layer 5 to 4
                                Message = ]M=.|m^N>x}n O?0~]`P
     19683.0395,
                 Layer 5 to 4
                                Message = ^`bdfhjlnprtvxz|~#^'
A:
                                Message = _
A:
     19690.8902,
                 Layer 5 to 4
                                           r(;Ocv,?Sgz0DWk~4H
                                Message = \frac{1}{100}fLq8^%Jo6[#Hm3Y~Fk2
     19698.7920,
                 Layer 5 to 4
A:
     19704.1504,
                 Layer 5 to 4
                                Message = aapI!X1hAwP) `8oH~W0g
A:
A:
     19721.6854,
                 Layer 5 to 4
                                Message = bLb~iS=(pZExwbL6~iS=
                 Layer 5 to 4
A:
     19732.9838,
                                Message = d ZcRNJFB=952-)%~zvr
                 Layer 5 to 4
A:
     19745.2167,
                                Message = dq~.dIVdq~.;IVdq~.;I
                 Layer 5 to 4
                                Message = e&Ed%ec$Cb#Ba!A`~? }
     19764.0145,
A:
                 Layer 5 to 4
A:
     19778.1288,
                                Message = f8i;l>fBrEuHxK{N~Q$T
     19797.5729,
                 Layer 5 to 4
A:
                                Message = gKxqU9\{gD(jN2tX<\sim cG+
     19814.6652,
A:
                 Layer 5 to 4
                                Message = h^SI>4*hi TJ?5+~tj`
     19825.2232, Layer 5 to 4
                                Message = ifw \sim (x6 = EiSZbi3w \sim (x6)
A:
A:
     19833.3789, Layer 5 to 4
                                Message = d%=Vo*C[txja24Mf~9Rk
A:
     19846.1343, Layer 5 to 4
                                Message = k7b.X\%OyFp< k3^*T\sim KuB
     19865.4484, Layer 5 to 4
                                Message = lJ(dB)[9uS1ml)eC~]:v
A:
                 Layer 5 to 4
     19878.2247,
                                Message = m]L;+xhWG6&scmB1~n^M
A:
                 Layer 5 to 4
A:
     19889.3561,
                                Message = nopqrstuvwxyz{n}~!#$
                 Layer 5 to 4
A:
     19894.0152,
                                Message = 0$6I[n#5HZm!4GYo~3FX
     19900.0741,
                 Layer 5 to 4
                                Message = p6Z~EixSw=b(Lp6ZpEix
Α:
     19912.3836,
                 Layer 5 to 4
                               Message = dI~V.d;qI~V.2;qI~q.d
A:
                 Layer 5 to 4
A:
     19917.5125,
                               Message = rfE.u H1xbK4{e37~hr:
     19918.3331,
                 Layer 5 to 4
                               Message = snid YTOJE?:50+&~yts
                 Layer 5 to 4
     19930.6857,
A:
                               Message = t # x; HTamy (4AMYfr~-9F
     19941.3508,
                 Layer 5 to 4
                                Message = uuSq10m-Ki)Ge%Ca~>]z
A:
                 Layer 5 to 4
                                Message = vHvIxJyKzL\{M|N\}O\sim P!Q
A:
     19949.1757,
     19962.6534,
                 Layer 5 to 4
                                Message = wZ=wbE(iLxpS6wZ=~bE(
A:
A:
     19962.6673,
                 Layer 5 to 4
                                Message = dmbVx?4) {peY2C7, ~sh]
     19976.4354, Layer 5 to 4
A:
                                Message = y!(.4yAGMSY`flrx~'-3
A:
     19995.4600, Layer 5 to 4
                                Message = z4Ld{5ze|6Nf}70q~8Ph
A:
     20002.3981, Layer 5 to 4
                                Message = {fp;e0Y{NwCl7a3U~Js>
A:
     20011.6106, Layer 5 to 4
                                Message = |Y6qN+fC|Z7rO,qD\sim[8s]
                                Message = }lZI7&raO},xgUD2~m[J
     20025.3997,
                 Layer 5 to 4
A:
     20034.2139, Layer 5 to 4
                                Α:
                 Layer 5 to 4
     20034.5241,
                                Message = !3EVhy->Pbs'2J[m~2DU
     20049.0731,
                 Layer 5 to 4
                                Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
A:
                               Message = $X$d:oFzQ(]3h>sJ~U,a
     20052.8959,
                 Layer 5 to 4
A:
   236583.9545,
                 Layer 4 to 5 Message = !fEVhy->Pbs'2J3m~2DU
B:
    558670.2995,
                 Layer 4 to 5 Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
   807760.6719, Layer 4 to 5 Message = $X$d:oFzQ(]3h>sJ~U,a
В:
    1537448.6006, Layer 4 to 5 Message = %kS%$jR:#iQ9!hP8~gO7
    2586779.3079, Layer 4 to 5 Message = &}wq&e XRLF?93-'~xrl
B:
                  Layer 4 to 5 Message = '2=IT'kv$x:FQ]hs~,7C
B:
    4067148.5052,
    4412710.5008,
                  Layer 4 to 5
                                Message = (Eb~=Z(6SpxLi(Eb~=Zw
B:
    4487257.8488,
                  Layer 4 to 5
                                Message = dW(V'U\&) %S$R2Q!P~O}N
    4910834.3861,
                  Layer 4 to 5 Message = *jL.nP2r*6vX:z]>~aC%
В:
В:
    5182433.8266,
                  Layer 4 to 5 Message = +fpdWK>2&+k RF3-~rfY
    6623832.4092,
                  Layer 4 to 5 Message = ,16;AFKPUZ,ejoty~&+0
B:
    7406152.0292,
                  Layer 4 to 5 Message = -DZq*AWn'=T-$:Qh~7Ne
                  Layer 4 to 5 Message = .V~Iq;d.V~Iq.d.V~Iq;
    7455668.1383,
B:
    7550730.1698,
                  Layer 4 to 5 Message = xiE~Z6pL(b=wSxiE~Z6p
В:
    9551621.1423,
                  Layer 4 to 5
                                 Message = d\{iVD1|jWE2\}2X03\sim1YG
B:
    9624673.7289,
                  Layer 4 to 5
                                Message = 10x.-,+*) ('&%$\$\$1~}|{
B:
   9975271.0204,
                  Layer 4 to 5 Message = 2CSdt'7HXiy, <M^n21BR
   10342478.1513, Layer 4 to 5 Message = 3Uw;^!Df*Ln2Tv:]~3e)
B:
   11871817.5675, Layer 4 to 5 Message = 4f=qGzP&Yxc8lB3K~T4^{\circ}
   12202909.7450, Layer 4 to 5 Message = 5zbI0u]D+pW>&kR9~fM5
B:
    12311531.9493, Layer 4 to 5 Message = 6x(\sim pibZSLE=6x(\sim pi
   13043185.9935, Layer 4 to 5 Message = d7LVaku!, 6AK2 = +5?
```

```
B: 13521840.0985, Layer 4 to 5 Message = 8T8.Jf$?[w5Qm+Gc~<Xt
                                    Layer 4 to 5 Message = 9g693a0^-Z*W'T$Q~N{K
В:
      14921728.9991,
                                    Layer 4 to 5
       14965277.3255,
                                                              Message = :yZ;: [<{ ]=|^>}_?~`A!
B:
      15794089.2439, Layer 4 to 5 Message = ;.~qd;I;.~qdVI;.~qdV
     16216213.0321, Layer 4 to 5 Message = <AEIMQ<Y^bfjnrvz~%)-
B:
B: 16398776.2220, Layer 4 to 5 Message = =fi \sim 6Lb = xEZp (=3i \sim 6Lb)
B:
     17117100.3152, Layer 4 to 5 Message = dfxV}Gn7>(Ov2g0W~Ho8
B: 17248175.2887, Layer 4 to 5 Message = ?xS.qBzU0?D|W2kF~Y4m
B:
     17339740.4293, Layer 4 to 5 Message = A-wdP<)s`LA%o[H4~kWD
      17413771.9865, Layer 4 to 5
                                                               Message = B?=;97531x-B)'%\#~|zx
B:
                                    Layer 4 to 5
В:
      19170745.3356,
                                                               Message = CRbq#2BQap!1CP`o~0?0
       19345797.1202, Layer 4 to 5
B:
                                                               Message = De(Ij-No2St7XD<^~Bc&</pre>
     19664818.6552, Layer 4 to 5
B:
                                                               Message = EwL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL) )))
B: 20089454.2083, Layer 4 to 5 Message = d,pV<#gM3w^D2nTF~eK1
B: 21002157.6798, Layer 4 to 5 Message = Gf6.&{skcZRJB93)Gvnf
B: 21103678.0295, Layer 4 to 5 Message = HQZdmv!+4=GPYclu~H3<
B: 22356446.3513, Layer 4 to 5 Message = Id~; Vq.Id~; Vq.Id~; Iq
      24130330.5910, Layer 4 to 5 Message = JvEq?l:g5b0]+W&R~MyJ
B:
       24442979.0552, Layer 4 to 5 Message = K+iI) gG'eE%cC#aA~ >|
B:
       24748556.6383, Layer 4 to 5 Message = LLx~pbSE6(wiZL=x~pbS
B:
      25481235.3441, Layer 4 to 5 Message = dPMVY] cfilo2ux{~$'*
      26747504.7128, Layer 4 to 5 Message = NcwNCWl#7Lau,AUj~5J
B:
      27266178.2332, Layer 4 to 5 Message = Ou=dORxAgxU{Dj2X~Gm5
В:
      27422820.4390, Layer 4 to 5 Message = Pfb;sP' 8pJ$[53G~X2j
B:
      27764363.6800, Layer 4 to 5 Message = Q<(q]HQ|hS>*s J5~jUA
      28537489.0005, Layer 4 to 5 Message = ROLIFC?R9630-*'$~{xu
В:
       29958794.8753, Layer 4 to 5 Message = Sbp~x=LZSw(6ESbp~x=L
B:
       30109831.0328, Layer 4 to 5
                                                              Message = dt6Vv8Xx:Tz<2|> ~Aa#
                                                               Message = U) Z. `3e8j=UCtHyM~R&W
B:
       30600927.9149, Layer 4 to 5
B:
       30903988.1069, Layer 4 to 5 Message = V; ~dI.qV; ~dV.qV; ~dI.
B: 31348067.1761, Layer 4 to 5 Message = WNE;2)}tkbXOW<3*~ulc
B: 31904283.1135, Layer 4 to 5 Message = Xaiqy$, 4 < EMU^Xnv^-) 19
      32066355.7936, Layer 4 to 5 Message = YfxIc|8R1(B[u1Ye~:Tn
B·
      32160890.8408, Layer 4 to 5 Message = Z(S\sim LwEp=i6bxZ(Z\sim LwEp=i6bxZ(
B:
       32425963.7198, Layer 4 to 5 Message = d:wV5rQ0mL+h2&cB[^<y
В:
       32584494.2291, Layer 4 to 5 Message = ]M=.|m^N>x}n O?0~] P
       33750416.3099, Layer 4 to 5 Message = ^{bdfhjlnprtvxz}
B:
      35015075.9671, Layer 4 to 5 Message = _r(;Ocv,?Sgz0DWk~4H_
35688225.7843, Layer 4 to 5 Message = `'Lq8^%Jo6[#Hm4Y~Fk2
В:
B:
      35851358.4517, Layer 4 to 5 Message = aapI!X1hAwP)`80H~W0g
B:
      35867360.2113, Layer 4 to 5 Message = bLb~iS=(pZExwbL6~iS=
      36342047.1157, Layer 4 to 5 Message = dfZcRNJFB=952-3%~zvr
       36409054.6845, Layer 4 to 5 Message = dq~.dIVdq~.;IVdq~.;I
B:
       36758692.1756, Layer 4 to 5
                                                               Message = e&Ed%ec$Cb#Ba!A`~? }
В:
       36904304.4097, Layer 4 to 5
                                                               Message = f8i;l>fBrEuHxK{N~Q$T
B:
       37049919.3391, Layer 4 to 5
                                                              Message = gKxqU9{gD(jN2tX<\sim cG+
B:
       37296948.4283, Layer 4 to 5 Message = h^SI>4}hi TJ?5+~tj`
      37669063.9916, Layer 4 to 5 Message = ipw~(x6=EiSZbipw~(x6
В:
      37858603.9164, Layer 4 to 5 Message = d%=Vo*C[txja24Mf~9Rk
      38130221.6050, Layer 4 to 5 Message = k7b.X%OyFp<k3^*T~KuB
     41720621.5384, Layer 4 to 5 Message = lf(dB)[9uS1ml)3C~]:v
B:
       41725143.3230, Layer 4 to 5
B:
                                                               Message = m]L;+xhWG6&scmB1~n^M
В:
       41815702.3523, Layer 4 to 5
                                                              Message = nopgrstuvwxyz{n}~!#$
В:
       41875713.2395, Layer 4 to 5
                                                              Message = 0$6I[n#5HZm!4GYo~3FX
В:
      41977230.7554, Layer 4 to 5 Message = p6Z~EixSw=b(Lp6ZpEix
      42109267.3841, Layer 4 to 5 Message = dI \sim V.d; qI \sim V.2; qI \sim q.d
B:
      42615905.4465, Layer 4 to 5 Message = r[E.u H1xbK4{eN7~hr:
B:
      42687439.6738, Layer 4 to 5 Message = snid YTOJE?:50+&~yts
B: 42803995.0433, Layer 4 to 5 Message = t#x; HTamy (4AMYfr~-9F
B: 43590687.9107, Layer 4 to 5 Message = uuSq10m-Ki)Ge%3a~>]z
```

```
B: 44097375.6802, Layer 4 to 5 Message = vHvIxJyKzL\{M|N\}O\sim P!Q
    45219706.8989, Layer 4 to 5 Message = wZ=wbE(iLxpS6wZ=~bE(
B:
    45590782.4329, Layer 4 to 5 Message = dmbVx?4) {peY2C7,~sh]
B:
    46670005.5417, Layer 4 to 5 Message = y!(.4yAGMSY`flrx~'-3
    46995056.1281, Layer 4 to 5 Message = z4Ld{5ze|6Nf}70g~8Ph
B:
   47292641.7422, Layer 4 to 5 Message = {Gp;e0Y{NwCl7a,U~Js>
B:
    47912819.2084, Layer 4 to 5 Message = |Y6qN+fC|Z7r0,gD^{2}|
B:
    48023875.7476, Layer 4 to 5 Message = }1ZI7&raO},xqUD2~m[J
B:
    48223431.1296, Layer 4 to 5 Message = ~fDUqx,=Oa~&7I31}1CT
    48307450.2727, Layer 4 to 5 Message = !3EVhy->Pbs'2J[m~2DU
B:
    48503518.7800, Layer 4 to 5 Message = ##i.Qt9]!Eh-Ps8[~Dg,
В:
    48674087.3526, Layer 4 to 5
                                       Message = $X$d:oFzQ(]3h>sJ~U,a
B:
    49200319.6344, Layer 4 to 5 Message = %kS%$jR:#iQ9!hP8~g07
B:
B: 50032455.3534, Layer 4 to 5 Message = '2=IT'kv$x:FQ]hs^{-},7C
B: 51194727.9155, Layer 4 to 5 Message = (Eb \sim = Z(6SpxLi(Eb \sim = Zw))
B: 51240245.5575, Layer 4 to 5 Message = dW(V'U\&)%S$R2Q!P~O}N
    51895417.7705, Layer 4 to 5 Message = *fL.nP2r*6vX:z3>~aC%
B:
    52123477.0692, Layer 4 to 5 Message = +|pdWK>2&+k RF9-~rfY
    53170833.5202, Layer 4 to 5 Message = ,16;AFKPUZ,ejoty~&+0
B:
    54097620.5415, Layer 4 to 5 Message = -DZq*AWn'=T-$:Qh~7Ne
   54262646.2158, Layer 4 to 5 Message = .V~Iq;d.V~Iq.d.V~Iq;
B:
   54302697.8034, Layer 4 to 5 Message = xiE~Z6pL(b=wSxiE~Z6p
В:
   54504269.1321, Layer 4 to 5 Message = d{iVD1|jWE2}2X03\sim1YG
   54631302.2552, Layer 4 to 5 Message = 10x.-,+*) ('&\$\$\$1\^\\|
   54884880.2522, Layer 4 to 5 Message = 2CSdt'7HXiy,<M^n21BR
В:
   56241178.4429, Layer 4 to 5 Message = 3fw;^!Df*Ln2Tv3]~3e)
B:
    56506255.4905, Layer 4 to 5 Message = 4h=qGzP&Yxc8lBuK~T4^
B:
    56635769.6224, Layer 4 to 5
                                       Message = 5zbI0u]D+pW>&kR9~fM5
B: 58619280.4745, Layer 4 to 5 Message = 6x(~wpibZSLE=6x(~wpi
B: 58763365.0999, Layer 4 to 5 Message = d7LVaku!, 6AK2 = +5?
B: 59419468.2024, Layer 4 to 5 Message = 8T8.Jf$?[w5Qm+Gc~<Xt
   59611586.5105, Layer 4 to 5 Message = 99693a0^-Z*W'T$Q~N{K}
B: 59791145.3697, Layer 4 to 5 Message = :yZ_{;:}[<{]=|^>} ?~`A!
B: 60665379.3264, Layer 4 to 5 Message = ;.~qd;I;.~qdVI;.~qdV
    61123507.6583, Layer 4 to 5 Message = <fEIMQ<Y^bfjnr3z~%)-
    61394041.9179, Layer 4 to 5 Message = =Si~6Lb=xEZp(=Si~6Lb
B:
B:
    61499116.0532, Layer 4 to 5 Message = dfxV}Gn7>(Ov2g0W~Ho8
B:
   61848757.4321, Layer 4 to 5 Message = ?xS.gBzU0?D|W2kF~Y4m
B: 61891278.6747, Layer 4 to 5 Message = A-wdP<)s`LA%o[H4~kWD
   62181363.8548, Layer 4 to 5 Message = B?=;97531x-B)'%#~|zx
B: 62742047.9411, Layer 4 to 5 Message = CRbg#2BQap!1CP`o~0?0
B: 63014142.9841, Layer 4 to 5 Message = De(Ij-No2St7XD<^~Bc&
    63188166.9091, Layer 4 to 5 63602253.4336, Layer 4 to 5
B:
                                        Message = EwL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL) )))
                                        Message = dfpV<#gM3w^D2n3F~eK1
B:
    64756413.8498, Layer 4 to 5
                                       Message = G>6.&{skcZRJB91)Gvnf
B: 64930495.9955, Layer 4 to 5 Message = HQZdmv!+4=GPYclu~H3<
B: 64975526.8390, Layer 4 to 5 Message = Id~; Vq.Id~; Vq.Id~; Iq
B: 65290116.8186, Layer 4 to 5 Message = JvEq?1:g5b0]+W&R~MyJ
B: 65700196.5107, Layer 4 to 5 Message = K+iI)gG'eE%cC#aA~ >|
B: 66301410.7331, Layer 4 to 5 Message = LLx~pbSE6(wiZL=x~pbS
    67481751.1336, Layer 4 to 5 Message = dPMVY] `cfilo2ux{~$'*
B:
    67990347.4123, Layer 4 to 5
                                       Message = NcwNCWl#7Lau,AUj~5J
    68174394.4157, Layer 4 to 5 Message = Of=dORxAgxU{Dj3X~Gm5
B:
    68217445.7635, Layer 4 to 5 Message = P*b;sP' 8pJ$[5mG~X2j
   68491027.3539, Layer 4 to 5 Message = Q<(q]HQ|hS>*s J5~jUA
B:
B: 68843141.4682, Layer 4 to 5 Message = ROLIFC?R9630-*'$~{xu
B: 69247690.6199, Layer 4 to 5 Message = Sbp~x=LZSw(6ESbp~x=L
B: 69775813.9120, Layer 4 to 5 Message = dt6Vv8Xx:Tz<2|> ~Aa#
B: 70090924.9309, Layer 4 to 5 Message = U)Z.`3e8j=UCtHyM~R&W
```

```
71308800.7190, Layer 4 to 5 Message = V; ~dI.qV; ~dV.qV; ~dI.
B:
    71794996.2545, Layer 4 to 5 Message = WNE;2)}tkbXOW<3*~ulc
В:
    72016616.0988, Layer 4 to 5
                                Message = Xfiqy$, 4 < EMU^X3v^2) 19
В:
B:
    72268680.4191, Layer 4 to 5 Message = YsxIc|8R1(B[u1Ye~:Tn
   72985294.0576, Layer 4 to 5 Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE)
B:
   73013808.6993, Layer 4 to 5 Message = d:wV5rQ0mL+h2&cB[^<y
B:
   73932984.9235, Layer 4 to 5 Message = ]M=.|m^N>xn O?0~]`P
В:
   74050554.7128, Layer 4 to 5 Message = ^`bdfhjlnprtvxz|~#^'
B:
   74539627.8643, Layer 4 to 5 Message = r(;Ocv,?Sgz0DWk~4H
                                 Message = \'Lq8^%Jo6[#Hm4Y~Fk2
   74897208.7558, Layer 4 to 5
B:
    75171780.3416, Layer 4 to 5
                                 Message = aapI!X1hAwP) `8oH~W0g
B:
    76382196.3550, Layer 4 to 5
                                Message = bfb~iS=(pZExwb36~iS=
B:
    77015360.9003, Layer 4 to 5 Message = d ZcRNJFB=952-)%~zvr
В:
B:
   77322954.9461, Layer 4 to 5 Message = dq~.dIVdq~.;IVdq~.;I
В:
   77941145.3153, Layer 4 to 5 Message = e&Ed%ec$Cb#Ba!A`~? }
B:
   78158216.2242, Layer 4 to 5 Message = f8i;1>fBrEuHxK\{N\sim Q\T
   78274266.2446, Layer 4 to 5 Message = gKxqU9{gD(jN2tX<~cG+
B:
B: 80371703.5898, Layer 4 to 5 Message = h^SI>4hi TJ?5+~tj
   80465715.1102, Layer 4 to 5 Message = ipw~(x6=EiSZbipw~(x6
B:
   81164307.7911, Layer 4 to 5 Message = d=Vo*C[txja24Mf~9Rk
B:
   81842449.8576, Layer 4 to 5 Message = kfb.X%OyFp<k3^3T~KuB
   82159502.9759, Layer 4 to 5 Message = 1J(dB)[9uS1ml)eC^{-}:v
B:
B: 82810284.5715, Layer 4 to 5 Message = m]L;+xhWG6&scmB1~n^M
   83438407.9158, Layer 4 to 5 Message = nopgrstuvwxyz\{n\}~!#$
В:
   84853198.5181, Layer 4 to 5 Message = 0.61[n#5HZm!4GYo~3FX]
B: 85191796.2110, Layer 4 to 5 Message = p6Z~EixSw=b(Lp6ZpEix
   87240743.6553, Layer 4 to 5 Message = dI \sim V.d; qI \sim V.2; qI \sim q.d
B:
   89312717.3771, Layer 4 to 5
                                Message = r[E.u H1xbK4{eN7~hr:
                                Message = snid_YTOJE?:50+&~yts
B:
   91289219.2853, Layer 4 to 5
B:
   91323749.3316, Layer 4 to 5 Message = tfx; HTamy (4AMY3r~-9F
B: 91552298.0549, Layer 4 to 5 Message = uuSq10m-Ki)Ge%Ca~>]z
B: 91637850.8928, Layer 4 to 5 Message = vHvIxJyKzL{M|N}0~P!Q
B: 91862361.7985, Layer 4 to 5 Message = wZ=wbE(iLxpS6wZ=~bE(
B: 91935385.1650, Layer 4 to 5 Message = dmbVx?4) {peY2C7,~sh]
   92347968.6653, Layer 4 to 5 Message = y!(.4yAGMSY`flrx~'-3
В:
   92762531.1086, Layer 4 to 5 Message = z4Ld{5ze|6Nf}70g~8Ph
   93108166.7433, Layer 4 to 5 Message = {Gp;e0Y{NwCl7a,U~Js>
B:
   93158184.3640, Layer 4 to 5 Message = |Y6qN+fC|Z7rO,gD^{-}[8s]
В:
B:
   93638287.4844, Layer 4 to 5 Message = }fZI7&raO},xgU32~m[J
   B:
   93864431.3906, Layer 4 to 5 Message = !3EVhy->Pbs'2J[m~2DU
B:
   94334027.0976, Layer 4 to 5 Message = ##i.Qt9]!Eh-Ps8[~Dq,
   94486051.0153, Layer 4 to 5 Message = $X$d:oFzQ(]3h>sJ~U,a
B:
   95664835.3295, Layer 4 to 5
                                 Message = %kS%$jR:#iQ9!hP8~gO7
В:
   95983442.5229, Layer 4 to 5
B:
                                 Message = & \ wq&e XRLF?93-'~xrl
B:
   98538985.7469, Layer 4 to 5
                                Message = '2=IT'kv$x:FQ]hs\sim,7C
B: 98691013.3881, Layer 4 to 5 Message = (Eb~=Z(6SpxLi(Eb~=Zw
B: 99065647.4141, Layer 4 to 5 Message = df(V'U&)%S$R2Q3P~O}N
B: 99143214.4274, Layer 4 to 5 Message = *jL.nP2r*6vX:z]>~aC%
B: 100470000.2574, Layer 4 to 5 Message = +|pdWK>2&+k RF9-~rfY
B: 100528538.9920, Layer 4 to 5 Message = ,16; AFKPUZ, ejoty~&+0
   100797120.3424, Layer 4 to 5 Message = -DZq*AWn'=T-$:Qh~7Ne
B:
   101766352.8939, Layer 4 to 5
                                 Message = .V~Iq;d.V~Iq.d.V~Iq;
   102532026.8390, Layer 4 to 5
                                 Message = xiE~Z6pL(b=wSxiE~Z6p
B:
   102705065.8719, Layer 4 to 5
                                 Message = d\{iVD1|jWE2\}2X03\sim1YG
B: 102998125.7790, Layer 4 to 5
                                  Message = 10x.-,+*) ('&%$\$1~}|{
B: 103274763.9044, Layer 4 to 5
                                  Message = 2fSdt'7HXiy, <M3n21BR</pre>
B: 103999482.0236, Layer 4 to 5
                                  Message = 3Uw;^!Df*Ln2Tv:]~3e)
B: 104104523.6055, Layer 4 to 5
                                 Message = 4h=qGzP&Yxc8lBuK~T4^
B: 104234085.3184, Layer 4 to 5 Message = 5zbI0u]D+pW>&kR9~fM5
```

```
B: 104586151.6517, Layer 4 to 5 Message = 6x(\sim pibZSLE=6x(\sim pi
                                          Message = d7LVaku!, 6AK2 jt~+5?
    104764692.1803, Layer 4 to 5
    107352459.3537, Layer 4 to 5
                                          Message = 8T8.Jf$?[w5Qm+Gc~<Xt
B:
                                          Message = 9g693a0^-Z*W'T$Q~N\{K
    108239901.9865, Layer 4 to 5
B: 109799862.3151, Layer 4 to 5
                                          Message = :yZ;:[<{]=|^>} ?~`A!
B: 111824014.8030, Layer 4 to 5
                                          Message = ;f~qd;I;.~qdVI3.~qdV
B: 112410657.8743, Layer 4 to 5
                                          Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
                                          Message = =Si~6Lb=xEZp(=Si~6Lb
B: 113287823.7626, Layer 4 to 5
B: 113765967.1932, Layer 4 to 5
                                          Message = dfxVGn7>(Ov2g0W~Ho8
    114539645.1206, Layer 4 to 5
                                          Message = ?xS.gBzU0?D|W2kF~Y4m
В:
                         Layer 4 to 5
                                          Message = A-wdP<)s`LA%o[H4~kWD</pre>
    115667383.4144,
                       Layer 4 to 5
                                          Message = B?=;97531x-B)'%\#\sim|zx
B:
    115719888.8679,
B: 116006982.5634,
                       Layer 4 to 5
                                          Message = CRbq#2BQap!1CP`o~0?0
B: 116169519.0602, Layer 4 to 5
                                          Message = De(Ij-No2St7XD<^~Bc&</pre>
B: 117704363.3748, Layer 4 to 5
                                          Message = EfL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL) )))
B: 118018961.5507, Layer 4 to 5
                                          Message = d,pV<\#gM3w^D2nTF\sim eK1
B: 118460036.5773, Layer 4 to 5
                                          Message = G>6.&(skcZRJB91)Gvnf
B: 120164541.1755, Layer 4 to 5
                                          Message = HQZdmv!+4=GPYclu~H3<</pre>
    120416628.3804, Layer 4 to 5
                                          Message = Id~; Vq.Id~; Vq.Id~; Iq
    121663897.9169, Layer 4 to 5
                                          Message = JvEq?l:q5b0]+W&R~MyJ
   122338059.0060, Layer 4 to 5
                                          Message = K+iI)gG'eE%cC#aA~ >|
B:
B: 124118366.8247, Layer 4 to 5
                                          Message = LLx~pbSE6(wiZL=x~pbS
                                          Message = dPMVY]`cfilo2ux{~$'*
B: 124418950.8286, Layer 4 to 5
B: 125397807.8720, Layer 4 to 5
                                          Message = NfwNCWl#7Lau,A3j~5J
                                          Message = Ou=dORxAgxU{Dj2X~Gm5
B: 125709890.2144, Layer 4 to 5
                                          Message = P*b;sP' 8pJ$[5mG~X2j
B: 125726401.8359, Layer 4 to 5
    126318546.4591, Layer 4 to 5
В:
                                          Message = Q<(q]HQ|hS>*s J5~jUA
    126369059.2140, Layer 4 to 5
                                          Message = ROLIFC?R9630-*'$~{xu
                       Layer 4 to 5
B:
    127501387.7401,
                                          Message = Sbp~x=LZSw(6ESbp~x=L
                                          Message = dt6Vv8Xx:Tz<2|> ~Aa#
                       Layer 4 to 5
B: 127807441.3837,
B: 128572586.8094, Layer 4 to 5
                                          Message = U) Z. `3e8j=UCtHyM~R&W
B: 129936082.8345, Layer 4 to 5
                                          Message = V;~dI.qV;~dV.qV;~dI.
                                          Message = WfE; 2) } tkbXOW<3*~ulc</pre>
B: 130842719.5286, Layer 4 to 5
B: 131770528.7339, Layer 4 to 5
                                          Message = Xaiqy$,4<EMU^Xnv~)19</pre>
   132702237.9759, Layer 4 to 5
                                          Message = YsxIc|8Rl(B[u1Ye~:Tn
    133497410.7969, Layer 4 to 5
                                          Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE
    133628023.2264, Layer 4 to 5
B:
                                          Message = d:wV5rQ0mL+h2&cB[^<y</pre>
   133925161.1976, Layer 4 to 5
                                          Message = ]M=.|m^N>x}n_0?0~] P
В:
                                          Message = ^`bdfhjlnprtvxz|~#^'
B: 134128692.4285, Layer 4 to 5
B: 134900920.1976, Layer 4 to 5
                                          Message =
                                                       r(;Ocv,?Sgz0DWk~4H
                                          B: 135281053.8561, Layer 4 to 5
B: 136556026.3413, Layer 4 to 5
                                          Message = aapI!X1hAwP) `83H~W0g
   137468297.0670, Layer 4 to 5
                                          Message = bLb~iS=(pZExwbL6~iS=
B:
    137503813.6802, Layer 4 to 5
                                          Message = d ZcRNJFB=952-)%~zvr
    137643911.6547, Layer 4 to 5
                                          Message = dq~.dIVdq~.;IVdq~.;I
B:
    137891996.2765,
                       Layer 4 to 5
                                          Message = e&Ed%ec$Cb#Ba!A`~? }
B: 138310128.3536, Layer 4 to 5
                                          Message = f8i;l>fBrEuHxK{N~Q$T
B: 139514958.5028, Layer 4 to 5
                                          Message = gKxqU9\{gD(jN2tX<\sim cG+
B: 139977092.7732, Layer 4 to 5
                                          Message = h^SI>4*hi TJ?5+~tj`
B: 141138426.3823, Layer 4 to 5
                                          Message = ipw \sim (x6 = EiSZbipw \sim (x6)
B: 141285949.7520, Layer 4 to 5
                                          Message = df=Vo*C[txja243f\sim9Rk]
    141466567.2868, Layer 4 to 5
                                          Message = k7b.X\%OyFp< k3^*T\sim KuB
    141580098.2125, Layer 4 to 5
                                          Message = lJ(dB)[9uS1ml)eC~]:v
B:
    141906211.3573, Layer 4 to 5
                                          Message = m]L;+xhWG6&scmB1~n^M
B:
   143010525.4151, Layer 4 to 5
                                          Message = nopqrstuvwxyz{n}~!#$
B: 143173622.5863, Layer 4 to 5
                                          Message = 0$6I[n#5HZm!4GYo~3FX
B: 144294315.6227, Layer 4 to 5
                                          Message = p6Z~EixSw=b(Lp6ZpEix
B: 144555391.2874, Layer 4 to 5
                                          Message = dI~V.d;qI~V.2;qI~q.d
B: 144771491.3941, Layer 4 to 5
                                          Message = r[E.u H1xbK4{eN7~hr}:
B: 145294054.9301, Layer 4 to 5 Message = sfid YTOJE?:503&~yts
```

```
B: 145427150.5542, Layer 4 to 5 Message = t # x; HTamy (4AMYfr~-9F
   146626458.8984, Layer 4 to 5
                                 Message = uuSq10m-Ki)Ge%Ca~>]z
   147144103.1144, Layer 4 to 5
                                 Message = vHvIxJyKzL\{M|N\}O\sim P!Q
B:
   147435255.3319, Layer 4 to 5
                                 Message = wZ=wbE(iLxpS6wZ=~bE(
B: 148847210.4280, Layer 4 to 5
                                 Message = dmbVx?4) {peY2C7, ~sh]
B: 149357831.0989, Layer 4 to 5
                                 Message = y!(.4yAGMSY`flrx~'-3
B: 149561928.6522, Layer 4 to 5
                                 Message = z4Ld{5ze|6Nf}70g~8Ph
B: 150547777.2851, Layer 4 to 5
                                 Message = {Gp;e0Y{NwCl7a,U~Js>
B: 150937845.9075, Layer 4 to 5
                                 Message = |f6qN+fC|Z7rO,3D\sim[8s]
   152034652.8187, Layer 4 to 5
                                 Message = }1ZI7&raO},xgUD2~m[J
B:
                                 Layer 4 to 5
   153321081.4296,
                                 Message = !3EVhy->Pbs'2J[m~2DU
   154070242.1977, Layer 4 to 5
B:
B: 154459318.5290,
                   Layer 4 to 5
                                 Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
B: 155023509.8963, Layer 4 to 5
                                 Message = X$d:oFzQ(]3h>sJ~U,a
B: 155144564.4428, Layer 4 to 5
                                 Message = %kS%jR:#iQ9!hP8~g07
B: 155414081.9191, Layer 4 to 5
                                 B: 155861637.8454, Layer 4 to 5
                                 Message = '2=IT'kv$x:FQ]hs\sim,7C
B: 156155704.8790, Layer 4 to 5
                                 Message = (fb~=Z(6SpxLi(3b~=Zw
   156428309.1845, Layer 4 to 5
                                 Message = dW(V'U\&)%S$R2Q!P~O}N
   156518346.5821, Layer 4 to 5
                                 Message = *jL.nP2r*6vX:z]>~aC%
   158862390.2419, Layer 4 to 5
                                 Message = +|pdWK>2&+k RF9-~rfY
B:
B: 158882917.7462, Layer 4 to 5
                                 Message = ,16;AFKPUZ,ejoty~&+0
                                 Message = -DZq*AWn'=T-$:Qh~7Ne
B: 159093484.9374, Layer 4 to 5
B: 160791476.1455, Layer 4 to 5
                                 Message = .V~Iq;d.V~Iq.d.V~Iq;
B: 160957017.0884, Layer 4 to 5
                                 Message = xiE~Z6pL(b=wSxiE~Z6p
B: 162007288.4677, Layer 4 to 5
                                 Message = d{iVD1|jWE2}2X03\sim1YG
   162578435.9890, Layer 4 to 5
                                 Message = 1fx.-,+*)('&%$31~)|{
В:
   162661007.1703, Layer 4 to 5
                                 Message = 2CSdt'7HXiy, <M^n21BR</pre>
B:
   163009069.0163, Layer 4 to 5
                                 Message = 3Uw;^!Df*Ln2Tv:]~3e)
                                 Message = 4h=qGzP&Yxc8lBuK~T4^
B: 164552442.6029, Layer 4 to 5
B: 165343208.4340, Layer 4 to 5
                                 Message = 5zbI0u]D+pW>&kR9~fM5
B: 165734820.2810, Layer 4 to 5
                                 Message = 6x(~wpibZSLE=6x(~wpi
                                 Message = d7LVaku!, 6AK2`jt~+5?
B: 165875850.7550, Layer 4 to 5
B: 166088906.8340, Layer 4 to 5
                                 Message = 8T8.Jf?[w5Qm+Gc~<Xt
   167098174.0717, Layer 4 to 5
                                 Message = 9g693a0^-Z*W'T$Q~N\{K
   167422280.5244, Layer 4 to 5
                                 Message = :fZ;:[<{]=|^>}3?~^A!
   167871397.6446, Layer 4 to 5
B:
                                 Message = ;.~qd;I;.~qdVI;.~qdV
   167938912.0758, Layer 4 to 5
                                 Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
В:
B: 168399483.8232, Layer 4 to 5
                                 Message = =Si~6Lb=xEZp(=Si~6Lb
B: 168499005.7834, Layer 4 to 5
                                 Message = dfxV}Gn7>(Ov2g0W~Ho8
B: 168566022.2234, Layer 4 to 5
                                 Message = ?xS.gBzU0?D|W2kF~Y4m
                                 Message = A-wdP<)s`LA%o[H4~kWD</pre>
B: 169079142.8983, Layer 4 to 5
   169287752.1579, Layer 4 to 5
                                 Message = B?=;97531x-B)'%\#\sim|zx
B:
   170157918.1086, Layer 4 to 5
                                 Message = CRbq#2BQap!1CP`o~0?0
   170634515.4881, Layer 4 to 5
                                 Message = Df(Ij-No2St7XD3^~Bc&
B:
   170759076.1493,
                   Layer 4 to 5
                                 Message = EwL~S(Zxb6i=pEEL~S(Z
B: 172039413.8370, Layer 4 to 5
                                 Message = d,pV<#gM3w^D2nTF~eK1</pre>
B: 172442004.2261, Layer 4 to 5
                                 Message = G>6.&(skcZRJB91)Gvnf
B: 173310126.4429, Layer 4 to 5
                                 Message = HQZdmv!+4=GPYclu~H3<
B: 173848692.0619, Layer 4 to 5
                                 Message = Id~; Vq.Id~; Vq.Id~; Iq
B: 173975735.9370, Layer 4 to 5
                                 Message = JvEq?1:g5b0]+W&R~MyJ
   175046132.4069, Layer 4 to 5
                                 Message = K+iI)gG'eE%cC#aA~ >|
   175101642.8801, Layer 4 to 5
                                 Message = LLx~pbSE6(wiZL=x~pbS
B:
   175671840.3374, Layer 4 to 5
                                 Message = dfMVY] `cfilo2u3{~$'*
                                 Message = NcwNCWl#7Lau,AUj~5J
B:
   176109499.7314, Layer 4 to 5
B: 176460050.7291, Layer 4 to 5
                                 Message = Ou=dORxAgxU{Dj2X~Gm5
B: 177392697.2002, Layer 4 to 5
                                 Message = P*b;sP' 8pJ$[5mG~X2j
B: 178374411.9853, Layer 4 to 5
                                 Message = Q<(q]HQ|hS>*s J5~jUA
B: 178631504.6624, Layer 4 to 5
                                 Message = ROLIFC?R9630-*'$~{xu
B: 178932628.1204, Layer 4 to 5 Message = Sbp~x=LZSw(6ESbp~x=L
```

```
B: 179166684.7266, Layer 4 to 5 Message = dt6Vv8Xx:Tz<2|> ~Aa#
                                  Message = U)Z.~3e8j=UCtHyM~R&W
В:
   180474963.0284, Layer 4 to 5
   181611285.8899, Layer 4 to 5
                                  Message = Vf~dI.qV;~dV.q3;~dI.
                                  Message = WNE;2) } tkbXOW<3*~ulc</pre>
B:
   181907841.4617, Layer 4 to 5
B: 182254916.4064, Layer 4 to 5
                                  Message = Xaiqy$, 4<EMU^Xnv~)19</pre>
B: 182533503.5091, Layer 4 to 5
                                  Message = YsxIc|8Rl(B[u1Ye~:Tn
B: 183075663.7187, Layer 4 to 5
                                  Message = Z(S~LwEp=i6bxZ(Z~LwE
                                  Message = d:wV5rQ0mL+h2&cB[^<y</pre>
B: 183125773.4718, Layer 4 to 5
B: 183441294.0813, Layer 4 to 5
                                  Message = ]M=.|m^N>x}n O?0~]`P
   183711399.1205, Layer 4 to 5
                                  Message = ^`bdfhjlnprtvxz|~#^'
В:
                                  Message = _r(;Ocv,?Sgz0DWk~4H_
Message = `fLq8^%Jo6[#Hm3Y~Fk2
   185983421.5693, Layer 4 to 5
B:
   186408065.0751, Layer 4 to 5
B:
B: 186691109.5598, Layer 4 to 5
                                  Message = aapI!X1hAwP) `8oH~W0g
B: 187084720.0248, Layer 4 to 5
                                  Message = bLb~iS=(pZExwbL6~iS=
B: 187451814.3741, Layer 4 to 5
                                  Message = d ZcRNJFB=952-)%~zvr
                                  Message = dq~.dIVdq~.;IVdq~.;I
B: 188259461.4522, Layer 4 to 5
B: 188529988.3107, Layer 4 to 5
                                  Message = e&Ed%ec$Cb#Ba!A`~? }
B: 189171170.6722, Layer 4 to 5
                                  Message = f8i;1>fBrEuHxK{N\sim Q$T}
   189428309.7581, Layer 4 to 5
                                  Message = gKxqU9\{gD(jN2tX<\sim cG+
   189768440.0805, Layer 4 to 5
                                  Message = h^SI>4*hi TJ?5+~tj
B:
   190236591.0290, Layer 4 to 5
                                  Message = ifw \sim (x6 = EiSZbi3w \sim (x6)
B: 192491799.6368, Layer 4 to 5
                                  Message = d%=Vo*C[txja24Mf~9Rk
B: 192799920.3631, Layer 4 to 5
                                  Message = k7b.X\%OyFp< k3^*T\sim KuB
B: 193567603.7126, Layer 4 to 5
                                  Message = IJ(dB)[9uS1ml)eC~]:v
B: 193689127.5611, Layer 4 to 5
                                  Message = m]L;+xhWG6&scmB1~n^M
B: 195984728.4400, Layer 4 to 5
                                  Message = nopqrstuvwxyz{n}~!#$
   196975514.0150, Layer 4 to 5
B:
                                  Message = 0$6I[n#5HZm!4GYo~3FX
   198688514.3643, Layer 4 to 5
                                  Message = p6Z~EixSw=b(Lp6ZpEix
B:
   198837060.6127, Layer 4 to 5
                                  Message = dI~V.d;qI~V.2;qI~q.d
B: 198858075.8632, Layer 4 to 5
                                  Message = rfE.u H1xbK4{e37~hr:
                                  Message = snid YTOJE?:50+&~yts
B: 200604951.8678, Layer 4 to 5
B: 200789996.3270, Layer 4 to 5
                                  Message = t # x; HTamy (4AMYfr~-9F
                                  Message = uuSq10m-Ki)Ge%Ca~>]z
B: 200823005.6088, Layer 4 to 5
B: 201154135.6026, Layer 4 to 5
                                  Message = vHvIxJyKzL{M|N}O~P!Q
   201695300.2762, Layer 4 to 5
                                  Message = wZ=wbE(iLxpS6wZ=\sim bE(
В:
    202205914.7494, Layer 4 to 5
                                  Message = dmbVx?4) {peY2C7, ~sh]
   204365579.5658, Layer 4 to 5
                                  Message = y!(.4yAGMSY`flrx~'-3
B:
   204810201.0118, Layer 4 to 5
                                  Message = z4Ld{5ze|6Nf}70g~8Ph
В:
B: 204904781.9003, Layer 4 to 5
                                  Message = {fp;e0Y{NwCl7a3U~Js>
B: 205149371.4219, Layer 4 to 5
                                  Message = |Y6qN+fC|Z7rO, gD\sim[8s]
B: 205481964.3089, Layer 4 to 5
                                  Message = }lZI7&raO},xgUD2~m[J
   205625010.6653, Layer 4 to 5
                                  B:
                                  Message = !3EVhy->Pbs'2J[m~2DU
B:
   206864951.3341, Layer 4 to 5
    208109605.8728, Layer 4 to 5
                                  Message = \#\#i.Qt9]!Eh-Ps8[~Dq,
В:
    208140623.5804, Layer 4 to 5
                                  Message = X$d:oFzQ(]3h>sJ~U,a
B:
    208616661.3442, Layer 4 to 5
                                  Message = %kS%jR:\#iQ9!hP8~gO7
                                  Message = &}wq&e XRLF?93-'~xrl
B: 209071799.7730, Layer 4 to 5
                                  Message = 'f=IT'kv$x:FQ]3s\sim,7C
B: 209192854.4117, Layer 4 to 5
B: 209425920.8092, Layer 4 to 5
                                  Message = (Eb \sim = Z (6SpxLi (Eb \sim = Zw))
                                  Message = dW(V'U\&)%S$R2Q!P~O}N
B: 209536448.6547, Layer 4 to 5
    210440339.6607, Layer 4 to 5
                                  Message = *jL.nP2r*6vX:z]>~aC%
В:
    210750893.7587, Layer 4 to 5
                                  Message = +|pdWK>2&+k RF9-~rfY
B:
    210906963.3952, Layer 4 to 5
                                  Message = ,16;AFKPUZ,ejoty~&+0
В:
   211769156.5473, Layer 4 to 5
                                  Message = -DZq*AWn'=T-$:Qh~7Ne
B:
   212460375.9739, Layer 4 to 5
                                  Message = .V~Iq;d.V~Iq.d.V~Iq;
B: 212890956.2777, Layer 4 to 5
                                  Message = xiE~Z6pL(b=wSxiE~Z6p
B: 213383632.3878, Layer 4 to 5
                                  Message = dfiVD1|jWE2}2X03~1YG
   213788223.7769, Layer 4 to 5
                                  Message = 10x.-,+*) ('&%$\$1~}|{
   214358381.3835, Layer 4 to 5
                                  Message = 2CSdt'7HXiy, <M^n21BR</pre>
B:
B: 215124123.0667, Layer 4 to 5
                                  Message = 3Uw;^!Df*Ln2Tv:]~3e)
```

```
B:
    215736837.2206, Layer 4 to 5 Message = 4h=qGzP&Yxc8lBuK~T4^
В:
    216179479.9831, Layer 4 to 5
                                   Message = 5zbI0u]D+pW>&kR9~fM5
                    Layer 4 to 5
    216617102.7917,
                                   Message = 6x(~wpibZSLE=6x(~wpi
В:
B:
    216707629.6449, Layer 4 to 5
                                   Message = d7LVaku!,6AK2`jt~+5?
   216983270.2438, Layer 4 to 5
                                   Message = 8T8.Jf$?[w5Qm+Gc~<Xt
B:
B: 217367381.6060, Layer 4 to 5
                                   Message = 9f693a0^-Z*W'T3Q~N\{K
   217804045.1703, Layer 4 to 5
                                   Message = :yZ;:[<{]=|^>} ?~`A!
   217922071.2824, Layer 4 to 5
                                   Message = ;.~qd;I;.~qdVI;.~qdV
                                   Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
B:
    218007124.4569, Layer 4 to 5
                     Layer 4 to 5
                                   Message = =Si~6Lb=xEZp(=Si~6Lb
    218540311.3969,
В:
                     Layer 4 to 5
    219591152.2585,
                                   Message = dfxV}Gn7>(Ov2g0W~Ho8
                    Layer 4 to 5
                                   Message = ?xS.gBzU0?D|W2kF~Y4m
    220912457.4825,
В:
B:
    221302089.8110,
                    Layer 4 to 5
                                   Message = A-wdP<)s`LA%o[H4~kWD</pre>
B: 221799300.4514, Layer 4 to 5
                                   Message = B?=;97531x-B)'% * ~|zx
B: 222002395.4439, Layer 4 to 5
                                   Message = Cfbq#2BQap!1CP3o~0?0
                                   Message = De(Ij-No2St7XD<^~Bc&</pre>
B: 222833206.3630, Layer 4 to 5
    223886922.6160, Layer 4 to 5
                                   Message = EwL~S(Zxb6i=pEEL~S(Z
B:
    224490033.1483, Layer 4 to 5
                                   Message = d,pV<\#gM3w^D2nTF\sim eK1
В:
    224569548.9705, Layer 4 to 5
B:
                                   Message = G>6.&(skcZRJB91)Gvnf
    224597064.9603, Layer 4 to 5
                                   Message = HQZdmv!+4=GPYclu~H3<</pre>
   224758110.9217, Layer 4 to 5
                                   Message = Id~; Vq.Id~; Vq.Id~; Iq
B:
   224956703.4550, Layer 4 to 5
                                   Message = JvEq?l:g5b0]+W&R~MyJ
B:
B: 225546834.2668, Layer 4 to 5
                                   Message = K+iI)gG'eE%cC#aA~ >|
   226312615.9377, Layer 4 to 5
                                   Message = LLx~pbSE6(wiZL3x~pbS
В:
   226448164.1975, Layer 4 to 5
                                   Message = dPMVY] `cfilo2ux{~$'*
B:
   226557184.3225, Layer 4 to 5
                                   Message = NcwNCWl#7Lau,AUj~5J
    226714721.3639, Layer 4 to 5
В:
                                   Message = Ou=dORxAgxU{Dj2X~Gm5
    226871291.2815, Layer 4 to 5
                                   Message = P*b;sP' 8pJ$[5mG~X2j
B:
    227691598.0548,
                    Layer 4 to 5
                                   Message = Q<(q]HQ|hS>*s J5~jUA
                                   Message = ROLIFC?R9630-\overline{*}'$~{xu
B:
    227995174.7481, Layer 4 to 5
B: 228131193.5116, Layer 4 to 5
                                   Message = Sbp \sim x = LZSw (6ESbp \sim x = L
B: 228436298.1194, Layer 4 to 5
                                   Message = dt6Vv8Xx:Tz<2|> ~Aa#
                                   Message = UfZ. `3e8j=UCtH3M~R&W
B: 228512834.1906, Layer 4 to 5
    228926464.7567, Layer 4 to 5
                                   Message = V;~dI.qV;~dV.qV;~dI.
B:
    229778251.2343, Layer 4 to 5
                                   Message = WNE;2) } tkbXOW<3*~ulc</pre>
В:
    231060164.3526, Layer 4 to 5
                                   Message = Xaiqy$, 4<EMU^Xnv~)19</pre>
B:
    231186192.5720, Layer 4 to 5
                                   Message = YsxIc | 8Rl (B[u1Ye~:Tn
                                   Message = Z(S~LwEp=i6bxZ(Z~LwE
   231974960.0784, Layer 4 to 5
В:
B: 232074018.8674, Layer 4 to 5
                                   Message = d:wV5rQ0mL+h2&cB[^<y</pre>
B: 232206573.8762, Layer 4 to 5
                                   Message = ]M=.|m^N>x}n O?0~]`P
   233105880.7410, Layer 4 to 5
                                   Message = ^`bdfhjlnprtvxz|~#^'
   233789048.8513, Layer 4 to 5
                                   Message = f(;Ocv,?Sgz0D3k~4H
                                   Message = \ \'Lq8^\%Jo6[\#Hm4Y~Fk2
B:
    234293126.4235, Layer 4 to 5
                     Layer 4 to 5
    235322489.7599,
                                   Message = aapI!X1hAwP) `8oH~W0g
    235368009.3146,
                    Layer 4 to 5
                                   Message = bLb~iS=(pZExwbL6~iS=
B:
    236444313.1611,
                    Layer 4 to 5
                                   Message = d_ZcRNJFB=952-)%~zvr
B:
    236697942.3240,
                    Layer 4 to 5
                                   Message = dq~.dIVdq~.;IVdq~.;I
В:
    237255151.6015, Layer 4 to 5
                                   Message = e&Ed%ec$Cb#Ba!A`~? }
    238108796.1785, Layer 4 to 5
                                   Message = f8i;l>fBrEuHxK{N~Q$T
    238378404.1979, Layer 4 to 5
                                   Message = gKxqU9\{gD(jN2tX<\sim cG+
    239635280.4175, Layer 4 to 5
                                   Message = hfSI>4*}hi TJ?3+~tj`
В:
                    Layer 4 to 5
                                   Message = ipw \sim (x6 = EiSZbipw \sim (x6)
    241138130.4685,
    241795816.8460, Layer 4 to 5
                                   Message = d\%=Vo*C[txja24Mf~9Rk]
В:
    241908334.6915, Layer 4 to 5
                                   Message = k7b.X\%OyFp< k3^*T\sim KuB
B:
   242391945.8407, Layer 4 to 5
                                   Message = lJ(dB)[9uS1ml)eC~]:v
B:
   242479483.6817, Layer 4 to 5
                                   Message = m]L;+xhWG6&scmB1~n^M
   242891108.8985, Layer 4 to 5
                                    Message = nopqrstuvwxyz{n}~!#$
   243392771.8270, Layer 4 to 5
                                    Message = 0$6I[n#5HZm!4GYo~3FX
                                   \texttt{Message} = \texttt{p6Z} \sim \texttt{EixSw=b} (\texttt{Lp6ZpEix}
    243520834.9554, Layer 4 to 5
B:
    243961909.5598, Layer 4 to 5
                                   Message = df \sim V.d; qI \sim V.2; 3I \sim q.d
```

```
245691357.3432, Layer 4 to 5 Message = r[E.u H1xbK4{eN7}\sim hr:
В:
                                          Message = snid YTOJE?:50+&~yts
     245863875.0454, Layer 4 to 5
     246118436.0568, Layer 4 to 5
                                          Message = t # x; HTamy (4AMYfr~-9F
    246151953.3016, Layer 4 to 5
                                          Message = uuSq10m-Ki)Ge%Ca~>]z
   246814582.2656, Layer 4 to 5
                                          Message = vHvIxJyKzL\{M|N\}O\sim P!Q
B:
B: 246871124.4177, Layer 4 to 5
                                          Message = wZ=wbE(iLxpS6wZ=~bE(
   247464798.2638, Layer 4 to 5
                                          Message = dmbVx?4) {peY2C7, ~sh]
   248827710.9351, Layer 4 to 5
                                          Message = y!(.4yAGMSY`flrx~'-3
    248940732.1328, Layer 4 to 5
                                          Message = zfLd{5ze|6Nf}73g~8Ph
В:
    248969772.5128, Layer 4 to 5
                                          Message = {Gp;e0Y{NwCl7a,U~Js>
В:
    249531921.0144, Layer 4 to 5
                                          Message = |Y6qN+fC|Z7rO, qD\sim[8s]
     250198055.6639, Layer 4 to 5
B:
                                          Message = }lZI7&raO},xgUD2~m[J
                                          B:
    251130200.1382, Layer 4 to 5
B: 251252756.2791, Layer 4 to 5
                                          Message = !3EVhy->Pbs'2J[m~2DU
B: 251388273.6178, Layer 4 to 5
                                          Message = ##i.Qt9]!Eh-Ps8[~Dg,
B: 251873377.2014, Layer 4 to 5
                                          Message = $X$d:oFzQ(]3h>sJ~U,a
B: 251993917.5877, Layer 4 to 5
                                          Message = %kS%$jR:#iQ9!hP8~g07
    252216962.9742, Layer 4 to 5
                                          Message = &fwq&e XRLF?933'~xrl
В:
    252499095.9794, Layer 4 to 5
                                          Message = '2=IT'kv$x:FQ]hs\sim,7C
    252790682.3551, Layer 4 to 5
                                          Message = (Eb \sim = Z (6SpxLi (Eb \sim = Zw))
    252916731.9348, Layer 4 to 5
                                          Message = dW(V'U\&)%S$R2Q!P~O}N
B:
   253708445.2378, Layer 4 to 5
                                          Message = *jL.nP2r*6vX:z]>~aC%
B: 254155071.7739, Layer 4 to 5
                                          Message = +|pdWK>2&+k RF9-~rfY
   254295570.2013, Layer 4 to 5
                                          Message = ,16;AFKPUZ,ejoty~&+0
    257905993.4151, Layer 4 to 5
                                          Message = -DZq*AWn'=T-$:Qh~7Ne
B:
    259037789.7954, Layer 4 to 5
                                          Message = .V~Iq;d.V~Iq.d.V~Iq;
    259300390.1957, Layer 4 to 5
В:
                                          Message = xfE\sim Z6pL(b=wSx3E\sim Z6p
    259816105.2307, Layer 4 to 5
                                          Message = d\{iVD1|jWE2\}2X03\sim1YG
B:
    260718886.9053, Layer 4 to 5
                                          Message = 10x.-,+*) ('&%$\$1~}|{
B: 261153566.4896, Layer 4 to 5
                                          Message = 2CSdt'7HXiy, <M^n21BR</pre>
B: 261377148.8551, Layer 4 to 5
                                          Message = 3Uw;^!Df*Ln2Tv:]~3e)
B: 261493170.3860, Layer 4 to 5
                                          Message = 4h=qGzP&Yxc8lBuK~T4^
                                          Message = 5zbI0u]D+pW>&kR9~fM5
B: 261708726.0165, Layer 4 to 5
B: 261862821.5089, Layer 4 to 5
                                          Message = 6x(~wpibZSLE=6x(~wpi
    262874577.5851, Layer 4 to 5
                                          Message = d7LVaku!,6AK2`jt~+5?
В:
    263337747.3099, Layer 4 to 5
                                          Message = 8f8.Jf?[w5Qm+3c~<Xt
    263701332.7814, Layer 4 to 5
B:
                                          Message = 9g693a0^-Z*W'T$Q~N\{K
   264433134.0504, Layer 4 to 5
                                          Message = :yZ;:[<{]=|^>}_?~`A!
В:
B: 264782257.1147, Layer 4 to 5
                                          Message = ;.~qd;I;.~qdVI;.~qdV
   264886837.3743, Layer 4 to 5
                                          Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
   264930870.1321, Layer 4 to 5
                                          Message = =Si \sim 6Lb = xEZp (=Si \sim 6Lb
                                          Message = dfxV}Gn7>(Ov2g0W~Ho8
   265142000.2882, Layer 4 to 5
    266009274.6399, Layer 4 to 5
                                          Message = ?xS.gBzU0?D|W2kF~Y4m
B:
    266172330.5605, Layer 4 to 5
                                          Message = A-wdP<)s`LA%o[H4~kWD</pre>
     267310626.3225, Layer 4 to 5
                                          Message = Bf=;97531x-B)'3#~|zx
B:
    268267841.3517, Layer 4 to 5
                                          Message = CRbq#2BQap!1CP`o~0?0
B: 268430925.6746, Layer 4 to 5
                                          Message = De(Ij-No2St7XD<^~Bc&</pre>
B: 268902593.6722, Layer 4 to 5
                                          Message = EwL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL) ))
B: 269180143.4253, Layer 4 to 5
                                          Message = d,pV<#gM3w^D2nTF~eK1</pre>
B: 269471739.7846, Layer 4 to 5
                                          Message = G>6.&{skcZRJB91)Gvnf
    269575764.5308, Layer 4 to 5
                                          Message = HQZdmv!+4=GPYclu~H3<</pre>
В:
    269748326.9416, Layer 4 to 5
                                          Message = Id~; Vq.Id~; Vq.Id~; Iq
     270252957.1856, Layer 4 to 5
                                          Message = JvEq?l:q5b0]+W&R~MyJ
В:
    270784584.0295, Layer 4 to 5
                                          Message = KfiI)gG'eE%cC#3A~ >|
B:
   271299199.3531, Layer 4 to 5
                                          Message = LLx~pbSE6(wiZL=x~pbS
   272426365.6486, Layer 4 to 5
                                          Message = dPMVY] `cfilo2ux{~$'*
   272439880.4610, Layer 4 to 5
                                          Message = NcwNCWl#7Lau, AUj~5J
    273133030.9653, Layer 4 to 5
                                          Message = Ou=dORxAgxU{Dj2X~Gm5
B:
    273206560.5656, Layer 4 to 5
                                          Message = P*b;sP' 8pJ$[5mG~X2j
    274150272.1688, Layer 4 to 5 Message = Q<(q]HQ|hS>*s J5~jUA
```

```
275878161.3725, Layer 4 to 5 Message = ROLIFC?R9630-*'$~{xu
B:
В:
    276741892.2987, Layer 4 to 5
                                  Message = Sbp~x=LZSw(6ESbp~x=L
    276999526.6871, Layer 4 to 5
                                  Message = df6Vv8Xx:Tz<2|3 ~Aa#
В:
   277205559.0463, Layer 4 to 5
                                  Message = U) Z. `3e8j=UCtHyM~R&W
   278221799.6391, Layer 4 to 5
                                  Message = V;~dI.qV;~dV.qV;~dI.
B:
B: 278232806.7781, Layer 4 to 5
                                  Message = WNE;2) }tkbXOW<3*~ulc</pre>
B: 278671913.6566, Layer 4 to 5
                                  Message = Xaiqy$, 4<EMU^Xnv~)19</pre>
                                  Message = YsxIc|8Rl(B[u1Ye~:Tn
   278827481.6613, Layer 4 to 5
   279815273.0686, Layer 4 to 5
                                  Message = Z(S~LwEp=i6bxZ(Z~LwE
В:
   280598959.9313, Layer 4 to 5
                                  Message = d:wV5rQ0mL+h2&cB[^<y</pre>
B:
   281317580.2841, Layer 4 to 5
                                  Message = ]M=.|m^N>x}n O?0~]`P
    281397601.0140, Layer 4 to 5
                                  Message = ^fbdfhjlnprtvx3|~#^'
B:
                                  Message = _r(;Ocv,?Sgz0DWk~4H_
Message = `'Lq8^%Jo6[#Hm4Y~Fk2
B:
   281725173.2673, Layer 4 to 5
B: 281855713.4726, Layer 4 to 5
B: 281939228.5418, Layer 4 to 5
                                  Message = aapI!X1hAwP) `8oH~W0g
B: 282985266.6560, Layer 4 to 5
                                  Message = bLb~iS=(pZExwbL6~iS=
B: 283460861.7171, Layer 4 to 5
                                  Message = d ZcRNJFB=952-)%~zvr
   283610906.8158, Layer 4 to 5
                                  Message = dq~.dIVdq~.;IVdq~.;I
В:
   283660937.6904, Layer 4 to 5
                                  Message = e&Ed%ec$Cb#Ba!A`~? }
   284719762.2714, Layer 4 to 5
                                  Message = f8i;l>fBrEuHxK{N~Q$T
B:
   284777792.2661, Layer 4 to 5
                                  Message = gfxqU9{gD(jN2t3<\sim cG+
B: 286156651.0373, Layer 4 to 5
                                  Message = h^SI>4*hi TJ?5+~tj`
B: 287002852.5411, Layer 4 to 5
                                  Message = ipw~(x6=EiSZbipw~(x6
B: 287457984.0159, Layer 4 to 5
                                  Message = d\%=Vo*C[txja24Mf~9Rk]
   287787096.3312, Layer 4 to 5
                                  Message = k7b.X%OyFp<k3^*T~KuB
B:
   288128181.0222, Layer 4 to 5
                                  Message = lJ(dB)[9uS1ml)eC~]:v
   288306726.4102, Layer 4 to 5
В:
                                  Message = m]L;+xhWG6&scmB1~n^M
   291128910.2584, Layer 4 to 5
                                  Message = nopqrstuvwxyz{n}~!#$
B:
   291206439.3962, Layer 4 to 5
                                  Message = 0$6I[n#5HZm!4GYo~3FX
B: 291995605.7295, Layer 4 to 5
                                  Message = pfZ~EixSw=b(Lp3ZpEix
B: 292679827.6492, Layer 4 to 5
                                  Message = dI~V.d;qI~V.2;qI~q.d
B: 292950923.5385, Layer 4 to 5
                                  Message = r[E.u H1xbK4{eN7~hr}:
                                  Message = snid YTOJE?:50+&~yts
B: 293357610.1618, Layer 4 to 5
B: 293963392.6649, Layer 4 to 5
                                  Message = t # x; HTamy (4AMYfr~-9F
   294290495.2160, Layer 4 to 5
                                  Message = uuSq10m-Ki)Ge%Ca~>]z
   294417032.9798, Layer 4 to 5
                                  Message = vHvIxJyKzL\{M|N\}O\sim P!Q
B:
   295317300.3635, Layer 4 to 5
                                  Message = wZ=wbE(iLxpS6wZ=~bE(
   296538067.7609, Layer 4 to 5
                                  Message = dmbVx?4) {peY2C7, ~sh]
В:
                                  Message = yf(.4yAGMSY`f13x~'-3
B: 296889146.8555, Layer 4 to 5
B: 296973652.1206, Layer 4 to 5
                                  Message = z4Ld{5ze|6Nf}70g~8Ph
B: 297376752.8812, Layer 4 to 5
                                  Message = {Gp;e0Y{NwCl7a,U~Js>
   297622343.7199, Layer 4 to 5
                                  Message = |Y6qN+fC|Z7rO, qD\sim[8s]
   298282491.8700, Layer 4 to 5
B:
                                  Message = }lZI7&raO},xgUD2~m[J
   299351828.6392, Layer 4 to 5
                                  299575889.4011, Layer 4 to 5
                                  Message = !3EVhy->Pbs'2J[m~2DU
B:
   299832933.3064, Layer 4 to 5
                                  Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
B: 300747104.3912, Layer 4 to 5
                                  Message = $X$d:oFzQ(]3h>sJ~U,a
B: 301280192.6816, Layer 4 to 5
                                  Message = fS$jR:#iQ9!h38~g07
B: 301595298.6676, Layer 4 to 5
                                  Message = '2=IT'kv$x:FQ]hs\sim,7C
B: 301929385.8827, Layer 4 to 5
   302089933.1442, Layer 4 to 5
                                  Message = (Eb~=Z(6SpxLi(Eb~=Zw
В:
   302122477.2555, Layer 4 to 5
                                  Message = dW(V'U\&)%S$R2Q!P~O}N
    302410532.0258, Layer 4 to 5
                                  Message = *jL.nP2r*6vX:z]>~aC%
В:
   303276302.1366, Layer 4 to 5
                                  Message = +|pdWK>2&+k RF9-~rfY
B:
   303780889.5698, Layer 4 to 5
                                  Message = ,16;AFKPUZ,ejoty~&+0
B:
   304705661.2561, Layer 4 to 5
                                  Message = -DZq*AWn'=T-$:Qh~7Ne
   304796194.0438, Layer 4 to 5
                                  Message = .f \sim Iq; d.V \sim Iq.d3V \sim Iq;
   304844717.4405, Layer 4 to 5
                                  Message = xiE~Z6pL(b=wSxiE~Z6p
B: 305033296.5036, Layer 4 to 5
                                  Message = d\{iVD1|jWE2\}2X03\sim1YG
B: 305974024.8729, Layer 4 to 5
                                  Message = 10x.-,+*) ('&%$\$1~}|{
```

```
B:
    306394087.9729, Layer 4 to 5 Message = 2CSdt'7HXiy,<M^n21BR
В:
     306441139.3166, Layer 4 to 5
                                          Message = 3Uw;^!Df*Ln2Tv:]~3e)
     306588184.9928, Layer 4 to 5
                                          Message = 4h=qGzP&Yxc8lBuK~T4^
В:
    307501051.1852, Layer 4 to 5
                                          Message = 5zbI0u]D+pW>&kR9~fM5
   307599092.7889, Layer 4 to 5
                                          Message = 6x(~wpibZSLE=6x(~wpi
B:
B: 307875662.7784, Layer 4 to 5
                                          Message = d7LVaku!, 6AK2`3t\sim+5?
B:
   308387280.1020, Layer 4 to 5
                                          Message = 8T8.Jf?[w5Qm+Gc~<Xt
   309463027.3820, Layer 4 to 5
                                          Message = 9q693a0^-Z*W'T$Q~N\{K
B:
    309797111.2153, Layer 4 to 5
                                          Message = :yZ;:[<{]=|^>} ?~`A!
     310013629.5233, Layer 4 to 5
                                          Message = ;.~qd;I;.~qdVI;.~qdV
В:
     310476262.8205,
                         Layer 4 to 5
                                          Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
В:
     310808850.1180, Layer 4 to 5
                                          Message = =Si~6Lb=xEZp(=Si~6Lb
B:
B:
    311079998.3962,
                       Layer 4 to 5
                                          Message = dfxV}Gn7>(Ov2g0W~Ho8
B: 311178015.3513, Layer 4 to 5
                                          Message = ?xS.gBzU0?D|W2kF\sim Y4m
B: 312772865.4536, Layer 4 to 5
                                          Message = AfwdP<) s`LA%o[34~kWD
B: 313268463.9155, Layer 4 to 5
                                          Message = B?=;97531x-B)'%\#~|zx
B: 314690210.7878, Layer 4 to 5
                                          Message = CRbq#2BQap!1CP`o~0?0
    314798242.8100, Layer 4 to 5
                                          Message = De(Ij-No2St7XD<^~Bc&</pre>
В:
    315861044.5510, Layer 4 to 5
                                          Message = EwL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL) )))
B:
     316854775.8683, Layer 4 to 5
                                          Message = d_pV<\#gM3w^D2nTF\sim eK1
B:
    319214359.8897, Layer 4 to 5
                                          Message = G>6.&(skcZRJB91)Gvnf
   319242396.2108, Layer 4 to 5
                                          Message = HQZdmv!+4=GPYclu~H3<</pre>
B:
   319592010.6619, Layer 4 to 5
В:
                                          Message = Id~; Vq.Id~; Vq.Id~; Iq
   320113159.0037, Layer 4 to 5
                                          Message = JfEq?l:q5b0]+W3R~MyJ
В:
   320221181.8393, Layer 4 to 5
                                          Message = K+iI) gG'eE%cC#aA~ >|
B:
    320403752.9457, Layer 4 to 5
                                          Message = LLx~pbSE6(wiZL=x~pbS
    320728818.6990, Layer 4 to 5
                                          Message = dPMVY] `cfilo2ux{~$'*
В:
     320816842.3172, Layer 4 to 5
                                          Message = NcwNCWl#7Lau, AUj~5J
B:
     322186729.5903, Layer 4 to 5
                                          Message = Ou=dORxAgxU{Dj2X~Gm5
                                          Message = P*b;sP' 8pJ$[5mG~X2j
B: 322413768.8248, Layer 4 to 5
B: 322806455.3164, Layer 4 to 5
                                          Message = Q<(q]HQ|hS>*s J5~jUA
B: 323129550.3421, Layer 4 to 5
                                          Message = ROLIFC?R9630-*'$\sim{xu}
B: 323549667.7703, Layer 4 to 5
                                          Message = Sfp~x=LZSw(6ES3p~x=L
                                          Message = dt6Vv8Xx:Tz<2|> ~Aa#
   324720006.7860, Layer 4 to 5
B:
                                          Message = U) Z. `3e8j=UCtHyM~R&W
    325508709.1727, Layer 4 to 5
В:
     325862779.3956, Layer 4 to 5
                                          Message = V;~dI.qV;~dV.qV;~dI.
    326121374.3013, Layer 4 to 5
                                          Message = WNE;2) }tkbXOW<3*~ulc</pre>
B:
    326381418.2137, Layer 4 to 5
                                          Message = Xaiqy$, 4<EMU^Xnv~)19</pre>
В:
B:
   326584479.9078, Layer 4 to 5
                                          Message = YsxIc|8Rl(B[u1Ye~:Tn
B:
   326744508.8920, Layer 4 to 5
                                          Message = Z(S~LwEp=i6bxZ(Z~LwE
   326787524.0167, Layer 4 to 5
                                          Message = d:wV5rQ0mL+h2&cB[^<y</pre>
                                          Message = ]f=.|m^N>x}n O30~]`P
   327502717.3641, Layer 4 to 5
    327867797.1785, Layer 4 to 5
                                          Message = ^`bdfhjlnprtvxz|~#^'
B:
     328578423.7836, Layer 4 to 5
                                          Message = _r(;Ocv,?Sgz0DWk~4H_
Message = \rightarrow Lq8^%Jo6[#Hm4Y~Fk2
В:
     328735457.3968, Layer 4 to 5
B:
    328832517.7037, Layer 4 to 5
                                          Message = aapI!X1hAwP) `8oH~W0g
B: 329246582.3973, Layer 4 to 5
                                          Message = bLb~iS=(pZExwbL6~iS=
B: 330918919.1515, Layer 4 to 5
                                          Message = d ZcRNJFB=952-)%~zvr
   332822870.8089, Layer 4 to 5
                                          Message = dq~.dIVdq~.;IVdq~.;I
B: 332958412.8440, Layer 4 to 5
                                          Message = e&Ed%ec$Cb#Ba!A`~? }
    333584130.9761, Layer 4 to 5
                                          Message = ffi;l>fBrEuHxK3N~Q$T
В:
    333952258.9298, Layer 4 to 5
                                          Message = gKxqU9{gD(jN2tX<\sim cG+
B:
     334500924.8293, Layer 4 to 5
                                          Message = h^SI>4*\}hi TJ?5+~tj
В:
    334596426.3569, Layer 4 to 5
                                          Message = ipw \sim (x6 = EiSZbipw \sim (x6)
                                          Message = d%=Vo*C[txja24Mf~9Rk]
B:
    335064538.1555, Layer 4 to 5
B:
   335124543.9593, Layer 4 to 5
                                          Message = k7b.X\%OyFp< k3^*T~KuB
   335965305.1242, Layer 4 to 5
B:
                                           Message = lJ(dB)[9uS1ml)eC~]:v
   336546509.0476, Layer 4 to 5
                                           Message = m]L;+xhWG6&scmB1~n^M
    336875054.3434, Layer 4 to 5
                                          Message = nopqrstuvwxyz{n}~!#$
B:
    337041606.7986, Layer 4 to 5
                                          Message = of6I[n#5HZm!4G3o~3FX
```

```
B: 338129431.6383, Layer 4 to 5 Message = p6Z~EixSw=b(Lp6ZpEix
   338539649.4693, Layer 4 to 5 Message = dI~V.d;qI~V.2;qI~q.d
   339937176.8828, Layer 4 to 5
                                 Message = r[E.u H1xbK4{eN7~hr}:
   340186259.0145, Layer 4 to 5
                                 Message = snid_YTOJE?:50+&~yts
B:
B: 340429846.4135, Layer 4 to 5
                                 Message = t#x;HTamy(4AMYfr~-9F
B: 340690436.9144, Layer 4 to 5 Message = uuSq10m-Ki)Ge%Ca~>]z
  340902994.9475, Layer 4 to 5
                                 Message = vHvIxJyKzL{M|N}O~P!Q
                                 Message = wZ=wbE(iLxpS6wZ=~bE(
  341112587.2621, Layer 4 to 5
B:
   341175598.4517, Layer 4 to 5 Message = dfbVx?4) {peY2C3,~sh]
   341205110.0202, Layer 4 to 5
                                 Message = y!(.4yAGMSY`flrx~'-3
В:
   342072837.0907, Layer 4 to 5
                                 Message = z4Ld{5ze|6Nf}70g~8Ph
   342942619.7423, Layer 4 to 5
                                 Message = {Gp;e0Y{NwCl7a,U~Js>
B:
B: 344374996.8903, Layer 4 to 5
                                 Message = |Y6qN+fC|Z7rO, qD\sim[8s]
B: 344692594.2843, Layer 4 to 5
                                 Message = }1ZI7&raO},xgUD2~m[J
B: 346439088.1297, Layer 4 to 5
                                 B: 347505888.2438, Layer 4 to 5 Message = !3EVhy->Pbs'2J[m~2DU
B: 347700448.4231, Layer 4 to 5 Message = ##i.Qt9]!Eh-Ps8[~Dg,
   347865491.7387, Layer 4 to 5 Message = $f$d:oFzQ(]3h>3J~U,a
B:
   348704134.6424, Layer 4 to 5 Message = %kS%$jR:#iQ9!hP8~g07
   349270852.4398, Layer 4 to 5
                                 Message = &}wq&e XRLF?93-'~xrl
                                 Message = '2=IT'kv$x:FQ]hs~,7C
B:
   349323869.0086, Layer 4 to 5
B:
  349531954.0071, Layer 4 to 5 Message = (Eb~=Z(6SpxLi(Eb~=Zw
B: 350391670.6537, Layer 4 to 5 Message = dW(V'U\&)%S$R2Q!P~O}N
  352095965.8402, Layer 4 to 5 Message = *jL.nP2r*6vX:z]>~aC%
В:
   352493027.5359, Layer 4 to 5 Message = +|pdWK>2&+k RF9-~rfY
   352656068.1926, Layer 4 to 5 Message = ,16;AFKPUZ,ejoty~&+0
В:
   353199762.0903, Layer 4 to 5
                                 Message = -fZq*AWn'=T-$:3h~7Ne
В:
   353464416.8960, Layer 4 to 5
                                 Message = .V~Iq;d.V~Iq.d.V~Iq;
   353517434.1597, Layer 4 to 5
                                 Message = xiE~Z6pL(b=wSxiE~Z6p
B:
B: 353661989.9701, Layer 4 to 5
                                 Message = d{iVD1|jWE2}2X03\sim1YG
B: 353994576.6505, Layer 4 to 5
                                 Message = 10x.-,+*) ('&\$\$\$1~}|{
B: 355064333.8816, Layer 4 to 5 Message = 2CSdt'7HXiy,<M^n21BR
B: 356095074.1914, Layer 4 to 5 Message = 3Uw;^!Df*Ln2Tv:]~3e)
B: 356816816.3778, Layer 4 to 5 Message = 4h=qGzP&Yxc8lBuK~T4^
   356894826.0771, Layer 4 to 5 Message = 5zbI0u]D+pW>&kR9~fM5
В:
   357845539.1531, Layer 4 to 5 Message = 6f(~wpibZSLE=63(~wpi
   358043581.6899, Layer 4 to 5
B:
                                 Message = d7LVaku!, 6AK2`jt~+5?
   358222180.6396, Layer 4 to 5
                                 Message = 8T8.Jf?[w5Qm+Gc~<Xt
В:
                                 Message = 9g693a0^-Z*W'T$Q~N\{K
B: 358360195.9232, Layer 4 to 5
B: 358882390.8802, Layer 4 to 5
                                 Message = :yZ;:[<{]=|^>} ?~`A!
  359575069.1077, Layer 4 to 5
                                 Message = ;.~qd;I;.~qdVI;.~qdV
                                 Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
B:
   360316210.8208, Layer 4 to 5
   360507266.7759, Layer 4 to 5 Message = Si\sim6Lb=xEZp (=Si\sim6Lb
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 360508258.135 A: Timer
```

Printing the contents of the Simulation Event Q

Printing the contents of the Simulation Event Q

Printing the contents of the Simulation Event Q

```
Printing the contents of the Simulation Event Q
Event Time = 360516258.135 A: Timer
Printing the contents of the Simulation Event Q
```

```
Printing the contents of the Simulation Event Q
```

```
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 360530258.135 A: Timer
Printing the contents of the Simulation Event Q
```

Printing the contents of the Simulation Event Q

```
Printing the contents of the Simulation Event Q
Event Time = 360543758.135 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event {\tt Q}
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
```

```
Printing the contents of the Simulation Event Q
Event Time = 360549758.135 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 360550758.135 A: Timer
Printing the contents of the Simulation Event Q
```

Printing the contents of the Simulation Event Q

```
Printing the contents of the Simulation Event Q
Event Time = 360562758.135 A: Timer
Printing the contents of the Simulation Event Q
```

```
Printing the contents of the Simulation Event Q
Event Time = 360568758.135 A: Timer
Printing the contents of the Simulation Event Q
```

- Printing the contents of the Simulation Event ${\tt Q}$
- Printing the contents of the Simulation Event Q Event Time = 360575758.135 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 360580258.135 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 360581758.135 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q

```
Printing the contents of the Simulation Event Q
```

- Printing the contents of the Simulation Event ${\tt Q}$
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 360594258.135 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 360600758.135 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q

```
Printing the contents of the Simulation Event Q
```

```
Printing the contents of the Simulation Event Q
Event Time = 360617258.135 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 360617758.135 A: Timer
Printing the contents of the Simulation Event Q
```

```
Printing the contents of the Simulation Event Q
```

```
Printing the contents of the Simulation Event Q
Event Time = 360638258.135 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 360641758.135 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 360642758.135 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 360644258.135 A: Timer
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 360655758.135 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 360661258.135 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 360662258.135 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 360663258.135 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 360663258.135 A: Timer
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- Printing the contents of the Simulation Event ${\tt Q}$
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 360666768.441 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 360667268.441 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 360668768.441 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 360671268.441 A: Timer
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- Printing the contents of the Simulation Event ${\tt Q}$
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 360672768.441 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 360673768.441 A: Timer
- Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 360683768.441 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event {\tt Q}
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Printing the contents of the Simulation Event Q
Event Time = 360704268.441 A: Timer
Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event ${\tt Q}$
- Printing the contents of the Simulation Event Q Event Time = 360709268.441 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 360713768.441 A: Timer
- Printing the contents of the Simulation Event Q Event Time = 360713768.441 A: Timer
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Event Time = 360716282.692 A: Timer

- Printing the contents of the Simulation Event Q Event Time = 360716782.692 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 360717782.692 A: Timer
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Event Time = 360729282.692 A: Timer
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Event Time = 360729282.692 A: Timer
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- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 360734312.483 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 360735312.483 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 360736812.483 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 360737312.483 A: Timer
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Event Time = 360747312.483 A: Timer

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- Printing the contents of the Simulation Event Q Event Time = 360748312.483 A: Timer
- Printing the contents of the Simulation Event Q Event Time = 360748320.658 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 360750820.658 A: Timer
- Printing the contents of the Simulation Event Q Event Time = 360750828.226 A: Timer
- Printing the contents of the Simulation Event Q
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Event Time = 360774828.226 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 360785828.226 A: Timer
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Event Time = 360787828.226 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 360794328.226 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 360794328.226 A: Timer
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Event Time = 360795833.302 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 360803833.302 A: Timer
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- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 360820333.302 A: Timer
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- Printing the contents of the Simulation Event Q Event Time = 360823833.302 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 360843333.302 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 360849333.302 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 360852833.302 A: Timer
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- Printing the contents of the Simulation Event Q Event Time = 360855333.302 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 360857833.302 A: Timer
- Printing the contents of the Simulation Event Q Event Time = 360857833.302 A: Timer
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Event Time = 360866843.687 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 360868343.687 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 360869843.687 A: Timer
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- Printing the contents of the Simulation Event Q Event Time = 360871343.687 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 360874343.687 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 360874843.687 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 360883343.687 A: Timer
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Event Time = 360895843.687 A: Timer
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- Printing the contents of the Simulation Event ${\tt Q}$
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 360898343.687 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 360898843.687 A: Timer
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- Printing the contents of the Simulation Event Q Event Time = 360904343.687 A: Timer
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Event Time = 360909343.687 A: Timer
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Event Time = 360913343.687 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 360919843.687 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 360929843.687 A: Timer
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Event Time = 360930343.687 A: Timer
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Event Time = 360930343.687 A: Timer
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Event Time = 360930362.308 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 360942862.308 A: Timer
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Event Time = 360981362.308 A: Timer
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- Printing the contents of the Simulation Event Q
 Event Time = 360997362.308 A: Timer

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- Printing the contents of the Simulation Event Q Event Time = 361013874.736 A: Timer
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Event Time = 361032874.736 A: Timer
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Event Time = 361036874.736 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 361044874.736 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 361054374.736 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 361060874.736 A: Timer
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Event Time = 361062874.736 A: Timer
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- Printing the contents of the Simulation Event ${\tt Q}$
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- Printing the contents of the Simulation Event Q Event Time = 361069374.736 A: Timer
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- Printing the contents of the Simulation Event Q Event Time = 361075874.736 A: Timer
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Event Time = 361092874.736 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 361102874.736 A: Timer
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Event Time = 361108874.736 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 361117874.736 A: Timer
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- Printing the contents of the Simulation Event Q Event Time = 361119374.736 A: Timer
- Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Event Time = 361128374.736 A: Timer Printing the contents of the Simulation Event Q Event Time = 361129874.736 A: Timer Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q

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Event Time = 361135374.736 A: Timer

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- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 361145883.765 A: Timer
- Printing the contents of the Simulation Event Q Event Time = 361145883.765 A: Timer
- Printing the contents of the Simulation Event ${\tt Q}$
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- Printing the contents of the Simulation Event Q Event Time = 361147903.271 A: Timer
- Printing the contents of the Simulation Event Q
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Event Time = 361152403.271 A: Timer

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Printing the contents of the Simulation Event Q
Event Time = 361173403.271 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event {\tt Q}
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Event Time = 361178903.271 A: Timer
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- Printing the contents of the Simulation Event ${\tt Q}$
- Printing the contents of the Simulation Event Q Event Time = 361179903.271 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 361182403.271 A: Timer
- Printing the contents of the Simulation Event Q Event Time = 361182403.271 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 361182906.946 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 361183906.946 A: Timer
- Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 361188406.946 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 361192906.946 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 361197413.884 A: Timer
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Event Time = 361198413.884 A: Timer
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- Printing the contents of the Simulation Event Q Event Time = 361221945.893 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 361222945.893 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 361223945.893 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 361224945.893 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 361225445.893 A: Timer
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- Printing the contents of the Simulation Event Q Event Time = 361226945.893 A: Timer
- Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 361231445.893 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 361236445.893 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 361240445.893 A: Timer
Printing the contents of the Simulation Event Q
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Event Time = 361240945.893 A: Timer
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- Printing the contents of the Simulation Event ${\tt Q}$
- Printing the contents of the Simulation Event Q Event Time = 361245945.893 A: Timer
- Printing the contents of the Simulation Event Q Event Time = 361245945.893 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 361246960.449 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 361249460.449 A: Timer
- Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 361256960.449 A: Timer
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Event Time = 361257460.449 A: Timer
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Event Time = 361258960.449 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 361265960.449 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 361266460.449 A: Timer
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Event Time = 361270460.449 A: Timer

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Event Time = 361274460.449 A: Timer

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- Printing the contents of the Simulation Event Q Event Time = 361304960.449 A: Timer
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- Printing the contents of the Simulation Event Q Event Time = 361305960.449 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 361321960.449 A: Timer
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Event Time = 361331460.449 A: Timer
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- Printing the contents of the Simulation Event ${\bf Q}$
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Event Time = 361343967.088 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 361351467.088 A: Timer
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Event Time = 361355467.088 A: Timer
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Event Time = 361373467.088 A: Timer
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Event Time = 361375467.088 A: Timer
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Event Time = 361375967.088 A: Timer
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- Printing the contents of the Simulation Event ${\bf Q}$
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- Printing the contents of the Simulation Event Q Event Time = 361376967.088 A: Timer
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- Printing the contents of the Simulation Event Q Event Time = 361377467.088 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 361397967.088 A: Timer
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Event Time = 361398467.088 A: Timer
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Event Time = 361401967.088 A: Timer
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Event Time = 361411967.088 A: Timer
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Event Time = 361432967.088 A: Timer
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Printing the contents of the Simulation Event Q
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Event Time = 361441967.088 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 361451467.088 A: Timer
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Event Time = 361466467.088 A: Timer

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Printing the contents of the Simulation Event Q
Event Time = 361488467.088 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 361488967.088 A: Timer
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- Printing the contents of the Simulation Event ${\tt Q}$
- Printing the contents of the Simulation Event Q Event Time = 361494467.088 A: Timer
- Printing the contents of the Simulation Event Q Event Time = 361494467.088 A: Timer
- Printing the contents of the Simulation Event Q Event Time = 361494482.917 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 361505482.917 A: Timer
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- Printing the contents of the Simulation Event Q Event Time = 361518982.917 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 361528982.917 A: Timer
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Event Time = 361549982.917 A: Timer
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Event Time = 361550991.634 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 361555491.634 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 361568991.634 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 361573491.634 A: Timer
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Event Time = 361573991.634 A: Timer
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Event Time = 361576991.634 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 361580491.634 A: Timer
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Event Time = 361586991.634 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 361588991.634 A: Timer
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Event Time = 361596491.634 A: Timer

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Event Time = 361613491.634 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 361619491.634 A: Timer
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- Printing the contents of the Simulation Event Q Event Time = 361623991.634 A: Timer
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Event Time = 361632991.634 A: Timer
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Event Time = 361635491.634 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 361642991.634 A: Timer
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Event Time = 361643991.634 A: Timer
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Event Time = 361655991.634 A: Timer
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- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event ${\tt Q}$
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Event Time = 361694001.964 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 361699001.964 A: Timer
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Event Time = 361700501.964 A: Timer
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Event Time = 361704501.964 A: Timer
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- Printing the contents of the Simulation Event ${\tt Q}$
- Printing the contents of the Simulation Event Q Event Time = 361713501.964 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 361723001.964 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 361725501.964 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event {\tt Q}
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 361747501.964 A: Timer
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 361753001.964 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 361754001.964 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event {\tt Q}
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 361757001.964 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 361765501.964 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event ${\tt Q}$
- Printing the contents of the Simulation Event Q Event Time = 361767501.964 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 361769001.964 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 361770001.964 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event ${\tt Q}$
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Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event ${\tt Q}$
- Printing the contents of the Simulation Event Q Event Time = 361785501.964 A: Timer
- Printing the contents of the Simulation Event Q Event Time = 361785501.964 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 361786515.083 A: Timer
- Printing the contents of the Simulation Event Q Event Time = 361786515.083 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 361789523.495 A: Timer
- Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 361806523.495 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 361806523.495 A: Timer
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_		contents 361814534			Simulation Timer	Event	Q
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_		contents 361818534			Simulation Timer	Event	Q
Printing	the	contents	of	the	Simulation	Event	Q

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Printing the contents of the Simulation Event Q
Event Time = 361828034.343 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 361834034.343 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 361834534.343 A: Timer
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 361843034.343 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 361843034.343 A: Timer
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 361858047.635 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 361861547.635 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event {\tt Q}
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 361868547.635 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 361870547.635 A: Timer
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 361874047.635 A: Timer
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event {\bf Q}
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Printing the contents of the Simulation Event Q
Event Time = 361883547.635 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 361886547.635 A: Timer
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event {\tt Q} Printing the contents of the Simulation Event {\tt Q}
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- Printing the contents of the Simulation Event ${\tt Q}$
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 361893047.635 A: Timer
- Printing the contents of the Simulation Event Q Event Time = 361893047.635 A: Timer
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- Printing the contents of the Simulation Event Q Event Time = 361894068.477 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event ${\tt Q}$
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 361900068.477 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 361901568.477 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 361906068.477 A: Timer
- Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 361909568.477 A: Timer
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 361917568.477 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 361919568.477 A: Timer
Printing the contents of the Simulation Event Q
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Event Time = 361924568.477 A: Timer

Printing the contents of the Simulation Event Q Event Time = 361924568.477 A: Timer Printing the contents of the Simulation Event Q Event Time = 361927085.236 A: Timer Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Event Time = 361928085.236 A: Timer Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event ${\tt Q}$ Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q

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		contents 361940585			Simulation Timer	Event	Q
Printing	the	contents	of	the	Simulation	Event	Q
_		contents 361941085			Simulation Timer	Event	Q

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Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 361954085.236 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 361957585.236 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 361958085.236 A: Timer
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Event Time = 361959585.236 A: Timer Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event ${\tt Q}$ Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q

Printing the contents of the Simulation Event Q

Event Time = 361967585.236 A: Timer

- Printing the contents of the Simulation Event ${\tt Q}$
- Printing the contents of the Simulation Event Q Event Time = 361968085.236 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 361974085.236 A: Timer
- Printing the contents of the Simulation Event ${\tt Q}$
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Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Event Time = 361976585.236 A: Timer Printing the contents of the Simulation Event Q Event Time = 361982585.236 A: Timer Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q

Event Time = 361984085.236 A: Timer

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Printing the contents of the Simulation Event Q
Event Time = 361989085.236 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 361990085.236 A: Timer
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 361998085.236 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event {\tt Q}
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Printing the contents of the Simulation Event Q
Event Time = 362005085.236 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 362005085.236 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 362007612.002 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event {\tt Q}
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 362017112.002 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 362018112.002 A: Timer
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 362023612.002 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event {\bf Q}
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 362030112.002 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 362033612.002 A: Timer
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 362038112.002 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event ${\tt Q}$
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- Printing the contents of the Simulation Event Q Event Time = 362043112.002 A: Timer
- Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 362051112.002 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 362053112.002 A: Timer
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q Event Time = 362056112.002 A: Timer Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Event Time = 362057112.002 A: Timer Printing the contents of the Simulation Event Q Event Time = 362059112.002 A: Timer Printing the contents of the Simulation Event Q Event Time = 362060612.002 A: Timer Printing the contents of the Simulation Event Q

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Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 362084112.002 A: Timer
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 362085112.002 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event {\tt Q}
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Printing the contents of the Simulation Event Q Event Time = 362090112.002 A: Timer Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event ${\bf Q}$ Event Time = 362091612.002 A: Timer Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q

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Event Time = 362118612.002 A: Timer

Printing the contents of the Simulation Event Q Event Time = 362120612.002 A: Timer Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q

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Printing the contents of the Simulation Event Q Event Time = 362126612.002 A: Timer

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Printing the contents of the Simulation Event Q
Event Time = 362134112.002 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 362134112.002 A: Timer
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- Printing the contents of the Simulation Event Q Event Time = 362135618.137 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 362137118.137 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 362147118.137 A: Timer
Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 362153618.137 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 362154618.137 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 362155118.137 A: Timer
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- Printing the contents of the Simulation Event Q Event Time = 362156618.137 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 362158118.137 A: Timer
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- Printing the contents of the Simulation Event Q Event Time = 362159618.137 A: Timer
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- Printing the contents of the Simulation Event Q Event Time = 362162118.137 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 362163118.137 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 362163618.137 A: Timer
- Printing the contents of the Simulation Event Q Event Time = 362163618.137 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 362178649.294 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 362180149.294 A: Timer
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event ${\tt Q}$
- Printing the contents of the Simulation Event Q Event Time = 362195649.294 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 362198149.294 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 362200649.294 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 362201149.294 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q

Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Event Time = 362202649.294 A: Timer Printing the contents of the Simulation Event Q Event Time = 362204649.294 A: Timer Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q

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Printing the contents of the Simulation Event Q
Event Time = 362215649.294 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 362217149.294 A: Timer
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 362221649.294 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 362224649.294 A: Timer
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Event Time = 362226649.294 A: Timer
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 362230149.294 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 362232149.294 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event {\tt Q}
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Event Time = 362235649.294 A: Timer

- Printing the contents of the Simulation Event Q Event Time = 362235649.294 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 362236660.874 A: Timer
- Printing the contents of the Simulation Event Q Event Time = 362236660.874 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 362266174.203 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
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Event Time = 362267174.203 A: Timer
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Printing the contents of the Simulation Event {\tt Q}
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Event Time = 362271674.203 A: Timer

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Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Event Time = 362282674.203 A: Timer Printing the contents of the Simulation Event Q Event Time = 362285674.203 A: Timer Printing the contents of the Simulation Event Q Event Time = 362287674.203 A: Timer Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q

Printing the contents of the Simulation Event Q

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Printing the contents of the Simulation Event Q
Event Time = 362292674.203 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 362294674.203 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 362295174.203 A: Timer
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 362303174.203 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 362303674.203 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event {\tt Q}
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Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 362308674.203 A: Timer
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event {\bf Q}
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 362319174.203 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 362319674.203 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 362321174.203 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 362322174.203 A: Timer
Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event ${\tt Q}$
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 362324174.203 A: Timer
- Printing the contents of the Simulation Event Q Event Time = 362324174.203 A: Timer
- Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Event Time = 362332690.218 A: Timer Printing the contents of the Simulation Event Q Event Time = 362336190.218 A: Timer Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Event Time = 362336690.218 A: Timer Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Event Time = 362337190.218 A: Timer Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q

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Printing the contents of the Simulation Event Q
Event Time = 362348190.218 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 362354190.218 A: Timer
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 362364190.218 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 362365190.218 A: Timer
Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event ${\tt Q}$
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 362367190.218 A: Timer
- Printing the contents of the Simulation Event ${\tt Q}$
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 362370690.218 A: Timer
- Printing the contents of the Simulation Event Q Event Time = 362370690.218 A: Timer
- Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 362375704.339 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 362379704.339 A: Timer
Printing the contents of the Simulation Event Q
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Event Time = 362382204.339 A: Timer

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Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 362395704.339 A: Timer
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 362404704.339 A: Timer
Printing the contents of the Simulation Event Q
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Event Time = 362410204.339 A: Timer

Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Event Time = 362411204.339 A: Timer Printing the contents of the Simulation Event Q Event Time = 362412704.339 A: Timer Printing the contents of the Simulation Event Q Event Time = 362414204.339 A: Timer Printing the contents of the Simulation Event Q Event Time = 362416704.339 A: Timer

Printing the contents of the Simulation Event Q

- Printing the contents of the Simulation Event Q Event Time = 362417704.339 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event ${\bf Q}$
- Printing the contents of the Simulation Event Q Event Time = 362423704.339 A: Timer
- Printing the contents of the Simulation Event Q Event Time = 362423704.339 A: Timer
- Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 362433709.535 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 362443209.535 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
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Event Time = 362443709.535 A: Timer

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Printing the contents of the Simulation Event Q
Event Time = 362447709.535 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 362447709.535 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event {\tt Q}
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Printing the contents of the Simulation Event Q
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_		contents 362471725			Simulation : Timer	Event	Q

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Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event {\bf Q}
Event Time = 362473725.956 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 362479225.956 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 362483725.956 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 362483725.956 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 362486237.864 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 362487237.864 A: Timer
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Printing the contents of the Simulation Event Q Event Time = 362487737.864 A: Timer Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q

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Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event ${\tt Q}$
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 362508237.864 A: Timer
- Printing the contents of the Simulation Event Q Event Time = 362508237.864 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 362510244.436 A: Timer
- Printing the contents of the Simulation Event Q Event Time = 362510244.436 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 362511752.303 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 362513752.303 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 362515752.303 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 362516752.303 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 362519752.303 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event ${\tt Q}$
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- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 362522752.303 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 362525252.303 A: Timer
- Printing the contents of the Simulation Event Q Event Time = 362525252.303 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 362528277.155 A: Timer

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Printing the contents of the Simulation Event Q
Event Time = 362534277.155 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 362534777.155 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 362534777.155 A: Timer
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 362539296.236 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 362543796.236 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 362550296.236 A: Timer
   362549802.3809, Layer 4 to 5 Message = dfxV}Gn7>(Ov2g0W~Ho8
   362683845.9510, Layer 4 to 5 Message = ?fS.gBzU0?D|W23F\sim Y4m
   363135041.7648, Layer 4 to 5 Message = A-wdP<)s`LA%o[H4~kWD
B: 363402596.3660, Layer 4 to 5 Message = B?=;97531x-B)'%#~|zx
B: 365037988.3935, Layer 4 to 5 Message = CRbq#2BQap!1CP`o~0?0
B: 365890198.4867, Layer 4 to 5 Message = De(Ij-No2St7XD<^~Bc&
   366812926.8399, Layer 4 to 5
                                  Message = EwL~S(Zxb6i=pEEL~S(Z
   367149010.8659, Layer 4 to 5
                                  Message = d,pV<#gM3w^D2nTF~eK1</pre>
B:
   367530169.1459, Layer 4 to 5
                                  Message = G>6.&{skcZRJB91)Gvnf
    368143268.6701, Layer 4 to 5
                                  Message = HQZdmv!+4=GPYclu~H3
B: 368246293.6212, Layer 4 to 5
                                  Message = If~; Vq.Id~; Vq.3d~; Iq
B: 368633937.2066, Layer 4 to 5
                                  Message = JvEq?1:g5b0]+W&R~MyJ
                                  Message = K+iI)gG'eE%cC#aA~ >|
B: 368781449.4712, Layer 4 to 5
B: 370783873.6976, Layer 4 to 5
                                  Message = LLx~pbSE6(wiZL=x~pbS
B: 370792890.5754, Layer 4 to 5 Message = dPMVY] cfilo2ux{~$'*
   370965940.2741, Layer 4 to 5 Message = NcwNCWl#7Lau, AUj~5J
B:
   371436146.7642, Layer 4 to 5 Message = Ou=dORxAgxU{Dj2X~Gm5
   371721206.1617, Layer 4 to 5
                                  Message = P*b;sP' 8pJ$[5mG~X2j
                                  Message = Q<(q]HQ|hS>*s_J5~jUA
   372073316.5255, Layer 4 to 5
B:
   372651990.1420, Layer 4 to 5
                                  Message = RfLIFC?R9630-*3$~{xu
B: 373478145.2330, Layer 4 to 5
                                  Message = Sbp~x=LZSw(6ESbp~x=L
B: 373637716.7865, Layer 4 to 5
                                  Message = dt6Vv8Xx:Tz<2|> ~Aa#
                                  Message = U) Z. `3e8j=UCtHyM~R&W
B: 373990809.7537, Layer 4 to 5
B: 374466999.6646, Layer 4 to 5 Message = V;~dI.qV;~dV.qV;~dI.
B: 374532015.0618, Layer 4 to 5 Message = WNE;2)}tkbXOW<3*~ulc
```

```
B:
    375207247.7303, Layer 4 to 5 Message = Xaiqy$, 4<EMU^Xnv~)19
В:
    375753880.9620, Layer 4 to 5
                                  Message = YsxIc|8Rl(B[u1Ye~:Tn
    376527521.4800, Layer 4 to 5
                                  Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE
В:
B:
    377295625.7778, Layer 4 to 5
                                  Message = dfwV5rQ0mL+h2&3B[^<y]
   378122403.6292, Layer 4 to 5
                                  Message = ]M=.|m^N>x}n O?0~]`P
B:
                                  Message = ^`bdfhjlnprtvxz|~#^'
   379577258.6363, Layer 4 to 5
B:
   379726794.2149, Layer 4 to 5
                                  Message = r(;Ocv,?Sgz0DWk~4H
                                  Message = \ \'Lq8^\%Jo6[\#Hm4Y~Fk2
   379911816.3715, Layer 4 to 5
B:
   380215351.7062, Layer 4 to 5
                                  Message = aapI!X1hAwP) `8oH~W0g
    381262186.7573, Layer 4 to 5
                                  Message = bLb~iS=(pZExwbL6~iS=
В:
    381370690.0397, Layer 4 to 5
                                  Message = d ZcRNJFB=952-)%~zvr
B:
    382136883.1221, Layer 4 to 5
                                  Message = dq~.dIVdq~.;IVdq~.;I
B:
B:
    382448524.7715,
                   Layer 4 to 5
                                  Message = efEd%ec$Cb#Ba!3`~? }
B: 382994645.7088, Layer 4 to 5
                                  Message = f8i;l>fBrEuHxK{N~Q$T
B: 383701366.0808, Layer 4 to 5
                                  Message = gKxqU9\{gD(jN2tX<\sim cG+
                                  Message = h^SI>4*hi TJ?5+~tj`
B: 384140035.8309, Layer 4 to 5
   384791831.6179, Layer 4 to 5
                                  Message = ipw \sim (x6 = EiSZbipw \sim (x6)
B:
   385217947.9836, Layer 4 to 5
                                  Message = d%=Vo*C[txja24Mf~9Rk
В:
    385905133.4293, Layer 4 to 5
                                  Message = k7b.X\%OyFp< k3^*T\sim KuB
    386334830.0949, Layer 4 to 5
                                  Message = lJ(dB)[9uS1ml)eC~]:v
   387420179.9233, Layer 4 to 5
                                  Message = m]L;+xhWG6&scmB1~n^M
B:
   387938271.2003, Layer 4 to 5
                                  Message = nfpqrstuvwxyz{n}~!#$
B:
   389500682.5073, Layer 4 to 5
В:
                                  Message = 0$6I[n#5HZm!4GYo~3FX]
   389873774.7235, Layer 4 to 5
                                  Message = p6Z~EixSw=b(Lp6ZpEix
   390151894.4999, Layer 4 to 5
                                  Message = dI~V.d;qI~V.2;qI~q.d
B:
   390208442.5992, Layer 4 to 5
                                  Message = r[E.u H1xbK4{eN7~hr}:
    390302526.9549, Layer 4 to 5
                                  Message = snid YTOJE?:50+&~yts
В:
    391229766.2261, Layer 4 to 5
                                  Message = t # x; HTamy (4AMYfr~-9F
B:
    391871860.4534, Layer 4 to 5
                                  Message = uuSq10m-Ki)Ge%Ca~>]z
B: 392485532.2924, Layer 4 to 5
                                  Message = vHvIxJyKzL{M|N}O~P!Q
B: 392685568.8981, Layer 4 to 5
                                  Message = wf=wbE(iLxpS6w3=~bE(
B: 393312233.2780, Layer 4 to 5
                                  Message = dmbVx?4) {peY2C7, ~sh]
                                  Message = y!(.4yAGMSY`flrx~'-3
B·
   394199464.5513, Layer 4 to 5
                                  Message = z4Ld{5ze|6Nf}70g~8Ph
   395459149.5395, Layer 4 to 5
B:
    396521022.9614, Layer 4 to 5
                                  Message = {Gp;e0Y{NwCl7a,U~Js>
В:
    396647543.5377, Layer 4 to 5
                                  Message = |Y6qN+fC|Z7rO, qD\sim[8s]
B:
    397405638.2933, Layer 4 to 5
                                  Message = }lZI7&raO},xgUD2~m[J
   397541713.3419, Layer 4 to 5
                                  В:
B:
   397871808.3050, Layer 4 to 5
                                  Message = !3EVhy->Pbs'2J[m~2DU
   397960362.1354, Layer 4 to 5
                                  Message = \#\#i.Qt9]!Eh-Ps3[~Dg,
   398485959.7541, Layer 4 to 5
                                  Message = $X$d:oFzQ(]3h>sJ~U,a
                                  Message = %kS%iR:\#iQ9!hP8\sim gO7
   399429196.7898, Layer 4 to 5
B:
   400078883.4859, Layer 4 to 5
                                  Message = &}wq&e XRLF?93-'~xrl
B:
   401242078.6266, Layer 4 to 5
                                  Message = '2=IT'kv$x:FQ]hs\sim,7C
B:
    402909001.5845, Layer 4 to 5
                                  Message = (Eb \sim = Z (6SpxLi (Eb \sim = Zw))
B:
   403678210.8852, Layer 4 to 5
                                  Message = dW(V'U\&)%S$R2Q!P~O}N
B:
   403974809.0283, Layer 4 to 5
                                  Message = *jL.nP2r*6vX:z]>~aC%
B: 404524410.8803, Layer 4 to 5
                                  Message = +|pdWK>2&+k RF9-~rfY
B: 404998508.8034, Layer 4 to 5
                                  Message = ,f6;AFKPUZ,ejo3y~&+0
B: 405249076.5775, Layer 4 to 5
                                  Message = -DZq*AWn'=T-$:Qh~7Ne
B: 405790210.4407, Layer 4 to 5
                                  Message = .V~Iq;d.V~Iq.d.V~Iq;
   406151270.2929, Layer 4 to 5
                                  Message = xiE~Z6pL(b=wSxiE~Z6p
В:
   406575458.5086, Layer 4 to 5
                                  Message = d\{iVD1|jWE2\}2X03\sim1YG
В:
   406853552.0342, Layer 4 to 5
                                  Message = 10x.-,+*) ('&%$\$\$1~}|{
B:
   407074213.2542, Layer 4 to 5
                                  Message = 2CSdt'7HXiy, <M^n21BR</pre>
B:
   408233502.0433, Layer 4 to 5
                                  Message = 3Uw;^!Df*Ln2Tv:]~3e)
   408528570.1053, Layer 4 to 5
B:
                                  Message = 4h=qGzP&Yxc8lBuK~T4^
   409415297.5783, Layer 4 to 5
                                  Message = 5fbI0ulD+pW>&k39~fM5
                                  Message = 6x(~wpibZSLE=6x(~wpi
B: 409454841.2173, Layer 4 to 5
B: 410437111.6059, Layer 4 to 5
                                  Message = d7LVaku!, 6AK2 jt~+5?
```

```
B: 410824181.2606, Layer 4 to 5 Message = 8T8.Jf$?[w5Qm+Gc~<Xt
                                   Message = 9g693a0^-Z*W'T$Q~N\{K
В:
    412853706.2375, Layer 4 to 5
    413540394.4445, Layer 4 to 5
                                   Message = :yZ;:[<{]=|^>}_?~`A!
В:
B:
   413617914.9026, Layer 4 to 5
                                   Message = ;.~qd;I;.~qdVI;.~qdV
   413984998.0511, Layer 4 to 5
                                   Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
B:
   414488541.6977, Layer 4 to 5
                                   Message = =Si \sim 6Lb = xEZp (=Si \sim 6Lb
B:
B:
   417702458.3100, Layer 4 to 5
                                   Message = dfxV}Gn7>(Ov2g3W~Ho8
                                   Message = ?xS.gBzU0?D|W2kF~Y4m
   417888492.9127, Layer 4 to 5
                                   Message = A-wdP<)s`LA%o[H4~kWD
B:
   418635673.9102, Layer 4 to 5
   418709203.9115, Layer 4 to 5
                                   Message = B?=;97531x-B)'%\#\sim|zx
В:
                    Layer 4 to 5
B:
    418958303.2511,
                                   Message = CRbq#2BQap!1CP`o~0?0
    419530378.6126, Layer 4 to 5
B:
                                   Message = De(Ij-No2St7XD<^~Bc&</pre>
   421564924.8013,
B:
                   Layer 4 to 5
                                   Message = EwL\sim S(Zxb6i=pEEL\sim S(Z
B: 422288151.5306, Layer 4 to 5
                                   Message = d,pV<\#gM3w^D2nTF\sim eK1
B: 423027988.1730, Layer 4 to 5
                                   Message = G>6.&(skcZRJB91)Gvnf
                                   Message = HfZdmv!+4=GPYc3u~H3<</pre>
B: 425826268.7450, Layer 4 to 5
B: 426117346.7838, Layer 4 to 5
                                   Message = Id~; Vq.Id~; Vq.Id~; Iq
B: 426545928.3700, Layer 4 to 5
                                   Message = JvEq?1:g5b0]+W&R~MyJ
   427021528.9648, Layer 4 to 5
                                   Message = K+iI)gG'eE%cC#aA~ >|
B:
   428518345.8372, Layer 4 to 5
                                   Message = LLx~pbSE6(wiZL=x~pbS
   429181025.2376, Layer 4 to 5
                                   Message = dPMVY] `cfilo2ux{~$'*
B:
   429366097.3270, Layer 4 to 5
                                   Message = NcwNCWl#7Lau,AUj~5J
B:
B: 430307271.6552, Layer 4 to 5
                                   Message = Ou=dORxAgxU{Dj2X~Gm5
   430436336.6485, Layer 4 to 5
                                   Message = P*b;sP' 8pJ$[5mG~X2j
В:
   430902078.0232, Layer 4 to 5
                                   Message = Qf(q)HQ|hS>*s 35~jUA
B:
   431275689.0002, Layer 4 to 5
                                   Message = ROLIFC?R9630-*'$~{xu
   431351219.4988, Layer 4 to 5
                                   Message = Sbp~x=LZSw(6ESbp~x=L
В:
    432244929.2890, Layer 4 to 5
                                   Message = dt6Vv8Xx:Tz<2|> ~Aa#
B:
   432764048.4544, Layer 4 to 5
                                   Message = U) Z.`3e8j=UCtHyM~R&W
B:
   432824074.1686, Layer 4 to 5
                                   Message = V;~dI.qV;~dV.qV;~dI.
B: 432845079.9285, Layer 4 to 5
                                   Message = WNE; 2) } tkbXOW<3*~ulc</pre>
B: 433685343.8206, Layer 4 to 5
                                   Message = Xaiqy$, 4<EMU^Xnv~)19</pre>
                                   Message = YsxIc|8Rl(B[u1Ye~:Tn
B: 433735388.8321, Layer 4 to 5
B: 434174524.6825, Layer 4 to 5
                                   Message = ZfS~LwEp=i6bxZ3Z~LwE
B: 434752668.3281, Layer 4 to 5
                                   Message = d:wV5rQ0mL+h2&cB[^<y</pre>
   435444394.5880, Layer 4 to 5
                                   Message = ]M=.|m^N>x\}n O?0~]`P
B:
   435489401.7391, Layer 4 to 5
                                   Message = ^`bdfhjlnprtvxz|~#^'
   435733947.0433, Layer 4 to 5
                                   Message =
В:
                                              r(;Ocv,?Sgz0DWk~4H
                                   Message = \'\Lq8^\%Jo6[\#Hm4Y\circ\Fk2
B:
   436829914.3570, Layer 4 to 5
B:
   437316993.8656, Layer 4 to 5
                                   Message = aapI!X1hAwP) `8oH~W0g
   438559363.5828, Layer 4 to 5
                                   Message = bLb~iS=(pZExwbL6~iS=
                                   Message = d ZcRNJFB=952-)%~zvr
   439007545.6624, Layer 4 to 5
B:
                                   Message = df~.dIVdq~.;IV3q~.;I
В:
   439079565.9094, Layer 4 to 5
                    Layer 4 to 5
                                   Message = e&Ed%ec$Cb#Ba!A`~? }
B:
   439125635.3150,
    439672311.4513,
                    Layer 4 to 5
                                   Message = f8i;l>fBrEuHxK{N~Q$T
B:
   439992371.1885,
                   Layer 4 to 5
                                   Message = gKxqU9\{gD(jN2tX<\sim cG+
B:
   440186447.8689,
                   Layer 4 to 5
                                   Message = h^SI>4*hi TJ?5+~tj`
B: 440470087.6204, Layer 4 to 5
                                   Message = ipw~(x6=EiSZbipw~(x6
B: 440842176.8090, Layer 4 to 5
                                   Message = d%=Vo*C[txja24Mf~9Rk
B: 441442861.0579, Layer 4 to 5
                                   Message = k7b.X%OyFp<k3^*T\sim KuB
                                   Message = lJ(dB)[9uS1ml)eC~]:v
B: 441473383.4908, Layer 4 to 5
   442295623.3866, Layer 4 to 5
В:
                                   Message = mfL; +xhWG6&scm31~n^M
   442958756.8156, Layer 4 to 5
                                   Message = nopgrstuvwxyz{n}~!#$
В:
   444133258.0708, Layer 4 to 5
                                   Message = 0$6I[n#5HZm!4GYo~3FX
   444710412.8209, Layer 4 to 5
B:
                                   Message = p6Z~EixSw=b(Lp6ZpEix
B:
   445218059.0814, Layer 4 to 5
                                   Message = dI~V.d;qI~V.2;qI~q.d
   445644112.4717, Layer 4 to 5
B:
                                   Message = r[E.u H1xbK4{eN7~hr}:
                                   Message = snid YTOJE?:50+&~yts
   446482312.0510, Layer 4 to 5
   446512344.3901, Layer 4 to 5
                                   Message = t #x; HTamy (4AMYfr~-9F
B:
   446698881.0690, Layer 4 to 5
                                   Message = uuSq10m-Ki)Ge%Ca~>]z
```

```
B: 447041530.8513, Layer 4 to 5 Message = vfvIxJyKzL{M|N30~P!Q
     447256118.7732, Layer 4 to 5
В:
                                                    Message = wZ=wbE(iLxpS6wZ=~bE(
     447348148.2652, Layer 4 to 5
                                                    Message = dmbVx?4) {peY2C7, ~sh]
В:
В:
     447440184.7759, Layer 4 to 5
                                                    Message = y!(.4yAGMSY`flrx~'-3
    447497201.1148, Layer 4 to 5
                                                    Message = z4Ld{5ze|6Nf}70g~8Ph
B:
B: 447568754.2319, Layer 4 to 5
                                                    Message = {Gp;e0Y{NwCl7a,U~Js>
    448546572.9307, Layer 4 to 5
                                                    Message = |Y6qN+fC|Z7rO, gD\sim[8s]
    448657585.4274, Layer 4 to 5
                                                    Message = }lZI7&raO},xgUD2~m[J
                                                    B:
    449035166.8326, Layer 4 to 5
     449305777.4081, Layer 4 to 5
                                                    Message = !fEVhy->Pbs'2J3m~2DU
В:
     450765141.1717, Layer 4 to 5
                                                    Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
В:
      451330251.2192, Layer 4 to 5
                                                    Message = $X$d:oFzQ(]3h>sJ~U,a
B:
B:
    451577832.1045, Layer 4 to 5
                                                    Message = %kS%jR:#iQ9!hP8~gO7
B: 451885933.3292, Layer 4 to 5
                                                    Message = '2=IT'kv$x:FQ]hs\sim,7C
B: 451995519.7133, Layer 4 to 5
B: 452351104.4072, Layer 4 to 5
                                                    Message = (Eb~=Z(6SpxLi(Eb~=Zw
B: 452767219.1043, Layer 4 to 5
                                                    Message = dW(V'U&)%S$R2Q!P~O}N
B: 453161767.9219, Layer 4 to 5
                                                    Message = *jL.nP2r*6vX:z]>~aC%
    453486880.5836, Layer 4 to 5
                                                    Message = +fpdWK>2&+k RF3-~rfY
B:
                                                    Message = ,16;AFKPUZ,ejoty~&+0
     453834010.8294, Layer 4 to 5
B:
     453878545.9201, Layer 4 to 5
                                                    Message = -DZq*AWn'=T-$:Qh~7Ne
    455759028.4212, Layer 4 to 5
                                                    Message = .V~Iq;d.V~Iq.d.V~Iq;
B:
B: 456415228.2957, Layer 4 to 5
                                                    Message = xiE~Z6pL(b=wSxiE~Z6p
    456630302.2809, Layer 4 to 5
                                                    Message = d\{iVD1|jWE2\}2X03\sim1YG
B: 457148919.8376, Layer 4 to 5
                                                    Message = 10x.-,+*) ('&%$\$1~}|{
B: 457839620.3440, Layer 4 to 5
                                                    Message = 2CSdt'7HXiy,<M^n21BR</pre>
     458078704.3811, Layer 4 to 5
                                                    Message = 3Uw;^!Df*Ln2Tv:]~3e)
B:
     458494812.3751, Layer 4 to 5
                                                    Message = 4f=qGzP&Yxc8lB3K~T4^
B:
     458613853.1537, Layer 4 to 5
                                                    Message = 5zbI0u]D+pW>&kR9~fM5
B:
     458773951.7266, Layer 4 to 5
                                                    Message = 6x(~wpibZSLE=6x(~wpi
B: 459624093.3040, Layer 4 to 5
                                                    Message = d7LVaku!, 6AK2`jt~+5?
B: 459888156.5577, Layer 4 to 5
                                                    Message = 8T8.Jf$?[w5Qm+Gc~<Xt
B: 460917997.9804, Layer 4 to 5
                                                    Message = 9g693a0^-Z*W'T$Q~N\{K
B: 461538582.8299, Layer 4 to 5
                                                    Message = :yZ;: [<{ ]=|^>} ?~`A!
B: 461618126.1400, Layer 4 to 5
                                                    Message = ;.~qd;I;.~qdVI;.~qdV
     461948339.3035, Layer 4 to 5
                                                    Message = <AEIMQ<Y^bfjnrvz~%) -
B:
     462394020.3531, Layer 4 to 5
                                                    Message = =fi~6Lb=xEZp(=3i~6Lb
                                                    Message = dfxV}Gn7>(Ov2g0W~Ho8
     463038673.8638, Layer 4 to 5
В:
B:
    463223683.8339, Layer 4 to 5
                                                    Message = ?xS.gBzU0?D|W2kF~Y4m
B:
    463322259.3767, Layer 4 to 5
                                                    Message = A-wdP<)s`LA%o[H4~kWD</pre>
    463700840.9798, Layer 4 to 5
                                                    Message = B?=;97531x-B)'%\#~|zx
    464073944.1808, Layer 4 to 5
                                                    Message = CRbq#2BQap!1CP`o~0?0
B:
    465016130.8008, Layer 4 to 5
                                                    Message = De(Ij-No2St7XD<^~Bc&</pre>
B:
     465322817.5392, Layer 4 to 5
                                                    Message = EwL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL)\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL)\sim S(Zxb6i=pEEL)
В:
     465805420.2216, Layer 4 to 5
                                                    Message = d_pV<\#gM3w^D2nTF\sim eK1
B:
     465903450.6075, Layer 4 to 5
                                                    Message = Gf6.&{skcZRJB93)Gvnf
B: 466896131.2572, Layer 4 to 5
                                                    Message = HQZdmv!+4=GPYclu~H3<</pre>
B: 467266199.2802, Layer 4 to 5
                                                    Message = Id~; Vq.Id~; Vq.Id~; Iq
B: 467921957.1025, Layer 4 to 5
                                                    Message = JvEq?l:g5b0]+W&R~MyJ
                                                    Message = K+iI)gG'eE%cC#aA~ >|
B: 468258063.4301, Layer 4 to 5
B: 468533138.5904, Layer 4 to 5
                                                    Message = LLx~pbSE6(wiZL=x~pbS
     468595165.5179, Layer 4 to 5
                                                    Message = dPMVY]`cfilo2ux{~$'*
B:
     469782999.0104, Layer 4 to 5
                                                    Message = NcwNCWl#7Lau, AUj~5J
В:
     470125620.2340, Layer 4 to 5
                                                    Message = Ou=dORxAqxU{Dj2X~Gm5
B:
     470982807.3169, Layer 4 to 5
                                                    Message = Pfb;sP' 8pJ$[53G~X2j
B:
    471802544.1098, Layer 4 to 5
                                                    Message = Q<(q]HQ|hS>*s J5~jUA
    472240157.1537, Layer 4 to 5
                                                    Message = ROLIFC?R9630-*'$~{xu
B:
B: 473175435.7151, Layer 4 to 5
                                                    Message = Sbp~x=LZSw(6ESbp~x=L
B: 473229968.2826, Layer 4 to 5
                                                    Message = dt6Vv8Xx:Tz<2|> ~Aa#
B: 473518563.8711, Layer 4 to 5 Message = U)Z.~3e8j=UCtHyM~R&W
```

```
B: 473977199.4012, Layer 4 to 5 Message = V;~dI.qV;~dV.qV;~dI.
В:
    474420273.1510, Layer 4 to 5
                                  Message = WNE;2) }tkbXOW<3*~ulc</pre>
    475311106.3622, Layer 4 to 5
                                   Message = Xaiqy$, 4<EMU^Xnv~)19</pre>
В:
B:
   475993833.1234, Layer 4 to 5
                                   Message = YfxIc|8Rl(B[u1Ye~:Tn
   476399440.4534, Layer 4 to 5
                                   Message = Z(S~LwEp=i6bxZ(Z~LwE
B:
   476623463.4511, Layer 4 to 5
                                   Message = d:wV5rQ0mL+h2&cB[^<y</pre>
B:
B:
   476832526.6789, Layer 4 to 5
                                   Message = ]M=.|m^N>x}n O?0~]`P
   477685749.8232, Layer 4 to 5
                                   Message = ^`bdfhjlnprtvxz|~#^'
B:
   478185870.0269, Layer 4 to 5
                                   Message = r(;Ocv,?Sgz0DWk~4H
                                   Message = \'Lq8^%Jo6[#Hm4Y~Fk2
    479940771.9275, Layer 4 to 5
В:
   480673472.3685, Layer 4 to 5
                                   Message = aapI!X1hAwP) `8oH~W0g
B:
    481574676.8896, Layer 4 to 5
B:
                                   Message = bLb~iS=(pZExwbL6~iS=
                                   Message = dfZcRNJFB=952-3%~zvr
B:
   481816325.0442, Layer 4 to 5
B: 481880391.5482, Layer 4 to 5
                                   Message = dq~.dIVdq~.;IVdq~.;I
B: 482240948.1096, Layer 4 to 5
                                   Message = e&Ed%ec$Cb#Ba!A`~? }
                                   Message = f8i;l>fBrEuHxK{N~Q$T
B: 482395001.8780, Layer 4 to 5
B: 482871650.8142, Layer 4 to 5
                                   Message = gKxqU9\{gD(jN2tX<\sim cG+
B: 483172733.1866, Layer 4 to 5
                                   Message = h^SI>4*hi TJ?5+~tj
   483424335.4813, Layer 4 to 5
                                   Message = ipw \sim (x6 = EiSZbipw \sim (x6)
B:
   483717448.5609, Layer 4 to 5
                                   Message = d%=Vo*C[txja24Mf~9Rk
B:
   483978008.7811, Layer 4 to 5
                                   Message = k7b.X\%OyFp<k3^*T\sim KuB
   484668709.0355, Layer 4 to 5
                                   Message = lf(dB)[9uS1ml)3C~]:v
B:
B: 484806732.3999, Layer 4 to 5
                                   Message = m]L;+xhWG6&scmB1~n^M
   484961338.7028, Layer 4 to 5
                                   Message = nopgrstuvwxyz{n}~!#$
B: 485249895.4818, Layer 4 to 5
                                   Message = 0$6I[n#5HZm!4GYo~3FX
B: 485399980.1254, Layer 4 to 5
                                   Message = p6Z~EixSw=b(Lp6ZpEix
   485919637.5254, Layer 4 to 5
В:
                                   Message = dI~V.d;qI~V.2;qI~q.d
   486442263.5154, Layer 4 to 5
                                   Message = r[E.u H1xbK4{eN7~hr}:
                                   Message = snid YTOJE?:50+&~yts
B:
   487423580.4513, Layer 4 to 5
B:
   488242221.1063, Layer 4 to 5
                                   Message = t # x; HTamy (4AMYfr~-9F
B: 489212490.3177, Layer 4 to 5
                                   Message = uuSq10m-Ki)Ge%3a~>]z
B: 489292016.6582, Layer 4 to 5
                                   Message = vHvIxJyKzL\{M|N\}O\sim P!Q
                                   Message = wZ=wbE(iLxpS6wZ=~bE(
B: 489631104.3971, Layer 4 to 5
B: 490147845.1875, Layer 4 to 5
                                   Message = dmbVx?4) {peY2C7, ~sh]
B: 490622481.0675, Layer 4 to 5
                                   Message = y!(.4yAGMSY`flrx~'-3
   490851007.6723, Layer 4 to 5
                                   Message = z4Ld{5ze|6Nf}70g~8Ph
B:
   490990090.9731, Layer 4 to 5
                                   Message = {Gp;e0Y{NwCl7a,U~Js>
   491345180.5792, Layer 4 to 5
                                   Message = |Y6qN+fC|Z7rO,gD\sim[8s]
В:
B:
   492094914.1983, Layer 4 to 5
                                   Message = }1ZI7&raO},xgUD2~m[J
B:
   492495992.6785, Layer 4 to 5
                                   Message = \sim f \sim \sim \sim \sim \sim 3 \sim \sim \sim \sim
   492700037.1092, Layer 4 to 5
                                   Message = !3EVhy->Pbs'2J[m~2DU
B:
   492963622.3087, Layer 4 to 5
                                   Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
   493917387.9287, Layer 4 to 5
                                   Message = $X$d:oFzQ(]3h>sJ~U,a
B:
   494625084.0637, Layer 4 to 5
                                   Message = %kS%jR:#iQ9!hP8~gO7
В:
   494872653.7125, Layer 4 to 5
                                   Message = & wq&e XRLF?93-'~xrl
В:
B:
   495364769.6372, Layer 4 to 5
                                   Message = '2=IT'kv$x:FQ]hs\sim,7C
B: 495589813.1180, Layer 4 to 5
                                   Message = (Eb~=Z(6SpxLi(Eb~=Zw
                                   Message = dW(V'U\&)%S$R2Q!P~O}N
B: 495627322.7020, Layer 4 to 5
B: 495710337.2491, Layer 4 to 5
                                   Message = *fL.nP2r*6vX:z3>~aC%
B: 496137956.2722, Layer 4 to 5
                                   Message = +|pdWK>2&+k RF9-~rfY
B: 496170966.2626, Layer 4 to 5
                                   Message = ,16;AFKPUZ,ejoty~&+0
   496407565.9137, Layer 4 to 5
                                   Message = -DZq*AWn'=T-$:Qh~7Ne
В:
   496650626.4067, Layer 4 to 5
                                   Message = .V~Iq;d.V~Iq.d.V~Iq;
В:
   496930687.0239, Layer 4 to 5
                                   Message = xiE\sim Z6pL(b=wSxiE\sim Z6p
B:
   497294799.0723, Layer 4 to 5
                                   Message = d\{iVD1|jWE2\}2X03\sim1YG
B:
   497983925.3229, Layer 4 to 5
                                   Message = 10x.-,+*)('&%$#1~)|{
   498375024.3657, Layer 4 to 5
B:
                                   Message = 2CSdt'7HXiy, <M^n21BR</pre>
   499121885.9317, Layer 4 to 5
                                   Message = 3fw;^!Df*Ln2Tv3]~3e
                                   Message = 4h=qGzP&Yxc8lBuK~T4^
B: 499383945.2327, Layer 4 to 5
B: 501122973.4270, Layer 4 to 5
                                  Message = 5zbI0u]D+pW>&kR9~fM5
```

```
B:
    501454037.0468, Layer 4 to 5 Message = 6x(~wpibZSLE=6x(~wpi
                                          Message = d7LVaku!, 6AK2 jt~+5?
В:
     501772611.4904, Layer 4 to 5
     501853113.6130, Layer 4 to 5
                                          Message = 8T8.Jf$?[w5Qm+Gc~<Xt
                                          Message = 9g693a0^-Z*W'T$Q~N\{K
В:
    502194196.8308, Layer 4 to 5
   503144409.9155, Layer 4 to 5
                                          Message = :yZ;:[<{]=|^>} ?~`A!
B:
B: 504044848.2301, Layer 4 to 5
                                          Message = ;.~qd;I;.~qdVI;.~qdV
   504716039.7391, Layer 4 to 5
                                          Message = <fEIMQ<Y^bfjnr3z~%) -</pre>
   504738048.8176, Layer 4 to 5
                                          Message = =Si~6Lb=xEZp(=Si~6Lb
B:
    505281218.5643, Layer 4 to 5
                                          Message = dfxVGn7>(Ov2g0W~Ho8
    505422260.2126, Layer 4 to 5
                                          Message = ?xS.gBzU0?D|W2kF~Y4m
В:
     506337498.0500,
                         Layer 4 to 5
                                          Message = A-wdP<)s`LA%o[H4~kWD</pre>
B:
     506936199.0088, Layer 4 to 5
                                          Message = B?=;97531x-B)'%\#\sim|zx
B:
    508081418.1652,
B:
                       Layer 4 to 5
                                          Message = CRbq#2BQap!1CP`o~0?0
B: 508194932.0432, Layer 4 to 5
                                          Message = De(Ij-No2St7XD<^~Bc&</pre>
B: 508643023.5717, Layer 4 to 5
                                          Message = EwL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL) ))
B: 508819097.8157, Layer 4 to 5
                                          Message = dfpV<#gM3w^D2n3F~eK1</pre>
    510662040.3209, Layer 4 to 5
                                          Message = G>6.&(skcZRJB91)Gvnf
B:
    510708054.9176, Layer 4 to 5
                                          Message = HQZdmv!+4=GPYclu~H3<</pre>
В:
    511035190.3656, Layer 4 to 5
                                          Message = Id~; Vq.Id~; Vq.Id~; Iq
    511552794.6150, Layer 4 to 5
                                          Message = JvEq?1:q5b0]+W&R~MyJ
    512244047.0402, Layer 4 to 5
                                          Message = K+iI)gG'eE%cC#aA~ >|
B:
B:
   512420152.8607, Layer 4 to 5
                                          Message = LLx~pbSE6(wiZL=x~pbS
                                          Message = dPMVY]`cfilo2ux{~$'*
   513306356.6604, Layer 4 to 5
В:
   514501773.9493, Layer 4 to 5
                                          Message = NcwNCWl#7Lau, AUj~5J
                                          Message = Of=dORxAqxU{Dj3X~Gm5
В:
    515030904.3452, Layer 4 to 5
                                          Message = P*b;sP' 8pJ$[5mG~X2j
B:
    515371985.8095, Layer 4 to 5
    515415004.7245, Layer 4 to 5
В:
                                          Message = Q<(q]HQ|hS>*s J5~jUA
    515850158.5543, Layer 4 to 5
                                          Message = ROLIFC?R9630-*'$~{xu
B:
     516312832.6606, Layer 4 to 5
                                          Message = Sbp~x=LZSw(6ESbp~x=L
                                          Message = dt6Vv8Xx:Tz<2|> ~Aa#
B: 517002560.2374, Layer 4 to 5
B: 517443184.0680, Layer 4 to 5
                                          Message = U) Z. `3e8j=UCtHyM~R&W
B: 518664494.4000, Layer 4 to 5
                                          Message = V;~dI.qV;~dV.qV;~dI.
                                          Message = WNE; 2) } tkbXOW<3*~ulc</pre>
B: 519851215.0496, Layer 4 to 5
    520008769.4791, Layer 4 to 5
                                          Message = Xfiqy$, 4 < EMU^X3v^2) 19
B:
    520399281.2764, Layer 4 to 5
                                          Message = YsxIc|8Rl(B[u1Ye~:Tn
В:
    521032398.8741, Layer 4 to 5
                                          Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE
В:
    521124449.0806, Layer 4 to 5
                                          Message = d:wV5rQ0mL+h2&cB[^<y</pre>
    521652065.3272, Layer 4 to 5
                                          Message = ]M=.|m^N>x}n_0?0~] P
В:
                                          Message = ^`bdfhjlnprtvxz|~#^'
B:
   522735375.9478, Layer 4 to 5
   522784400.9934, Layer 4 to 5
                                          Message =
                                                       r(;Ocv,?Sgz0DWk~4H
                                          Message = \'\_\tag{4.8}Jo6[\#Hm4Y~Fk2
   523689151.8248, Layer 4 to 5
    523894194.0038, Layer 4 to 5
                                          Message = aapI!X1hAwP) `8oH~W0g
B:
    524070777.0834, Layer 4 to 5
                                          Message = bfb~iS=(pZExwb36~iS=
B:
    524808409.9420, Layer 4 to 5
                                          Message = d ZcRNJFB=952-)%~zvr
В:
    524883423.5489, Layer 4 to 5
                                          Message = dq~.dIVdq~.;IVdq~.;I
B:
    526137730.0885,
                       Layer 4 to 5
                                          Message = e&Ed%ec$Cb#Ba!A`~? }
B: 526767380.2298, Layer 4 to 5
                                          Message = f8i;l>fBrEuHxK{N~Q$T
B: 527122515.1289, Layer 4 to 5
                                          Message = gKxqU9\{gD(jN2tX<\sim cG+
B: 527747236.7099, Layer 4 to 5
                                          Message = h^SI>4*\}hi TJ?5+~tj`
B: 527776768.0531, Layer 4 to 5
                                          Message = ipw \sim (x6 = EiSZbipw \sim (x6)
    527856776.9278, Layer 4 to 5
                                          Message = d%=Vo*C[txja24Mf~9Rk
B:
    527932291.2024, Layer 4 to 5
                                          Message = kfb.X%OyFp<k3^3T~KuB
     528346898.2301, Layer 4 to 5
                                          Message = lJ(dB)[9uS1ml)eC~]:v
В:
    528927501.8164, Layer 4 to 5
                                          Message = m]L;+xhWG6&scmB1~n^M
B:
    529097142.1699, Layer 4 to 5
                                          Message = nopqrstuvwxyz{n}~!#$
   529361212.0860, Layer 4 to 5
B:
                                          Message = 0$6I[n#5HZm!4GYo~3FX
   529881891.3784, Layer 4 to 5
                                          Message = p6Z~EixSw=b(Lp6ZpEix
   530540053.6691, Layer 4 to 5
                                          Message = dI~V.d;qI~V.2;qI~q.d
    531151754.7514, Layer 4 to 5
                                          Message = r[E.u H1xbK4{eN7~hr}:
B:
B: 531311286.2739, Layer 4 to 5 Message = snid YTOJE?:50+&~yts
```

```
B:
   531427799.2602, Layer 4 to 5 Message = tfx; HTamy (4AMY3r~-9F
В:
    531582352.2255, Layer 4 to 5
                                 Message = uuSq10m-Ki)Ge%Ca~>]z
    532392168.9222, Layer 4 to 5
                                 Message = vHvIxJyKzL\{M|N\}O\sim P!Q
B:
   532586236.8324, Layer 4 to 5
                                  Message = wZ=wbE(iLxpS6wZ=~bE(
   532701773.2905, Layer 4 to 5
                                 Message = dmbVx?4) {peY2C7, ~sh]
B:
B: 532822362.0380, Layer 4 to 5
                                 Message = y!(.4yAGMSY`flrx~'-3
   533372002.0200, Layer 4 to 5
                                  Message = z4Ld{5ze|6Nf}70g~8Ph
   533707145.3791, Layer 4 to 5
                                 Message = {Gp;e0Y{NwCl7a,U~Js>
B:
   534484893.2898, Layer 4 to 5
                                 Message = |Y6qN+fC|Z7rO,gD\sim[8s]
   534540947.1948, Layer 4 to 5
                                  Message = }fZI7&raO},xgU32~m[J
В:
                                  534874003.3354, Layer 4 to 5
                                  Message = !3EVhy->Pbs'2J[m~2DU
    534880032.7492, Layer 4 to 5
B:
B:
   535168625.1486, Layer 4 to 5
                                 Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
B: 535623755.7912, Layer 4 to 5
                                  Message = X$d:oFzQ(]3h>sJ~U,a
B: 537583735.0034, Layer 4 to 5
                                 Message = %kS%jR:#iQ9!hP8~gO7
B: 538482405.4273, Layer 4 to 5
                                 B: 538807017.0859, Layer 4 to 5
                                 Message = '2=IT'kv$x:FQ]hs\sim,7C
   539574133.7467, Layer 4 to 5
                                 Message = (Eb~=Z(6SpxLi(Eb~=Zw
В:
   541176072.8389, Layer 4 to 5
                                 Message = df(V'U&)%S$R2Q3P~O}N
   541299632.2831, Layer 4 to 5
                                 Message = *jL.nP2r*6vX:z]>~aC%
   541517173.9574, Layer 4 to 5
                                 Message = +|pdWK>2&+k RF9-~rfY
B:
B:
   541841808.4343, Layer 4 to 5
                                 Message = ,16;AFKPUZ,ejoty~&+0
   542059352.0557, Layer 4 to 5
                                 Message = -DZq*AWn'=T-$:Qh~7Ne
В:
   542275449.6211, Layer 4 to 5
                                 Message = .V~Iq;d.V~Iq.d.V~Iq;
   543058201.3478, Layer 4 to 5
                                 Message = xiE~Z6pL(b=wSxiE~Z6p
B:
   543388291.4979, Layer 4 to 5
                                 Message = d{iVD1|jWE2}2X03\sim1YG
   543799497.2273, Layer 4 to 5
                                 Message = 10x.-,+*) ('&%$\$1~}|{
В:
   544788776.9418, Layer 4 to 5
                                 Message = 2fSdt'7HXiy, <M3n21BR</pre>
B:
   545438385.9555, Layer 4 to 5
                                 Message = 3Uw;^!Df*Ln2Tv:]~3e)
                                 Message = 4h=qGzP&Yxc8lBuK~T4^
B: 545498912.4326, Layer 4 to 5
B: 545693482.5854, Layer 4 to 5
                                 Message = 5zbIOu]D+pW>&kR9~fM5
B: 546556696.7731, Layer 4 to 5
                                 Message = 6x(~wpibZSLE=6x(~wpi
B: 546638292.9381, Layer 4 to 5
                                 Message = d7LVaku!, 6AK2\jt~+5?
B: 547006361.2530, Layer 4 to 5
                                 Message = 8T8.Jf?[w5Qm+Gc~<Xt
   547390985.1474, Layer 4 to 5
                                 Message = 9g693a0^-Z*W'T$Q~N\{K
   548581290.4964, Layer 4 to 5
                                 Message = :yZ;:[<{]=|^>} ?~`A!
   548663346.0535, Layer 4 to 5
B:
                                  Message = ;f~qd;I;.~qdVI3.~qdV
   549968161.3507, Layer 4 to 5
                                 Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
В:
B:
   550977490.5669, Layer 4 to 5
                                 Message = =Si~6Lb=xEZp(=Si~6Lb
   551088531.5127, Layer 4 to 5
                                  Message = dfxV}Gn7>(Ov2g0W~Ho8
   551599222.9738, Layer 4 to 5
                                  Message = ?xS.gBzU0?D|W2kF~Y4m
                                  Message = A-wdP<)s`LA%o[H4~kWD</pre>
   552019362.5424, Layer 4 to 5
   553389226.4313, Layer 4 to 5
                                  Message = B?=;97531x-B)'%\#~|zx
B:
   553620347.5041, Layer 4 to 5
В:
                                  Message = CRbq#2BQap!1CP`o~0?0
   553801423.5284, Layer 4 to 5
                                  Message = De(Ij-No2St7XD<^~Bc&</pre>
B:
    554449118.3168, Layer 4 to 5
                                  Message = EfL~S(Zxb6i=pEEL~S(Z
                                  Message = d,pV<\#gM3w^D2nTF\sim eK1
B: 554677689.5696, Layer 4 to 5
B: 555611566.7965, Layer 4 to 5
                                  Message = G>6.&(skcZRJB91)Gvnf
B: 557697749.0796, Layer 4 to 5
                                  Message = HQZdmv!+4=GPYclu~H3<</pre>
B: 558406911.0270, Layer 4 to 5
                                 Message = Id~; Vq.Id~; Vq.Id~; Iq
   558510449.8553, Layer 4 to 5
                                 Message = JvEq?1:g5b0]+W&R~MyJ
B:
   558733555.4956, Layer 4 to 5
                                  Message = K+iI)gG'eE%cC#aA~ >|
   559059630.2813, Layer 4 to 5
                                  Message = LLx~pbSE6(wiZL=x~pbS
В:
   561849333.4477, Layer 4 to 5
                                  Message = dPMVY]`cfilo2ux{~$'*
                                  Message = NfwNCWl#7Lau,A3j~5J
B:
   562048872.3001, Layer 4 to 5
B:
   562148948.3641, Layer 4 to 5
                                  Message = Ou=dORxAgxU{Dj2X~Gm5
   562337501.4990, Layer 4 to 5
                                  Message = P*b;sP' 8pJ$[5mG~X2j
                                  Message = Q<(q]HQ|hS>*s J5~jUA
   562640033.5972, Layer 4 to 5
B: 562975166.8649, Layer 4 to 5
                                  Message = ROLIFC?R9630-*'$~{xu
B: 563354740.2375, Layer 4 to 5 Message = Sbp~x=LZSw(6ESbp~x=L
```

```
B:
      564276015.7795, Layer 4 to 5 Message = dt6Vv8Xx:Tz<2|> ~Aa#
                                                    Message = U)Z.~3e8j=UCtHyM~R&W
В:
      564705107.5363, Layer 4 to 5
      564771139.0680, Layer 4 to 5
                                                    Message = V;~dI.qV;~dV.qV;~dI.
B:
     565696297.7328, Layer 4 to 5
                                                    Message = WfE;2) }tkbXOW<3*~ulc</pre>
    565888839.8045, Layer 4 to 5
                                                    Message = Xaiqy$, 4<EMU^Xnv~)19</pre>
B:
B: 565982366.0587, Layer 4 to 5
                                                    Message = YsxIc|8Rl(B[u1Ye~:Tn
B:
    566250925.4398, Layer 4 to 5
                                                    Message = Z(S~LwEp=i6bxZ(Z~LwE
                                                    Message = d:wV5rQ0mL+h2&cB[^<y</pre>
    566340968.6923, Layer 4 to 5
B:
    566556060.1360, Layer 4 to 5
                                                    Message = ]M=.|m^N>x}n O?0~]`P
      567383758.1115, Layer 4 to 5
                                                     Message = ^`bdfhjlnprtvxz|~#^'
В:
      568673576.8569, Layer 4 to 5
                                                    Message = _r(;Ocv,?Sgz0DWk~4H_Message = __r(;Ocv,?Sgz0DWk~4H_Message = __r(;Ocv,?Sgz0DWk~4H
В:
      568951678.3606, Layer 4 to 5
B:
B:
      569638376.1699, Layer 4 to 5
                                                     Message = aapI!X1hAwP) `83H~W0g
B: 571095823.6079, Layer 4 to 5
                                                     Message = bLb~iS=(pZExwbL6~iS=
B: 571283850.3513, Layer 4 to 5
                                                     Message = d ZcRNJFB=952-)%~zvr
                                                    Message = dq~.dIVdq~.;IVdq~.;I
B: 571542455.2960, Layer 4 to 5
B: 571868109.5811, Layer 4 to 5
                                                    Message = e&Ed%ec$Cb#Ba!A`~? }
     571916641.2930, Layer 4 to 5
                                                    Message = f8i;1>fBrEuHxK\{N\sim Q\$T\}
В:
     572208222.6849, Layer 4 to 5
                                                    Message = gKxqU9\{gD(jN2tX<\sim cG+
      573062953.3397, Layer 4 to 5
                                                    Message = h^SI>4*hi TJ?5+~tj
     573687116.1300, Layer 4 to 5
                                                    Message = ipw \sim (x6 = EiSZbipw \sim (x6)
B:
    574247254.6381, Layer 4 to 5
                                                    Message = df=Vo*C[txja243f~9Rk]
B:
    575152508.3434, Layer 4 to 5
                                                    Message = k7b.X%OyFp<k3^*T~KuB
В:
    576081793.8393, Layer 4 to 5
                                                    Message = lJ(dB)[9uS1ml)eC~]:v
     576880581.7058, Layer 4 to 5
                                                    Message = m]L;+xhWG6&scmB1~n^M
B:
     577833901.6486, Layer 4 to 5
                                                    Message = nopqrstuvwxyz{n}~!#$
      578474537.6236, Layer 4 to 5
B:
                                                    Message = 0$6I[n#5HZm!4GYo~3FX
      578517076.7070, Layer 4 to 5
                                                    Message = p6Z~EixSw=b(Lp6ZpEix
B:
      578768158.8343, Layer 4 to 5
                                                    Message = dI~V.d;qI~V.2;qI~q.d
B: 583278804.4967, Layer 4 to 5
                                                    Message = r[E.u H1xbK4{eN7~hr:
                                                    Message = sfid YTOJE?:503&~yts
B: 584382013.1178, Layer 4 to 5
B: 584570576.4296, Layer 4 to 5
                                                    Message = t # x; HTamy (4AMYfr~-9F
                                                    Message = uuSq10m-Ki)Ge%Ca~>]z
B: 585384735.8359, Layer 4 to 5
B: 585924392.6954, Layer 4 to 5
                                                    Message = vHvIxJyKzL\{M|N\}O\sim P!Q
    586327504.6482, Layer 4 to 5
                                                     Message = wZ=wbE(iLxpS6wZ=\sim bE(
В:
      586464594.1500, Layer 4 to 5
                                                     Message = dmbVx?4) {peY2C7, ~sh]
     586563596.3804, Layer 4 to 5
                                                     Message = y!(.4yAGMSY`flrx~'-3
B:
     586863156.2635, Layer 4 to 5
                                                     Message = z4Ld{5ze|6Nf}70g~8Ph
В:
B: 587850854.6767, Layer 4 to 5
                                                    Message = {Gp;e0Y{NwCl7a,U~Js>
B: 588195464.7953, Layer 4 to 5
                                                     Message = |f6qN+fC|Z7rO,3D\sim[8s]
    588790648.8740, Layer 4 to 5
                                                     Message = }lZI7&raO},xgUD2~m[J
B:
    589064223.5784, Layer 4 to 5
                                                     589384397.4111, Layer 4 to 5
                                                     Message = !3EVhy->Pbs'2J[m~2DU
B:
      589423394.6352, Layer 4 to 5
В:
                                                     Message = \#i.Qt9]!Eh-Ps8[~Dg,
      590016121.1094, Layer 4 to 5
                                                     Message = X$d:oFzQ(]3h>sJ~U,a
B:
      590688746.3974, Layer 4 to 5
                                                     Message = %kS%$jR:#iQ9!hP8~gO7
                                                     Message = &}wq&e XRLF?93-'~xrl
B: 590698256.5791, Layer 4 to 5
                                                     Message = '2=IT'kv$x:FQ]hs\sim,7C
B: 592397646.0656, Layer 4 to 5
B: 592489678.2540, Layer 4 to 5
                                                     Message = (fb\sim=Z(6SpxLi(3b\sim=Zw))
                                                    Message = dW(V'U\&)%S$R2Q!P~O}N
B: 593296454.0654, Layer 4 to 5
    593519976.3845, Layer 4 to 5
                                                    Message = *jL.nP2r*6vX:z]>~aC%
В:
      593708073.4898, Layer 4 to 5
                                                     Message = +|pdWK>2&+k RF9-~rfY
      594232225.6124, Layer 4 to 5
                                                     Message = ,16;AFKPUZ,ejoty~&+0
В:
     594380757.9597, Layer 4 to 5
                                                     Message = -DZq*AWn'=T-$:Qh~7Ne
B:
     595508066.3518, Layer 4 to 5
                                                     Message = .V~Iq;d.V~Iq.d.V~Iq;
B:
    595789265.8221, Layer 4 to 5
                                                     Message = xiE~Z6pL(b=wSxiE~Z6p
    595891346.2042, Layer 4 to 5
B:
                                                     Message = d\{iVD1|jWE2\}2X03\sim1YG
    596434543.8865, Layer 4 to 5
                                                     Message = 1fx.-,+*) ('&%$31~}|{
B: 596584675.8374, Layer 4 to 5
                                                     Message = 2CSdt'7HXiy,<M^n21BR</pre>
B: 597205872.5208, Layer 4 to 5
                                                    Message = 3Uw;^!Df*Ln2Tv:]~3e)
```

```
B:
    597309430.8202, Layer 4 to 5 Message = 4h=qGzP&Yxc8lBuK~T4^
В:
    597513999.0176, Layer 4 to 5
                                   Message = 5zbIOu]D+pW>&kR9~fM5
    598030675.8232, Layer 4 to 5
                                   Message = 6x(~wpibZSLE=6x(~wpi
B:
    598674878.8809, Layer 4 to 5
                                   Message = d7LVaku!,6AK2`jt~+5?
   598700903.9063, Layer 4 to 5
                                   Message = 8T8.Jf$?[w5Qm+Gc~<Xt
B:
   599129662.0752, Layer 4 to 5
                                   Message = 9g693a0^-Z*W'T$Q~N\{K
B:
   599951881.0193, Layer 4 to 5
                                   Message = :fZ;:[<{]=|^>}3?~^A!
   600305980.6989, Layer 4 to 5
                                   Message = ;.~qd;I;.~qdVI;.~qdV
B:
   600886590.1315, Layer 4 to 5
                                   Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
                    Layer 4 to 5
                                   Message = =Si~6Lb=xEZp(=Si~6Lb
   601046166.3474,
В:
                    Layer 4 to 5
B:
   601418251.4927,
                                   Message = dfxV}Gn7>(Ov2g0W~Ho8
                   Layer 4 to 5
                                   Message = ?xS.gBzU0?D|W2kF~Y4m
    601806317.4809,
B:
B:
   602562143.9841,
                   Layer 4 to 5
                                   Message = A-wdP<)s`LA%o[H4~kWD</pre>
B: 603267818.2284, Layer 4 to 5
                                   Message = B?=;97531x-B)'% * ~|zx
B: 604991128.8376, Layer 4 to 5
                                   Message = CRbq#2BQap!1CP`o~0?0
B: 605680387.6718, Layer 4 to 5
                                   Message = Df(Ij-No2St7XD3^~Bc&
B: 606091024.8258, Layer 4 to 5
                                   Message = EwL~S(Zxb6i=pEEL~S(Z
   606387625.0116, Layer 4 to 5
                                   Message = d,pV<\#gM3w^D2nTF\sim eK1
В:
   607804413.1634, Layer 4 to 5
B:
                                   Message = G>6.&(skcZRJB91)Gvnf
   608009018.9268, Layer 4 to 5
                                   Message = HQZdmv!+4=GPYclu~H3<</pre>
   608770244.2203, Layer 4 to 5
                                   Message = Id~; Vq.Id~; Vq.Id~; Iq
B:
   609365840.9289, Layer 4 to 5
B:
                                   Message = JvEq?l:g5b0]+W&R~MyJ
B: 610089544.7409, Layer 4 to 5
                                   Message = K+iI)gG'eE%cC#aA~ >|
   611043338.8252, Layer 4 to 5
                                   Message = LLx~pbSE6(wiZL=x~pbS
В:
   611450479.5542, Layer 4 to 5
                                   Message = dfMVY] `cfilo2u3{~$'*
B:
   611796134.1206, Layer 4 to 5
                                   Message = NcwNCWl#7Lau,AUj~5J
   612549398.3572, Layer 4 to 5
В:
                                   Message = Ou=dORxAgxU{Dj2X~Gm5
    613581113.9327, Layer 4 to 5
                                   Message = P*b;sP' 8pJ$[5mG~X2j
                   Layer 4 to 5
B:
   613947758.8447,
                                   Message = Q<(q]HQ|hS>*s J5~jUA
                                   Message = ROLIFC?R9630-\overline{*}'$~{xu
B: 614300408.2261, Layer 4 to 5
B: 614542992.6487, Layer 4 to 5
                                   Message = Sbp \sim x = LZSw (6ESbp \sim x = L
B: 614779575.4645, Layer 4 to 5
                                   Message = dt6Vv8Xx:Tz<2|> ~Aa#
                                   Message = U) Z. `3e8j=UCtHyM~R&W
B: 614813078.2236, Layer 4 to 5
B: 616387462.4944, Layer 4 to 5
                                   Message = Vf~dI.qV;~dV.q3;~dI.
   616730567.2122, Layer 4 to 5
                                   Message = WNE;2) } tkbXOW<3*~ulc</pre>
В:
   617677866.9771, Layer 4 to 5
                                   Message = Xaiqy$, 4<EMU^Xnv~)19</pre>
B:
   618101430.3468, Layer 4 to 5
                                   Message = YsxIc|8Rl(B[u1Ye~:Tn
                                   Message = Z(S~LwEp=i6bxZ(Z~LwE
   618291034.4095, Layer 4 to 5
В:
B:
   618456067.3212, Layer 4 to 5
                                   Message = d:wV5rQ0mL+h2&cB[^<y</pre>
B:
   618673637.6100, Layer 4 to 5
                                   Message = ]M=.|m^N>x}n O?0~]`P
   621130660.0923, Layer 4 to 5
                                   Message = ^`bdfhjlnprtvxz|~#^'
   621322730.1103, Layer 4 to 5
                                   Message = r(;Ocv,?Sgz0DWk~4H
B:
                                   Message = \flq8^\%Jo6[\#Hm3Y\~Fk2
B:
   622507583.1879, Layer 4 to 5
                    Layer 4 to 5
B:
   623146788.1004,
                                   Message = aapI!X1hAwP) `8oH~W0g
    623676898.0380,
                    Layer 4 to 5
                                   Message = bLb~iS=(pZExwbL6~iS=
B:
   624652137.6503,
                   Layer 4 to 5
                                   Message = d_ZcRNJFB=952-)%~zvr
B: 627253325.0258,
                   Layer 4 to 5
                                   Message = dq~.dIVdq~.;IVdq~.;I
B: 627397869.7380, Layer 4 to 5
                                   Message = e&Ed%ec$Cb#Ba!A`~? }
B: 628537161.0725, Layer 4 to 5
                                   Message = f8i;l>fBrEuHxK{N~Q$T
B: 630217063.8073, Layer 4 to 5
                                   Message = gKxqU9\{gD(jN2tX<\sim cG+
                                   Message = h^SI>4*hi TJ?5+~tj
B: 630693764.6180, Layer 4 to 5
   630731318.3624, Layer 4 to 5
                                   Message = ifw \sim (x6 = EiSZbi3w \sim (x6)
B:
    632080069.1041, Layer 4 to 5
                                   Message = d\%=Vo*C[txja24Mf~9Rk]
В:
   633053437.9131, Layer 4 to 5
                                   Message = k7b.X\%OyFp< k3^*T\sim KuB
B:
   634029136.6112, Layer 4 to 5
                                   Message = lJ(dB)[9uS1ml)eC~]:v
   635555060.1267, Layer 4 to 5
B:
                                   Message = m]L;+xhWG6&scmB1~n^M
   635633098.0440, Layer 4 to 5
B:
                                   Message = nopqrstuvwxyz{n}~!#$
   636790359.4183, Layer 4 to 5
                                   Message = 0$6I[n#5HZm!4GYo~3FX
    637776719.4330, Layer 4 to 5
                                   Message = p6Z~EixSw=b(Lp6ZpEix
B:
B: 638012269.9276, Layer 4 to 5
                                   Message = dI~V.d;qI~V.2;qI~q.d
```

```
B: 639193033.2972, Layer 4 to 5 Message = rfE.u H1xbK4{e37~hr:
                                          Message = snid YTOJE?:50+&~yts
В:
    641393978.5339, Layer 4 to 5
    642348290.4642, Layer 4 to 5
                                          Message = t # x; HTamy (4AMYfr~-9F
B:
    642557385.9213, Layer 4 to 5
                                          Message = uuSq10m-Ki)Ge%Ca~>]z
   643070062.3042, Layer 4 to 5
                                          Message = vHvIxJyKzL\{M|N\}O\sim P!Q
B:
B: 643105580.4343, Layer 4 to 5
                                          Message = wZ=wbE(iLxpS6wZ=\sim bE(
   643183099.1208, Layer 4 to 5
                                          Message = dmbVx?4) {peY2C7, ~sh]
   643940723.0718, Layer 4 to 5
                                          Message = y!(.4yAGMSY`flrx~'-3
    644287361.0309, Layer 4 to 5
                                          Message = z4Ld{5ze|6Nf}70g~8Ph
В:
    644496883.0936, Layer 4 to 5
                                          Message = {fp;e0Y{NwCl7a3U~Js>
В:
    644665440.3441, Layer 4 to 5
В:
                                          Message = |Y6qN+fC|Z7rO, qD\sim[8s]
    645122614.4113, Layer 4 to 5
B:
                                          Message = }lZI7&raO},xgUD2~m[J
                                          B: 645670783.8440, Layer 4 to 5
B: 645985354.0521, Layer 4 to 5
                                          Message = !3EVhy->Pbs'2J[m~2DU
B: 646316406.4717, Layer 4 to 5
                                          Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
B: 646742016.1414, Layer 4 to 5
                                          Message = $X$d:oFzQ(]3h>sJ~U,a
B: 647441157.5072, Layer 4 to 5
                                          Message = %kS%$jR:#iQ9!hP8~g07
   647636194.5303, Layer 4 to 5
                                          Message = &}wq&e XRLF?93-'~xrl
В:
    648495374.7757, Layer 4 to 5
                                          Message = 'f=IT'kv$x:FQ]3s\sim,7C
B:
    648891488.6707, Layer 4 to 5
                                          Message = (Eb \sim = Z (6SpxLi(Eb \sim = Zw))
    649036507.6005, Layer 4 to 5
                                          Message = dW(V'U\&)%S$R2Q!P~O}N
B:
   649126564.2359, Layer 4 to 5
                                          Message = *jL.nP2r*6vX:z]>~aC%
B:
B: 649704674.4860, Layer 4 to 5
                                          Message = +|pdWK>2&+k RF9-~rfY
   650597425.0972, Layer 4 to 5
                                          Message = ,16;AFKPUZ,ejoty~&+0
В:
   650670033.8967, Layer 4 to 5
                                          Message = -DZq*AWn'=T-$:Qh~7Ne
B:
   652107381.3959, Layer 4 to 5
                                          Message = .V~Iq;d.V~Iq.d.V~Iq;
    652939547.1934, Layer 4 to 5
B:
                                          Message = xiE~Z6pL(b=wSxiE~Z6p
    653475744.5929, Layer 4 to 5
                                          Message = dfiVD1|jWE2}2X03~1YG
B:
    653579306.5358, Layer 4 to 5
                                          Message = 10x.-,+*) ('&%$\$1~}|{
B: 654041946.7744, Layer 4 to 5
                                          Message = 2CSdt'7HXiy, <M^n21BR</pre>
B: 654232522.8179, Layer 4 to 5
                                          Message = 3Uw;^!Df*Ln2Tv:]~3e)
B: 655588243.7753, Layer 4 to 5
                                          Message = 4h=qGzP&Yxc8lBuK~T4^
                                         Message = 5zbI0u]D+pW>&kR9~fM5
B: 656202905.3823, Layer 4 to 5
                                          Message = 6x(~wpibZSLE=6x(~wpi
B: 656436487.3541, Layer 4 to 5
B: 656500527.2341, Layer 4 to 5
                                          Message = d7LVaku!,6AK2`jt~+5?
    656716093.0613, Layer 4 to 5
                                          Message = 8T8.Jf$?[w5Qm+Gc~<Xt
B:
    656930640.3314, Layer 4 to 5
                                          Message = 9f693a0^-Z*W'T3Q~N\{K
    657007656.2612, Layer 4 to 5
                                          Message = :yZ;:[<{]=|^>}_?~`A!
В:
B:
   658076481.0405, Layer 4 to 5
                                          Message = ;.~qd;I;.~qdVI;.~qdV
   659027268.6025, Layer 4 to 5
                                          Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
   659150780.0706, Layer 4 to 5
                                          Message = =Si \sim 6Lb = xEZp (=Si \sim 6Lb)
                                          Message = dfxV}Gn7>(Ov2q0W~Ho8
    659202824.5288, Layer 4 to 5
B:
    659717500.7850, Layer 4 to 5
                                          Message = ?xS.gBzU0?D|W2kF~Y4m
B:
    660684686.9933, Layer 4 to 5
                                          Message = A-wdP<)s`LA%o[H4~kWD</pre>
В:
    660901217.1949, Layer 4 to 5
                                          Message = B?=;97531x-B)'%\#\sim|zx
B:
    660925248.4462, Layer 4 to 5
                                          Message = Cfbq#2BQap!1CP3o~0?0
B: 661401874.3079, Layer 4 to 5
                                          Message = De(Ij-No2St7XD<^~Bc&</pre>
B: 661657951.8134, Layer 4 to 5
                                          Message = EwL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL) ))
B: 662831714.8765, Layer 4 to 5
                                          Message = d,pV<#gM3w^D2nTF~eK1</pre>
B: 663691960.1159, Layer 4 to 5
                                          Message = G>6.&(skcZRJB91)Gvnf
B: 664136555.1524, Layer 4 to 5
                                          Message = HQZdmv!+4=GPYclu~H3<</pre>
    664197071.1493, Layer 4 to 5
                                          Message = Id~; Vq.Id~; Vq.Id~; Iq
В:
    664287106.4284, Layer 4 to 5
                                          Message = JvEq?l:q5b0]+W&R~MyJ
В:
    664542710.8631, Layer 4 to 5
                                          Message = K+iI) gG'eE%cC#aA~ >|
B:
    664698730.1861, Layer 4 to 5
                                          Message = LLx~pbSE6(wiZL3x~pbS
B:
   665249910.0414, Layer 4 to 5
                                          Message = dPMVY] `cfilo2ux{~$'*
   665646014.4761, Layer 4 to 5
B:
                                          Message = NcwNCWl#7Lau, AUj~5J
B: 666286128.8943, Layer 4 to 5
                                          Message = Ou=dORxAgxU{Dj2X~Gm5
B: 666794721.7343, Layer 4 to 5
                                          Message = P*b;sP' 8pJ$[5mG~X2j
B: 667214340.8390, Layer 4 to 5 Message = Q<(q]HQ|hS>*s J5~jUA
```

```
B: 668135972.0677, Layer 4 to 5 Message = ROLIFC?R9630-*'$~{xu}
В:
   668241513.6352, Layer 4 to 5
                                  Message = Sbp~x=LZSw(6ESbp~x=L
    668647094.8431, Layer 4 to 5
                                   Message = dt6Vv8Xx:Tz<2|> ~Aa#
В:
   668819167.6807, Layer 4 to 5
В:
                                   Message = UfZ.`3e8j=UCtH3M~R&W
   669416358.6689, Layer 4 to 5
                                   Message = V;~dI.qV;~dV.qV;~dI.
B:
B: 669623939.4811, Layer 4 to 5
                                   Message = WNE;2) }tkbXOW<3*~ulc</pre>
B:
   669950545.4929, Layer 4 to 5
                                   Message = Xaiqy$, 4<EMU^Xnv~)19</pre>
                                   Message = YsxIc|8Rl(B[u1Ye~:Tn
   670406169.2473, Layer 4 to 5
   670853793.6991, Layer 4 to 5
                                  Message = Z(S~LwEp=i6bxZ(Z~LwE
В:
   671992051.5682, Layer 4 to 5
                                   Message = d:wV5rQ0mL+h2&cB[^<y</pre>
В:
   672356676.6258,
                    Layer 4 to 5
В:
                                   Message = ]M=.|m^N>x\}n O?0~]`P
                                   Message = ^`bdfhjlnprtvxz|~#^'
    672602238.3330, Layer 4 to 5
B:
                                  Message = f(;Ocv,?Sgz0D3k~4H_Message = `'Lq8^%Jo6[#Hm4Y~Fk2]
B: 672811822.4195,
                   Layer 4 to 5
B: 672961362.4763, Layer 4 to 5
B: 673231443.3149, Layer 4 to 5
                                   Message = aapI!X1hAwP) `8oH~W0g
B: 673429045.7317, Layer 4 to 5
                                  Message = bLb~iS=(pZExwbL6~iS=
B: 674326177.1518, Layer 4 to 5
                                  Message = d ZcRNJFB=952-)%~zvr
B: 674708754.8639, Layer 4 to 5
                                  Message = \overline{q}.dIVdq~.;IVdq~.;I
   674878816.1760, Layer 4 to 5
B:
                                   Message = e&Ed%ec$Cb#Ba!A`~? }
   674883829.3447, Layer 4 to 5
                                   Message = f8i;l>fBrEuHxK{N~Q$T
   675442057.3352, Layer 4 to 5
                                   Message = gKxqU9\{gD(jN2tX<\sim cG+
B:
   675473585.0112, Layer 4 to 5
                                   Message = hfSI>4*}hi TJ?3+~tj`
B:
B: 676182736.1160, Layer 4 to 5
                                   Message = ipw \sim (x6 = EiSZbipw \sim (x6)
   676852882.3423, Layer 4 to 5
                                   Message = d\%=Vo*C[txja24Mf~9Rk]
В:
   677201958.5744, Layer 4 to 5
                                   Message = k7b.X%OyFp<k3^*T~KuB
B:
   679203556.9327, Layer 4 to 5
                                   Message = lJ(dB)[9uS1ml)eC~]:v
   679563638.8737, Layer 4 to 5
В:
                                   Message = m]L;+xhWG6&scmB1~n^M
    681074924.1396, Layer 4 to 5
                                  Message = nopqrstuvwxyz{n}~!#$
B:
    682061213.6963, Layer 4 to 5
                                   Message = 0$6I[n#5HZm!4GYo~3FX
B: 682280770.1960, Layer 4 to 5
                                  Message = p6Z~EixSw=b(Lp6ZpEix
B: 682745447.5472, Layer 4 to 5
                                  Message = df \sim V.d; qI \sim V.2; 3I \sim q.d
B: 684743102.7596, Layer 4 to 5
                                  Message = r[E.u H1xbK4{eN7~hr}:
                                  Message = snid YTOJE?:50+&~yts
B: 685006205.4685, Layer 4 to 5
B: 685079733.0578, Layer 4 to 5
                                  Message = t # x; HTamy (4AMYfr~-9F
B: 685727869.4817, Layer 4 to 5
                                   Message = uuSq10m-Ki)Ge%Ca~>]z
   685884417.6088, Layer 4 to 5
                                   Message = vHvIxJyKzL\{M|N\}O\sim P!Q
B:
   686563664.3666, Layer 4 to 5
                                   Message = wZ=wbE(iLxpS6wZ=\sim bE(
   686829204.5687, Layer 4 to 5
                                   Message = dmbVx?4) {peY2C7, ~sh]
В:
                                   Message = y!(.4yAGMSY`flrx~'-3
B: 689170666.5295, Layer 4 to 5
B: 690029886.1485, Layer 4 to 5
                                   Message = zfLd{5ze|6Nf}73g~8Ph
B: 690101892.0689, Layer 4 to 5
                                   Message = {Gp;e0Y{NwCl7a,U~Js>
   690501573.8974, Layer 4 to 5
                                   Message = |Y6qN+fC|Z7rO, qD\sim[8s]
B:
B:
   690696624.5082, Layer 4 to 5
                                   Message = }lZI7&raO},xgUD2~m[J
   693049728.6803, Layer 4 to 5
В:
                                   693697439.1740, Layer 4 to 5
                                   Message = !3EVhy->Pbs'2J[m~2DU
B:
   693779940.9474, Layer 4 to 5
                                   Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
B: 694076534.7371, Layer 4 to 5
                                   Message = $X$d:oFzQ(]3h>sJ~U,a
B: 694978153.3708, Layer 4 to 5
                                   Message = %kS%jR:#iQ9!hP8~gO7
B: 696149957.5022, Layer 4 to 5
                                   Message = &fwq&e XRLF?933'~xrl
                                   Message = '2=IT'kv$x:FQ]hs\sim,7C
B: 696401488.4058, Layer 4 to 5
   697336784.3446, Layer 4 to 5
                                   Message = (Eb~=Z(6SpxLi(Eb~=Zw
В:
   698705636.9189, Layer 4 to 5
                                   Message = dW(V'U\&)%S$R2Q!P~O}N
В:
    699007713.7202, Layer 4 to 5
                                   Message = *jL.nP2r*6vX:z]>~aC%
В:
   699511875.1926, Layer 4 to 5
                                   Message = +|pdWK>2&+k RF9-~rfY
B:
    700004003.3987, Layer 4 to 5
                                   Message = ,16;AFKPUZ,ejoty~&+0
B:
    701333414.9216, Layer 4 to 5
                                   Message = -DZq*AWn'=T-$:Qh~7Ne
   701498954.1718, Layer 4 to 5
В:
                                   Message = .V~Iq;d.V~Iq.d.V~Iq;
   701853604.1559, Layer 4 to 5
                                   Message = xfE~Z6pL(b=wSx3E~Z6p
                                   Message = d{iVD1|jWE2}2X03\sim1YG
B:
    702185637.8656, Layer 4 to 5
    702299237.4495, Layer 4 to 5
                                  Message = 10x.-,+*) ('&%$\$1~}|{
```

```
B: 703319663.9845, Layer 4 to 5 Message = 2CSdt'7HXiy, <M^n21BR
    703366680.7764, Layer 4 to 5 Message = 3Uw;^!Df*Ln2Tv:]~3e)
В:
    703516222.1164, Layer 4 to 5
                                  Message = 4h=qGzP&Yxc8lBuK~T4^
    703914840.9173, Layer 4 to 5
B:
                                  Message = 5zbI0u]D+pW>&kR9~fM5
   704062373.8334, Layer 4 to 5 Message = 6x(~wpibZSLE=6x(~wpi
B:
   704199435.5896, Layer 4 to 5 Message = d7LVaku!, 6AK2 jt~+5?
B:
B:
   704255470.7515, Layer 4 to 5
                                  Message = 8f8.Jf?[w5Qm+3c~<Xt
   705286781.4774, Layer 4 to 5
                                  Message = 9g693a0^-Z*W'T$Q~N\{K
B:
   706277115.8279, Layer 4 to 5
                                  Message = :yZ;: [<{]=|^>} ?~ `A!
    707301395.5232, Layer 4 to 5
                                  Message = ;.~qd;I;.~qdVI;.~qdV
B:
   707853032.2133, Layer 4 to 5
                                  Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
B:
    708147091.4972, Layer 4 to 5
                                  Message = =Si~6Lb=xEZp(=Si~6Lb
B:
B:
    708500190.3463, Layer 4 to 5
                                  Message = dfxV}Gn7>(Ov2g0W~Ho8)
B:
   709091847.2893, Layer 4 to 5
                                  Message = ?xS.gBzU0?D|W2kF~Y4m
B: 710029597.4910, Layer 4 to 5
                                  Message = A-wdP<)s`LA%o[H4~kWD
B: 710187150.9094, Layer 4 to 5
                                  Message = Bf=;97531x-B)'3#~|zx
   711078876.9856, Layer 4 to 5 Message = CRbq#2BQap!1CP`o~0?0
B:
   711729625.9726, Layer 4 to 5 Message = De(Ij-No2St7XD<^~Bc&
B:
    713305176.0511, Layer 4 to 5 Message = EwL~S(Zxb6i=pEEL~S(Z
B:
    713877779.4555, Layer 4 to 5
                                  Message = d_pV<\#gM3w^D2nTF\sim eK1
B:
    714785031.0839, Layer 4 to 5
                                  Message = G>6.&{skcZRJB91)Gvnf
   715348614.3032, Layer 4 to 5
B:
                                  Message = HQZdmv!+4=GPYclu~H3
   715442750.9953, Layer 4 to 5 Message = Id~; Vq.Id~; Vq.Id~; Iq
В:
   715591798.6203, Layer 4 to 5
                                  Message = JvEq?l:q5b0]+W&R~MyJ
                                  Message = KfiI)gG'eE%cC#3A~ >|
В:
   715715308.7971, Layer 4 to 5
   716303860.1310, Layer 4 to 5 Message = LLx \sim pbSE6 (wiZL=x \sim pbS)
В:
    716667996.5211, Layer 4 to 5
                                  Message = dPMVY] `cfilo2ux{~$'*
B:
    716896578.2006, Layer 4 to 5
                                  Message = NcwNCWl#7Lau,AUj~5J
B:
B:
    717374251.6676, Layer 4 to 5
                                  Message = Ou=dORxAgxU{Dj2X~Gm5
                                  Message = P*b;sP' 8pJ$[5mG~X2j
B:
    717687275.8419, Layer 4 to 5
B: 718263367.1040, Layer 4 to 5
                                  Message = Q<(q]HQ|hS>*s J5~jUA
B: 718686998.4570, Layer 4 to 5 Message = ROLIFC?R9630-*'$~{xu}
B: 719126607.7517, Layer 4 to 5 Message = Sbp~x=LZSw(6ESbp~x=L
B: 719442749.9789, Layer 4 to 5 Message = df6Vv8Xx:Tz<2|3 ~Aa#
   720068503.0838, Layer 4 to 5 Message = U)Z.`3e8j=UCtHyM~R&W
В:
    720659174.3358, Layer 4 to 5
                                  Message = V;~dI.qV;~dV.qV;~dI.
    721021270.8948, Layer 4 to 5
B:
                                  Message = WNE; 2) } tkbXOW < 3 * ~ulc</pre>
B:
    722320043.8979, Layer 4 to 5
                                  Message = Xaiqy$, 4<EMU^Xnv~)19</pre>
B:
   722922263.7375, Layer 4 to 5
                                  Message = YsxIc|8Rl(B[u1Ye~:Tn
B:
   723909544.6888, Layer 4 to 5
                                  Message = Z(S~LwEp=i6bxZ(Z~LwE
    724487804.8011, Layer 4 to 5 Message = d:wV5rQ0mL+h2&cB[^{<}y
Printing the contents of the Simulation Event Q
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Event Time = 724489299.851 A: Timer
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Event Time = 724494299.851 A: Timer
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Event Time = 724495799.851 A: Timer
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Event Time = 724497799.851 A: Timer
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Event Time = 724498299.851 A: Timer

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Printing	the	contents	of	the	Simulation	Event	Q
		contents 724537299			Simulation : Timer	Event	Q

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Printing the contents of the Simulation Event Q
Event Time = 724540799.851 A: Timer
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 724553299.851 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 724553299.851 A: Timer
Printing the contents of the Simulation Event {\tt Q}
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
```

Event Time = 724554817.006 A: Timer

- Printing the contents of the Simulation Event ${\tt Q}$
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 724556317.006 A: Timer
- Printing the contents of the Simulation Event Q Event Time = 724556317.006 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 724559333.662 A: Timer
- Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 724567333.662 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 724568833.662 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event {\tt Q}
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
```

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Printing the contents of the Simulation Event Q
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Printing	the	contents	of	the	Simulation	Event	Q
		contents 724590833			Simulation : Timer	Event	Q

- Printing the contents of the Simulation Event Q Event Time = 724590833.662 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 724593338.859 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 724596338.859 A: Timer
- Printing the contents of the Simulation Event Q Event Time = 724596338.859 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q

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Printing the contents of the Simulation Event Q
Event Time = 724602850.935 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 724602850.935 A: Timer
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 724611353.719 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 724613353.719 A: Timer
Printing the contents of the Simulation Event {\tt Q}
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- Printing the contents of the Simulation Event ${\tt Q}$
- Printing the contents of the Simulation Event Q Event Time = 724615853.719 A: Timer
- Printing the contents of the Simulation Event Q Event Time = 724615853.719 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event ${\tt Q}$
- Printing the contents of the Simulation Event Q Event Time = 724624870.811 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 724626370.811 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 724627870.811 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event ${\tt Q}$
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- Printing the contents of the Simulation Event Q Event Time = 724632370.811 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 724633370.811 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 724646870.811 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 724648370.811 A: Timer
Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Event Time = 724650870.811 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 724651370.811 A: Timer
Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event ${\tt Q}$
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 724659370.811 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 724660370.811 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 724664370.811 A: Timer
- Printing the contents of the Simulation Event Q
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Event Time = 724665870.811 A: Timer

Printing the contents of the Simulation Event Q Event Time = 724670370.811 A: Timer Printing the contents of the Simulation Event Q Event Time = 724671870.811 A: Timer Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q

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Printing the contents of the Simulation Event Q
Event Time = 724677870.811 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 724677870.811 A: Timer
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Printing the contents of the Simulation Event Q
Event Time = 724678896.562 A: Timer
Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event ${\tt Q}$
- Printing the contents of the Simulation Event Q Event Time = 724682896.562 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 724683396.562 A: Timer
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 724684896.562 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 724687896.562 A: Timer
- Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q Event Time = 724689396.562 A: Timer Printing the contents of the Simulation Event Q Event Time = 724693396.562 A: Timer Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q

Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Printing the contents of the Simulation Event Q Event Time = 724700396.562 A: Timer Printing the contents of the Simulation Event Q Event Time = 724702896.562 A: Timer Printing the contents of the Simulation Event Q Event Time = 724705896.562 A: Timer

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Printing the contents of the Simulation Event Q
Event Time = 724708396.562 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event {\tt Q}
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Event Time = 724724896.562 A: Timer

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- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q Event Time = 724727396.562 A: Timer
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- Printing the contents of the Simulation Event Q Event Time = 724727896.562 A: Timer
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- Printing the contents of the Simulation Event Q Event Time = 724728396.562 A: Timer
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- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 724733396.562 A: Timer
- Printing the contents of the Simulation Event Q Event Time = 724733396.562 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 724739407.831 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q
- Printing the contents of the Simulation Event Q Event Time = 724743407.831 A: Timer
- Printing the contents of the Simulation Event Q Event Time = 724743407.831 A: Timer
- Printing the contents of the Simulation Event Q
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- Printing the contents of the Simulation Event ${\bf Q}$
- Printing the contents of the Simulation Event Q Event Time = 724747929.463 A: Timer
- Printing the contents of the Simulation Event Q
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Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event {\tt Q}
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event {\bf Q}
Printing the contents of the Simulation Event Q
Event Time = 724757429.463 A: Timer
   724756940.0827, Layer 4 to 5 Message = ]M=.|m^N>x\}n O?0~]P
B: 726914271.6759, Layer 4 to 5 Message = ^fbdfhjlnprtvx3|~#^'
B: 727083873.3642, Layer 4 to 5 Message = r(;Ocv,?Sgz0DWk~4H
B: 727258477.2553, Layer 4 to 5 Message = `Lq8^%Jo6[#Hm4Y~Fk2
B: 727479542.4108, Layer 4 to 5 Message = aapI!X1hAwP)`8oH~W0g
```

```
B:
    727606050.2103, Layer 4 to 5
                                   Message = bLb~iS=(pZExwbL6~iS=
В:
    727846609.7647, Layer 4 to 5
                                   Message = d ZcRNJFB=952-)%~zvr
    728224746.8603, Layer 4 to 5
                                   Message = dq~.dIVdq~.;IVdq~.;I
В:
B:
    728520302.5472, Layer 4 to 5
                                   Message = e&Ed%ec$Cb#Ba!A`~? }
    728647838.7637, Layer 4 to 5
                                   Message = f8i;l>fBrEuHxK{N~Q$T
B:
    729409560.7336, Layer 4 to 5
                                   Message = gfxqU9{gD(jN2t3<\sim cG+
B:
B:
    730238245.1241, Layer 4 to 5
                                   Message = h^SI>4*hi TJ?5+~tj`
В:
    730604444.6042, Layer 4 to 5
                                   Message = ipw \sim (x6 = EiSZbipw \sim (x6)
                                   Message = d%=Vo*C[txja24Mf~9Rk]
B:
    730644955.6390, Layer 4 to 5
                     Layer 4 to 5
                                   Message = k7b.X\%OyFp<k3^*T\sim KuB
    731025583.3319,
В:
    731488149.1706,
                     Layer 4 to 5
                                   Message = lJ(dB)[9uS1ml)eC~]:v
B:
    732616437.2544, Layer 4 to 5
B:
                                   Message = m]L;+xhWG6&scmB1~n^M
    732893969.7713,
                   Layer 4 to 5
B:
                                   Message = nopqrstuvwxyz{n}~!#$
    733464175.0802, Layer 4 to 5
                                   Message = 0\%I[n#5HZm!4GYo~3FX]
В:
В:
   734942033.5071, Layer 4 to 5
                                   Message = pfZ~EixSw=b(Lp3ZpEix
B:
    737199002.9110, Layer 4 to 5
                                   Message = dI~V.d;qI~V.2;qI~q.d
    737560572.9341, Layer 4 to 5
                                   Message = r[E.u H1xbK4{eN7~hr}:
B:
    737939626.9902, Layer 4 to 5
                                   Message = snid \overline{Y}TOJE?:50+&\sim yts
В:
    738279275.6969, Layer 4 to 5
B:
                                   Message = t # x; HTamy (4AMYfr~-9F
    738666392.7518, Layer 4 to 5
                                   Message = uuSq10m-Ki)Ge%Ca~>]z
    739439039.8676, Layer 4 to 5
                                   Message = vHvIxJyKzL\{M|N\}O\sim P!Q
B:
    739813677.9308, Layer 4 to 5
B:
                                   Message = wZ=wbE(iLxpS6wZ=~bE(
    740357300.1197, Layer 4 to 5
В:
                                   Message = dmbVx?4) {peY2C7, ~sh]
    740636899.9061, Layer 4 to 5
                                   Message = yf(.4yAGMSY`f13x~'-3
В:
    740906031.9212, Layer 4 to 5
                                   Message = z4Ld{5ze|6Nf}70q~8Ph
B:
    741605793.0579, Layer 4 to 5
                                   Message = {Gp;e0Y{NwCl7a,U~Js>
    742777593.5358, Layer 4 to 5
B:
                                   Message = |Y6qN+fC|Z7rO, qD\sim[8s]
    743007744.0714, Layer 4 to 5
                                   Message = }lZI7&raO},xgUD2~m[J
B:
B:
    745089806.4797, Layer 4 to 5
                                   B:
    747927115.4193, Layer 4 to 5
                                   Message = !3EVhy->Pbs'2J[m~2DU
B:
   749145017.4161, Layer 4 to 5
                                   Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
B:
   749193527.3540, Layer 4 to 5
                                   Message = X$d:oFzQ(]3h>sJ~U,a
B:
   749195540.5308, Layer 4 to 5
                                   Message = fS%jR:#iQ9!h38~gO7
    750697504.9775, Layer 4 to 5
                                   Message = &}wq&e XRLF?93-'~xrl
B:
    753796211.5488, Layer 4 to 5
                                   Message = '2=IT'kv$x:FQ]hs\sim,7C
В:
    753951254.0470, Layer 4 to 5
                                   Message = (Eb \sim = Z (6SpxLi (Eb \sim = Zw))
                                   Message = dW(V'U\&)%S$R2Q!P~O}N
B:
    754937631.9204, Layer 4 to 5
                                   Message = *jL.nP2r*6vX:z]>~aC%
    755420807.9789, Layer 4 to 5
В:
B:
    755630362.1988, Layer 4 to 5
                                   Message = +|pdWK>2&+k RF9-~rfY
B:
    756559593.4175, Layer 4 to 5
                                   Message = ,16;AFKPUZ,ejoty~&+0
    757011666.9768, Layer 4 to 5
                                   Message = -DZq*AWn'=T-$:Qh~7Ne
B:
    758004441.6862, Layer 4 to 5
                                   Message = .f~Iq;d.V~Iq.d3V~Iq;
                                   Message = xiE~Z6pL(b=wSxiE~Z6p
B:
    758865127.7315, Layer 4 to 5
    759341744.8214,
                     Layer 4 to 5
B:
                                   Message = d\{iVD1|jWE2\}2X03\sim1YG
    759761400.7767, Layer 4 to 5
                                   Message = 10x.-,+*) ('&%$\$\$1~}|{
В:
B:
    759777417.8482,
                    Layer 4 to 5
                                   Message = 2CSdt'7HXiy, <M^n21BR</pre>
В:
    760584612.3459, Layer 4 to 5
                                   Message = 3Uw;^!Df*Ln2Tv:]~3e)
В:
   760699140.7159, Layer 4 to 5
                                   Message = 4h=qGzP&Yxc8lBuK~T4^
    760759169.4599, Layer 4 to 5
                                   Message = 5zbI0u]D+pW>&kR9~fM5
В:
B:
   761915477.8317, Layer 4 to 5
                                   Message = 6x(~wpibZSLE=6x(~wpi
                                   Message = d7LVaku!, 6AK2^3t\sim+5?
    762021566.5405, Layer 4 to 5
В:
    762130649.0177,
                    Layer 4 to 5
                                   Message = 8T8.Jf?[w5Qm+Gc~<Xt
В:
    762468299.5679,
                    Layer 4 to 5
                                   Message = 9g693a0^-Z*W'T$Q~N\{K
B:
В:
    762777458.0176, Layer 4 to 5
                                   Message = :yZ;:[<{]=|^>} ?~`A!
B:
    764344439.1327,
                   Layer 4 to 5
                                   Message = ;.~qd;I;.~qdVI;.~qdV
    764728605.7991, Layer 4 to 5
                                   Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
B:
B:
    766434918.0507, Layer 4 to 5
                                   Message = =Si~6Lb=xEZp(=Si~6Lb
    768162167.6025, Layer 4 to 5
                                   Message = dfxV}Gn7>(Ov2g0W~Ho8
                                   Message = ?xS.gBzU0?D|W2kF~Y4m
    768553309.8865, Layer 4 to 5
B:
    768596830.4005, Layer 4 to 5
                                   Message = AfwdP<)s`LA%o[34~kWD
```

```
768647353.1509, Layer 4 to 5 Message = B?=;97531x-B)'% = |x
B:
В:
    769090483.3687, Layer 4 to 5
                                  Message = CRbq#2BQap!1CP`o~0?0
    769353595.3983, Layer 4 to 5
                                  Message = De(Ij-No2St7XD<^~Bc&
В:
B:
    769898270.9063, Layer 4 to 5
                                   Message = EwL\sim S(Zxb6i=pEEL\sim S(Z
    770063790.7541, Layer 4 to 5
                                  Message = d,pV<#gM3w^D2nTF~eK1</pre>
B:
   770552490.9032, Layer 4 to 5
B:
                                  Message = G>6.&(skcZRJB91)Gvnf
В:
   771580279.5336, Layer 4 to 5
                                   Message = HQZdmv!+4=GPYclu~H3<</pre>
   771840826.2432, Layer 4 to 5
                                  Message = Id~; Vq.Id~; Vq.Id~; Iq
B:
    772792112.3386, Layer 4 to 5
                                  Message = JfEq?1:g5b0]+W3R~MyJ
    773435266.7471, Layer 4 to 5
                                   Message = K+iI) gG'eE%cC#aA~ >|
В:
    773839357.1941, Layer 4 to 5
                                   Message = LLx~pbSE6(wiZL=x~pbS
B:
    774109403.6491, Layer 4 to 5
                                   Message = dPMVY] `cfilo2ux{~$'*
B:
B:
    774851289.2494, Layer 4 to 5
                                   Message = NcwNCWl#7Lau,AUj~5J
   775267448.2314, Layer 4 to 5
                                   Message = Ou=dORxAgxU{Dj2X~Gm5
В:
                                   Message = P*b;sP' 8pJ$[5mG~X2j
В:
   776410272.9962, Layer 4 to 5
B:
   776905431.8368, Layer 4 to 5
                                  Message = Q<(q]HQ|hS>*s J5~jUA
   777495115.2017, Layer 4 to 5
                                  Message = ROLIFC?R9630-*'$~{xu
B:
    777737157.2003, Layer 4 to 5
                                  Message = Sfp~x=LZSw(6ES3p~x=L
В:
    778252739.5394, Layer 4 to 5
В:
                                  Message = dt6Vv8Xx:Tz<2|> ~Aa#
    779436963.9161, Layer 4 to 5
                                  Message = U) Z. `3e8j=UCtHyM~R&W
    779508025.1707, Layer 4 to 5
B:
                                  Message = V;~dI.qV;~dV.qV;~dI.
    779609061.0820, Layer 4 to 5
                                  Message = WNE;2) } tkbXOW<3*~ulc</pre>
B:
   781144059.3606, Layer 4 to 5
                                  Message = Xaiqy$, 4<EMU^Xnv~)19</pre>
В:
   781982246.3174, Layer 4 to 5
                                  Message = YsxIc | 8Rl (B[u1Ye~:Tn
В:
   782944470.6888, Layer 4 to 5
                                  Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE)
B:
   783230531.7218, Layer 4 to 5
                                  Message = d:wV5rQ0mL+h2&cB[^<y</pre>
    783538625.9351, Layer 4 to 5
                                  Message = ]f=.|m^N>x}n O30~]P
B:
    784623984.0526, Layer 4 to 5
                                  Message = ^`bdfhjlnprtvxz|~#^'
                                  Message = _r(;Ocv,?Sgz0DWk~4H_
Message = `'Lq8^%Jo6[#Hm4Y~Fk2
В:
    784867064.1506, Layer 4 to 5
B:
    785664767.0292, Layer 4 to 5
                                   Message = aapI!X1hAwP) `8oH~W0g
B:
   786462987.5003, Layer 4 to 5
B: 786819582.9884, Layer 4 to 5
                                  Message = bLb~iS=(pZExwbL6~iS=
   787985914.4899, Layer 4 to 5
                                  Message = d ZcRNJFB=952-)%~zvr
B·
   789026658.5358, Layer 4 to 5
                                  Message = dq~.dIVdq~.;IVdq~.;I
B:
    789118689.9731, Layer 4 to 5
                                   Message = e&Ed%ec$Cb#Ba!A`~? }
В:
    789225730.5745, Layer 4 to 5
                                   Message = ffi;l>fBrEuHxK3N~Q$T
В:
    789539314.8051, Layer 4 to 5
                                   Message = gKxqU9\{gD(jN2tX<\sim cG+
    789861435.8701, Layer 4 to 5
                                   Message = h^SI>4*}hi_TJ?5+~tj
В:
   790046983.2384, Layer 4 to 5
B:
                                  Message = ipw \sim (x6 = EiSZbipw \sim (x6)
B:
   791153812.6431, Layer 4 to 5
                                   Message = d%=Vo*C[txja24Mf~9Rk
   791488412.4545, Layer 4 to 5
                                   Message = k7b.X\%OyFp< k3^*T\sim KuB
B:
   791699993.3477, Layer 4 to 5
                                   Message = lJ(dB)[9uS1ml)eC~]:v
    791929536.2458, Layer 4 to 5
B:
                                  Message = m]L;+xhWG6&scmB1~n^M
    792250078.6360, Layer 4 to 5
B:
                                   Message = nopqrstuvwxyz{n}~!#$
    792436651.0302, Layer 4 to 5
                                   Message = of6I[n#5HZm!4G3o~3FX
В:
B:
    792687758.6086, Layer 4 to 5
                                   Message = p6Z~EixSw=b(Lp6ZpEix
    793487602.7560, Layer 4 to 5
                                   Message = dI~V.d;qI~V.2;qI~q.d
В:
В:
   793747186.7034, Layer 4 to 5
                                   Message = r[E.u H1xbK4{eN7~hr}:
   794431815.1764, Layer 4 to 5
                                   Message = snid YTOJE?:50+&~yts
B:
   794970899.1504, Layer 4 to 5
                                  Message = t # x; HTamy (4AMYfr~-9F
   795116403.8551, Layer 4 to 5
                                  Message = uuSq10m-Ki)Ge%Ca~>]z
В:
    795456963.8884, Layer 4 to 5
                                   Message = vHvIxJyKzL\{M|N\}O\sim P!Q
B:
    796092352.4713, Layer 4 to 5
                                   Message = wZ=wbE(iLxpS6wZ=\sim bE(
В:
    796263927.1246, Layer 4 to 5
                                   Message = dfbVx?4) {peY2C3, ~sh]
B:
    796673087.4182, Layer 4 to 5
                                   Message = y!(.4yAGMSY`flrx~'-3
B:
    797157634.8164, Layer 4 to 5
                                   Message = z4Ld{5ze|6Nf}70g~8Ph
   797308206.7314, Layer 4 to 5
B:
                                   Message = {Gp;e0Y{NwCl7a,U~Js>
   799014147.6944, Layer 4 to 5
                                   Message = |Y6qN+fC|Z7rO, qD\sim[8s]
                                   Message = }lZI7&raO},xgUD2~m[J
B:
   799554287.4961, Layer 4 to 5
   799925930.5315, Layer 4 to 5
```

```
B:
    800188041.0910, Layer 4 to 5 Message = !3EVhy->Pbs'2J[m~2DU
                                         Message = \#\#i.Qt9]!Eh-Ps8[~Dq,
В:
    800526619.5116, Layer 4 to 5
    801652482.5117, Layer 4 to 5
                                         Message = f0 (]3h>3J~U, a
B:
    802020068.4522, Layer 4 to 5
                                         Message = %kS%$jR:#iQ9!hP8~g07
B: 802852757.4002, Layer 4 to 5
                                         Message = &}wq&e XRLF?93-'~xrl
                                         Message = '2=IT'kv$x:FQ]hs\sim,7C
B: 803555514.9645, Layer 4 to 5
B: 804708208.6439, Layer 4 to 5
                                         Message = (Eb~=Z(6SpxLi(Eb~=Zw
                                         Message = dW(V'U&)%S$R2Q!P~O}N
   804961266.2091, Layer 4 to 5
B:
   805163925.0110, Layer 4 to 5
                                         Message = *jL.nP2r*6vX:z]>~aC%
    805181938.5580, Layer 4 to 5
                                         Message = +|pdWK>2&+k RF9-~rfY
В:
    805334477.3533, Layer 4 to 5
В:
                                         Message = ,16;AFKPUZ,ejoty~&+0
    805365990.4356, Layer 4 to 5
                                         Message = -fZq*AWn'=T-$:3h~7Ne
B:
                                         Message = .V~Iq;d.V~Iq.d.V~Iq;
B: 805942644.7033, Layer 4 to 5
B: 806122702.9444, Layer 4 to 5
                                         Message = xiE~Z6pL(b=wSxiE~Z6p
B: 807899164.9649, Layer 4 to 5
                                         Message = d\{iVD1|jWE2\}2X03\sim1YG
B: 808048680.5121, Layer 4 to 5
                                         Message = 10x.-,+*) ('&%$\$1~}|{
B: 808943946.2827, Layer 4 to 5
                                         Message = 2CSdt'7HXiy,<M^n21BR</pre>
B: 809337066.7710, Layer 4 to 5
                                         Message = 3Uw;^!Df*Ln2Tv:]~3e)
    809772217.6182, Layer 4 to 5
                                         Message = 4h=qGzP&Yxc8lBuK~T4^
B:
    811199966.1774, Layer 4 to 5
                                         Message = 5zbI0u]D+pW>&kR9~fM5
    811322499.8316, Layer 4 to 5
                                         Message = 6f(~wpibZSLE=63(~wpi
B:
B: 811401116.5660, Layer 4 to 5
                                         Message = d7LVaku!,6AK2`jt~+5?
B: 811951294.8948, Layer 4 to 5
                                         Message = 8T8.Jf$?[w5Qm+Gc~<Xt
B: 813358773.4239, Layer 4 to 5
                                         Message = 9g693a0^-Z*W'T$Q~N\{K
B: 814084479.2779, Layer 4 to 5
                                         Message = :yZ;:[<{]=|^>} ?^A!
B:
   814889668.4390, Layer 4 to 5
                                         Message = ;.~qd;I;.~qdVI;.~qdV
    815019733.9587, Layer 4 to 5
В:
                                         Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
    815288837.7855, Layer 4 to 5
                                         Message = =Si~6Lb=xEZp(=Si~6Lb
B:
    815774507.3927, Layer 4 to 5
                                         Message = dfxV}Gn7>(Ov2g0W~Ho8
B: 815847026.3089, Layer 4 to 5
                                         Message = ?fS.gBzU0?D|W23F~Y4m
B: 816719729.6094, Layer 4 to 5
                                         Message = A-wdP<)s`LA%o[H4~kWD
B: 817547004.5177, Layer 4 to 5
                                         Message = B?=;97531x-B)'%\#~|zx
B: 817975619.4397, Layer 4 to 5
                                         Message = CRbq#2BQap!1CP`o~0?0
B: 818011151.3666, Layer 4 to 5
                                         Message = De(Ij-No2St7XD<^~Bc&</pre>
B: 818065161.9430, Layer 4 to 5
                                         Message = EwL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL) )))
    818231256.2725, Layer 4 to 5
                                         Message = d,pV<#gM3w^D2nTF~eK1</pre>
B:
    818274790.9364, Layer 4 to 5
                                         Message = G>6.&(skcZRJB91)Gvnf
   818598389.8342, Layer 4 to 5
                                         Message = HQZdmv!+4=GPYclu~H3<</pre>
В:
B: 818648906.1419, Layer 4 to 5
                                         Message = If~; Vq.Id~; Vq.3d~; Iq
B: 818964007.3616, Layer 4 to 5
                                         Message = JvEq?1:g5b0]+W&R~MyJ
B: 819316150.6491, Layer 4 to 5
                                         Message = K+iI)gG'eE%cC#aA~ >|
   819397200.6964, Layer 4 to 5
                                         Message = LLx~pbSE6(wiZL=x~pbS
B:
   819696258.1326, Layer 4 to 5
                                         Message = dPMVY]`cfilo2ux{~$'*
B:
    819957278.6408, Layer 4 to 5
В:
                                         Message = NcwNCWl#7Lau,AUj~5J
    821222613.3291, Layer 4 to 5
                                         Message = Ou=dORxAgxU{Dj2X~Gm5
                                         Message = P*b;sP'_8pJ$[5mG~X2j]
B:
    821872783.1584, Layer 4 to 5
B: 822375379.8209, Layer 4 to 5
                                         Message = Q<(q]HQ|hS>*s J5~jUA
                                         Message = RfLIFC?R9630-*3$~{xu
B: 823062523.8423, Layer 4 to 5
B: 823703131.3340, Layer 4 to 5
                                         Message = Sbp~x=LZSw(6ESbp~x=L
B: 824435941.7032, Layer 4 to 5
                                         Message = dt6Vv8Xx:Tz<2|> ~Aa#
B: 824980611.1922, Layer 4 to 5
                                         Message = U) Z.`3e8j=UCtHyM~R&W
    826501925.0278, Layer 4 to 5
                                         Message = V;~dI.qV;~dV.qV;~dI.
В:
    827530107.3385, Layer 4 to 5
                                         Message = WNE; 2) } tkbXOW<3*~ulc</pre>
B:
    828151258.9636, Layer 4 to 5
                                         Message = Xaiqy$, 4<EMU^Xnv~)19</pre>
B:
   828182268.1408, Layer 4 to 5
                                         Message = YsxIc|8Rl(B[u1Ye~:Tn
B: 828460854.5914, Layer 4 to 5
                                         Message = Z(S~LwEp=i6bxZ(Z~LwE
B: 828775977.9908, Layer 4 to 5
                                          Message = dfwV5rQ0mL+h2&3B[^<y]
B: 829834310.1523, Layer 4 to 5
                                         Message = ]M=.|m^N>x}n O?0~]`P
B: 829925853.8482, Layer 4 to 5
                                         Message = ^`bdfhjlnprtvxz|~#^'
B: 830576549.1333, Layer 4 to 5 Message = r(;Ocv,?Sgz0DWk~4H)
```

```
B: 831068743.8465, Layer 4 to 5 Message = `'Lq8^%Jo6[#Hm4Y~Fk2
                                 Message = aapI!X1hAwP) `8oH~W0g
В:
   831633426.9131, Layer 4 to 5
   831693966.3662, Layer 4 to 5
                                  Message = bLb~iS=(pZExwbL6~iS=
   832666159.8675, Layer 4 to 5
                                  Message = d_ZcRNJFB=952-)%~zvr
B: 833253291.4973, Layer 4 to 5
                                  Message = dq~.dIVdq~.;IVdq~.;I
B: 833465910.9126, Layer 4 to 5
                                  Message = efEd%ec$Cb#Ba!3`~? }
B: 834325049.0800, Layer 4 to 5
                                  Message = f8i;l>fBrEuHxK{N~Q$T
B: 835093856.0931, Layer 4 to 5
                                  Message = qKxqU9\{qD(jN2tX<\sim cG+
B: 836620280.8691, Layer 4 to 5
                                  Message = h^SI>4*hi TJ?5+~tj`
   836821381.4232, Layer 4 to 5
                                  Message = ipw \sim (x6 = EiSZbipw \sim (x6)
В:
   837071474.2893, Layer 4 to 5
                                  Message = d%=Vo*C[txja24Mf~9Rk
   838137695.4750, Layer 4 to 5
B:
                                  Message = k7b.X%OyFp<k3^*T~KuB
B: 839497507.2218, Layer 4 to 5
                                  Message = lJ(dB)[9uS1ml)eC~]:v
B: 841938097.2105, Layer 4 to 5
                                  Message = m]L;+xhWG6&scmB1~n^M
B: 842290659.7742, Layer 4 to 5
                                  Message = nfpqrstuvwxyz{n}~!#$
B: 842635223.6376, Layer 4 to 5
                                 Message = 0\%I[n\#5HZm!4GYo~3FX]
B: 842884326.9589, Layer 4 to 5
                                 Message = p6Z~EixSw=b(Lp6ZpEix
B: 843078892.0381, Layer 4 to 5
                                 Message = dI~V.d;qI~V.2;qI~q.d
   843294452.3976, Layer 4 to 5
                                  Message = r[E.u H1xbK4{eN7~hr}:
   843377977.9201, Layer 4 to 5
                                  Message = snid YTOJE?:50+&~yts
   843752671.4003, Layer 4 to 5
                                  Message = t # x; HTamy (4AMYfr~-9F
B:
B: 845636618.4318, Layer 4 to 5
                                  Message = uuSq10m-Ki)Ge%Ca~>]z
B: 846295262.1767, Layer 4 to 5
                                  Message = vHvIxJyKzL\{M|N\}O\sim P!Q
B: 846324806.7294, Layer 4 to 5
                                  Message = wf=wbE(iLxpS6w3=~bE(
В:
   846510817.9896, Layer 4 to 5
                                  Message = dmbVx?4) {peY2C7, ~sh]
B:
   846859913.9890, Layer 4 to 5
                                  Message = y!(.4yAGMSY`flrx~'-3
   847998618.3276, Layer 4 to 5
В:
                                  Message = z4Ld{5ze|6Nf}70g~8Ph
   848736335.0085, Layer 4 to 5
                                  Message = {Gp;e0Y{NwCl7a,U~Js>
B:
   849402588.7612, Layer 4 to 5
                                  Message = |Y6qN+fC|Z7rO, qD\sim[8s]
B: 849828718.7474, Layer 4 to 5
                                  Message = \{1ZI7\&raO\}, xgUD2~m[J
B: 849906743.7789, Layer 4 to 5
                                  B: 850106326.8992, Layer 4 to 5
                                  Message = !3EVhy->Pbs'2J[m~2DU
B: 850238367.2090, Layer 4 to 5
                                 Message = \#\#i.Qt9]!Eh-Ps3[~Dq,
B: 850329415.0289, Layer 4 to 5
                                  Message = $X$d:oFzQ(]3h>sJ~U,a
B: 851027107.8814, Layer 4 to 5
                                  Message = %kS%$jR:#iQ9!hP8~gO7
   852910082.3009, Layer 4 to 5
                                  853191671.3027, Layer 4 to 5
B:
                                  Message = '2=IT'kv$x:FQ]hs\sim,7C
   854255849.2449, Layer 4 to 5
                                  Message = (Eb~=Z(6SpxLi(Eb~=Zw
В:
B: 855444173.1060, Layer 4 to 5
                                  Message = dW(V'U\&) %S$R2Q!P~O}N
B: 857098490.8836, Layer 4 to 5
                                  Message = *jL.nP2r*6vX:z]>~aC%
B: 857777176.3250, Layer 4 to 5
                                  Message = +|pdWK>2&+k RF9-~rfY
   857876212.8105, Layer 4 to 5
                                  Message = ,f6;AFKPUZ,ejo3y~&+0
B:
   858503356.5212, Layer 4 to 5
                                  Message = -DZq*AWn'=T-$:Qh~7Ne
B:
   858999984.0865, Layer 4 to 5
                                  Message = .V~Iq;d.V~Iq.d.V~Iq;
   859915229.6508, Layer 4 to 5
                                  Message = xiE\sim Z6pL(b=wSxiE\sim Z6p
B:
   863726355.4609, Layer 4 to 5
                                  Message = d\{iVD1|jWE2\}2X03\sim1YG
B: 864957712.1491, Layer 4 to 5
                                  Message = 10x.-,+*) ('&%$\$\$1~}|{
B: 865113754.6156, Layer 4 to 5
                                  Message = 2CSdt'7HXiy, <M^n21BR</pre>
B: 865813020.4484, Layer 4 to 5
                                  Message = 3Uw;^!Df*Ln2Tv:]~3e)
B: 865853084.2226, Layer 4 to 5
                                  Message = 4h=qGzP&Yxc8lBuK~T4^
B: 866043143.1444, Layer 4 to 5
                                  Message = 5fbI0u]D+pW>&k39~fM5
   866291225.8586, Layer 4 to 5
                                  Message = 6x(~wpibZSLE=6x(~wpi
   866473762.1635, Layer 4 to 5
                                  Message = d7LVaku!,6AK2`jt~+5?
B:
   866589805.0791, Layer 4 to 5
                                  Message = 8T8.Jf$?[w5Qm+Gc~<Xt
                                  Message = 9g693a0^-Z*W'T$Q~N\{K
B: 866946388.4697, Layer 4 to 5
B: 867389951.9726, Layer 4 to 5
                                  Message = :yZ;:[<{]=|^>} ?~`A!
B: 867832052.0374, Layer 4 to 5
                                  Message = ;.~qd;I;.~qdVI;.~qdV
B: 868031084.9635, Layer 4 to 5
                                  Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
B: 868117636.5793, Layer 4 to 5
                                  Message = =Si~6Lb=xEZp(=Si~6Lb
B: 868212716.2553, Layer 4 to 5 Message = dfxV Gn7>(Ov2g3W~Ho8
```

```
B:
   868617761.5240, Layer 4 to 5 Message = ?xS.gBzU0?D|W2kF~Y4m
В:
   869069997.2611, Layer 4 to 5
                                  Message = A-wdP<)s`LA%o[H4~kWD</pre>
    869223087.4071, Layer 4 to 5
                                   Message = B?=;97531x-B)'%\#~|zx
B:
   869987778.7269, Layer 4 to 5
                                   Message = CRbq#2BQap!1CP`o~0?0
   870385368.2608, Layer 4 to 5
                                   Message = De(Ij-No2St7XD<^~Bc&</pre>
B:
B: 871009939.0828, Layer 4 to 5
                                   Message = EwL\sim S(Zxb6i=pEEL\sim S(Z
   871294095.6098, Layer 4 to 5
                                   Message = d,pV<\#gM3w^D2nTF\sim eK1
   871940782.3564, Layer 4 to 5
                                   Message = G>6.&{skcZRJB91)Gvnf
B:
   874297585.5216, Layer 4 to 5
                                   Message = HfZdmv!+4=GPYc3u~H3<</pre>
    875745463.9793, Layer 4 to 5
                                   Message = Id~; Vq.Id~; Vq.Id~; Iq
В:
    875834035.1775, Layer 4 to 5
                                   Message = JvEq?1:g5b0]+W&R~MyJ
    875996132.6684, Layer 4 to 5
B:
                                   Message = K+iI)gG'eE%cC#aA~ >|
B:
   876513892.4072, Layer 4 to 5
                                   Message = LLx~pbSE6(wiZL=x~pbS
B: 876813911.0767, Layer 4 to 5
                                   Message = dPMVY] `cfilo2ux{~$'*
B: 877177502.1937, Layer 4 to 5
                                   Message = NcwNCWl#7Lau,AUj~5J
B: 877662621.9199, Layer 4 to 5
                                  Message = Ou=dORxAgxU{Dj2X~Gm5
   877948673.1379, Layer 4 to 5
                                  Message = P*b;sP' 8pJ$[5mG~X2j
B:
B: 877968218.3462, Layer 4 to 5
                                  Message = Qf(q]HQ|hS>*s 35~jUA
   878425891.0079, Layer 4 to 5
                                   Message = ROLIFC?R9630-*^{*}$~{xu
   879094567.2494, Layer 4 to 5
                                   Message = Sbp~x=LZSw(6ESbp~x=L
B:
   881042227.4377, Layer 4 to 5
                                   Message = dt6Vv8Xx:Tz<2|> ~Aa#
B: 881401788.9126, Layer 4 to 5
                                   Message = U) Z. `3e8j=UCtHyM~R&W
B: 881903438.6097, Layer 4 to 5
                                   Message = V;~dI.qV;~dV.qV;~dI.
B: 882762183.7474, Layer 4 to 5
                                   Message = WNE;2) } tkbXOW<3*~ulc</pre>
В:
   883642891.3269, Layer 4 to 5
                                   Message = Xaiqy$, 4<EMU^Xnv~)19</pre>
B: 884424055.0053, Layer 4 to 5
                                  Message = YsxIc|8Rl(B[u1Ye~:Tn
   884646604.2210, Layer 4 to 5
                                   Message = ZfS~LwEp=i6bxZ3Z~LwE
B:
   884964702.2800, Layer 4 to 5
                                   Message = d:wV5rQ0mL+h2&cB[^<y</pre>
B:
   885078292.5800, Layer 4 to 5
                                   Message = ]M=.|m^N>x}n O?0~]`P
B: 885964591.7950, Layer 4 to 5
                                   Message = ^`bdfhjlnprtvxz|~#^'
                                  Message = _r(;Ocv,?Sgz0DWk~4H_
Message = `'Lq8^%Jo6[#Hm4Y~Fk2
B: 886944323.8908, Layer 4 to 5
B: 888491109.8840, Layer 4 to 5
                                   Message = aapI!X1hAwP) `8oH~W0g
B: 889968536.9704, Layer 4 to 5
B: 890655251.1682, Layer 4 to 5
                                  Message = bLb~iS=(pZExwbL6~iS=
B: 890870316.1231, Layer 4 to 5
                                   Message = d ZcRNJFB=952-)%~zvr
   893329571.0116, Layer 4 to 5
                                   Message = df~.dIVdq~.;IV3q~.;I
   893980723.2756, Layer 4 to 5
B:
                                   Message = e&Ed%ec$Cb#Ba!A`~? }
   895283620.1508, Layer 4 to 5
                                   Message = f8i;l>fBrEuHxK{N~Q$T
В:
B: 895657763.2526, Layer 4 to 5
                                   Message = gKxqU9\{gD(jN2tX<\sim cG+
B: 896084355.6619, Layer 4 to 5
                                   Message = h^SI>4*hi TJ?5+~tj`
B: 896577016.9854, Layer 4 to 5
                                   Message = ipw \sim (x6 = EiSZbipw \sim (x6)
                                   Message = d%=Vo*C[txja24Mf~9Rk
B:
   896703543.2480, Layer 4 to 5
   896992614.0904, Layer 4 to 5
                                   Message = k7b.X\%OyFp< k3^*T\sim KuB
B:
   897757381.3971, Layer 4 to 5
                                   Message = lJ(dB)[9uS1ml)eC~]:v
    898026958.9698, Layer 4 to 5
                                   Message = mfL; +xhWG6&scm31~n^M
B:
   898330546.0501, Layer 4 to 5
                                   Message = nopqrstuvwxyz{n}~!#$
B: 898908646.4038, Layer 4 to 5
                                   Message = 0\%I[n#5HZm!4GYo~3FX]
B: 898993168.3387, Layer 4 to 5
                                   Message = p6Z~EixSw=b(Lp6ZpEix
B: 899275221.0392, Layer 4 to 5
                                   Message = dI~V.d;qI~V.2;qI~q.d
B: 899950405.3333, Layer 4 to 5
                                   Message = r[E.u H1xbK4{eN7~hr}:
   900173459.4545, Layer 4 to 5
                                   Message = snid YTOJE?:50+&~yts
B:
   900531090.6462, Layer 4 to 5
                                   Message = t # x; HTamy (4AMYfr~-9F
B:
    900839647.9212, Layer 4 to 5
                                   Message = uuSq10m-Ki)Ge%Ca~>]z
    902040477.1955, Layer 4 to 5
В:
                                   Message = vfvIxJyKzL\{M|N30\sim P!Q
B:
   902500158.4405, Layer 4 to 5
                                   Message = wZ=wbE(iLxpS6wZ=~bE(
B:
   902715180.4019, Layer 4 to 5
                                   Message = dmbVx?4) {peY2C7, ~sh]
   903158786.9938, Layer 4 to 5
B:
                                   Message = y!(.4yAGMSY`flrx~'-3
                                   Message = z4Ld{5ze|6Nf}70g~8Ph
   905050260.0583, Layer 4 to 5
                                   Message = {Gp;e0Y{NwCl7a,U~Js>
B: 905501298.7099, Layer 4 to 5
B: 905772400.6700, Layer 4 to 5 Message = |Y6qN+fC|Z7rO,qD^{-}[8s]
```

```
B:
    907045867.7446, Layer 4 to 5 Message = }1ZI7&raO},xgUD2~m[J
В:
    907611460.4856, Layer 4 to 5
                                  907828523.9258, Layer 4 to 5
В:
                                  Message = !fEVhy->Pbs'2J3m~2DU
B:
    907940602.5538, Layer 4 to 5
                                  Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
   908195194.5478, Layer 4 to 5
B:
                                  Message = $X$d:oFzQ(]3h>sJ~U,a
   908422793.1341, Layer 4 to 5
                                  Message = %kS%jR:#iQ9!hP8~gO7
B:
   909010928.1813, Layer 4 to 5
                                  Message = '2=IT'kv$x:FQ]hs\sim,7C
    909259428.6043, Layer 4 to 5
    909882706.4154, Layer 4 to 5
                                  Message = (Eb~=Z(6SpxLi(Eb~=Zw
В:
    911395550.0478, Layer 4 to 5
                                  Message = dW(V'U\&)%S$R2Q!P~O}N
В:
                    Layer 4 to 5
                                  Message = *jL.nP2r*6vX:z]>~aC%
B:
    911899746.2909,
                   Layer 4 to 5
B:
    912829924.8641,
                                  Message = +fpdWK>2&+k RF3-~rfY
B:
    913370558.1825,
                   Layer 4 to 5
                                  Message = ,16;AFKPUZ,ejoty~&+0
B: 913772145.3847, Layer 4 to 5
                                  Message = -DZq*AWn'=T-$:Qh~7Ne
B: 913789666.6805, Layer 4 to 5
                                  Message = .V~Iq;d.V~Iq.d.V~Iq;
                                  Message = xiE~Z6pL(b=wSxiE~Z6p
B: 914365770.1913, Layer 4 to 5
    914477784.2814, Layer 4 to 5
                                  Message = d{iVD1|jWE2}2X03\sim1YG
B:
    914559843.7282, Layer 4 to 5
                                  Message = 10x.-,+*)('&%$#1~}|{
В:
    914704919.6265, Layer 4 to 5
                                  Message = 2CSdt'7HXiy, <M^n21BR</pre>
B:
    915499120.3689, Layer 4 to 5
                                  Message = 3Uw;^!Df*Ln2Tv:]~3e)
   915913305.9033, Layer 4 to 5
                                  Message = 4f=qGzP&Yxc8lB3K~T4^
B:
   916467013.2949, Layer 4 to 5
                                  Message = 5zbI0u]D+pW>&kR9~fM5
B:
   916602079.8142, Layer 4 to 5
В:
                                  Message = 6x(~wpibZSLE=6x(~wpi
   917800962.9719, Layer 4 to 5
                                  Message = d7LVaku!,6AK2`jt~+5?
                                  Message = 8T8.Jf?[w5Qm+Gc~<Xt
В:
   918448664.3539, Layer 4 to 5
   918854767.5113, Layer 4 to 5
                                  Message = 9g693a0^-Z*W'T$Q~N\{K
В:
    919657965.4118, Layer 4 to 5
В:
                                  Message = :yZ;:[<{]=|^>} ?^A!
    920020496.3075, Layer 4 to 5
                                  Message = ;.~qd;I;.~qdVI;.~qdV
В:
    922252039.2347,
                   Layer 4 to 5
                                  Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
    922662169.3812,
B:
                   Layer 4 to 5
                                  Message = = fi \sim 6Lb = xEZp (= 3i \sim 6Lb)
B: 923063788.0394, Layer 4 to 5
                                  Message = dfxV}Gn7>(Ov2g0W~Ho8
B: 923242340.5875, Layer 4 to 5
                                  Message = ?xS.gBzU0?D|W2kF\sim Y4m
B:
   923411884.6083, Layer 4 to 5
                                  Message = A-wdP<) s LA%o[H4~kWD
                                  Message = B?=;97531x-B)'%\#\sim|zx
    924157056.5894, Layer 4 to 5
B:
    924416591.7832, Layer 4 to 5
                                  Message = CRbq#2BQap!1CP`o~0?0
В:
    924694646.1291, Layer 4 to 5
                                  Message = De(Ij-No2St7XD<^~Bc&</pre>
B:
    924952268.0405, Layer 4 to 5
                                  Message = EwL\sim S(Zxb6i=pEEL\sim S(Z
   925174353.9018, Layer 4 to 5
                                  Message = d,pV<\#gM3w^D2nTF\sim eK1
В:
B:
   925239368.5900, Layer 4 to 5
                                  Message = Gf6.&(skcZRJB93)Gvnf
   925478449.6203, Layer 4 to 5
                                  Message = HQZdmv!+4=GPYclu~H3<</pre>
   926186729.9690, Layer 4 to 5
                                  Message = Id~; Vq.Id~; Vq.Id~; Iq
    926681890.5421, Layer 4 to 5
                                  Message = JvEq?1:g5b0]+W&R~MyJ
B:
                                  Message = K+iI)gG'eE%cC#aA~ >|
B:
    927423592.0017, Layer 4 to 5
                    Layer 4 to 5
                                  Message = LLx~pbSE6(wiZL=x~pbS
B:
    927633185.3237,
                   Layer 4 to 5
    927864730.8990,
                                  Message = dPMVY]`cfilo2ux{~$'*
В:
В:
    928069283.2245, Layer 4 to 5
                                  Message = NcwNCWl#7Lau,AUj~5J
                                  Message = Ou=dORxAgxU{Dj2X~Gm5
B:
    929016112.6602, Layer 4 to 5
                                  Message = Pfb;sP' 8pJ$[53G~X2j
B: 929460776.3078, Layer 4 to 5
   930077979.4592, Layer 4 to 5
                                  Message = Q<(q]HQ|hS>*s J5~jUA
                                  Message = ROLIFC?R9630-*'$~{xu
B:
    930319020.1938, Layer 4 to 5
                                  Message = Sbp~x=LZSw(6ESbp~x=L
    930700634.2176, Layer 4 to 5
В:
    930705149.1476, Layer 4 to 5
В:
                                  Message = dt6Vv8Xx:Tz<2|> ~Aa#
                                  Message = U)Z.^3e8j=UCtHyM\sim R\&W
    930944702.4355,
                    Layer 4 to 5
В:
    931483278.1868, Layer 4 to 5
                                  Message = V;~dI.qV;~dV.qV;~dI.
    931817347.2293, Layer 4 to 5
                                  Message = WNE;2) }tkbXOW<3*~ulc</pre>
B:
B:
   931898928.9282, Layer 4 to 5
                                  Message = Xaiqy$, 4<EMU^Xnv~)19</pre>
В:
   932421513.2703, Layer 4 to 5
                                   Message = YfxIc|8Rl(B[u1Ye~:Tn
    933240727.3037,
                    Layer 4 to 5
                                   Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE
    933662332.5925, Layer 4 to 5
                                  Message = d:wV5rQ0mL+h2&cB[^<y</pre>
B:
   933815870.4185, Layer 4 to 5
                                  Message = ]M=.|m^N>x}n O?0~]`P
```

```
934126527.4858, Layer 4 to 5 Message = ^`bdfhjlnprtvxz|~#^'
B:
                                  Message = _r(;Ocv,?Sgz0DWk~4H_
Message = `'Lq8^%Jo6[#Hm4Y~Fk2
В:
    934400114.8383, Layer 4 to 5
    935608536.7232, Layer 4 to 5
В:
B:
   935908669.3048, Layer 4 to 5
                                  Message = aapI!X1hAwP) `8oH~W0g
   936347317.6063, Layer 4 to 5
                                  Message = bLb~iS=(pZExwbL6~iS=
B:
B: 937008483.4205, Layer 4 to 5
                                  Message = dfZcRNJFB=952-3%~zvr
   937518170.9645, Layer 4 to 5
                                  Message = dq~.dIVdq~.;IVdq~.;I
   937744284.2112, Layer 4 to 5
                                  Message = e&Ed%ec$Cb#Ba!A`~? }
B:
   938966564.2036, Layer 4 to 5
                                  Message = f8i;l>fBrEuHxK{N~Q$T
    939271167.7299, Layer 4 to 5
                                  Message = qKxqU9\{qD(jN2tX<\sim cG+
В:
                    Layer 4 to 5
                                  Message = h^SI>4*hi TJ?5+~tj
B:
    939871387.5531,
                                  Message = ipw \sim (x6 = EiSZbipw \sim (x6)
    940123971.1229, Layer 4 to 5
B:
B:
   940266525.2246, Layer 4 to 5
                                  Message = d=Vo*C[txja24Mf~9Rk
B: 940268044.2360, Layer 4 to 5
                                  Message = k7b.X%OyFp<k3^*T~KuB
B: 940422598.6407, Layer 4 to 5
                                  Message = lf(dB)[9uS1ml)3C~]:v
                                  Message = m]L;+xhWG6&scmB1~n^M
B: 941946996.5347, Layer 4 to 5
B: 942367636.9776, Layer 4 to 5
                                  Message = nopqrstuvwxyz{n}~!#$
   943149894.5225, Layer 4 to 5
                                  Message = 0\%1[n#5HZm!4GYo~3FX]
В:
   943326472.1235, Layer 4 to 5
B:
                                  Message = p6Z~EixSw=b(Lp6ZpEix
    943624086.6213, Layer 4 to 5
                                  Message = dI~V.d;qI~V.2;qI~q.d
   943968174.6779, Layer 4 to 5
                                  Message = r[E.u H1xbK4{eN7~hr}:
B:
B:
   945929462.7548, Layer 4 to 5
                                  Message = snid YTOJE?:50+&~yts
   946229076.2804, Layer 4 to 5
В:
                                  Message = t # x; HTamy (4AMYfr~-9F
   946712776.6134, Layer 4 to 5
                                  Message = uuSq10m-Ki)Ge%3a~>]z
В:
   946786825.0893, Layer 4 to 5
                                  Message = vHvIxJyKzL\{M|N\}O\sim P!Q
B:
   947712002.8515, Layer 4 to 5
                                  Message = wZ=wbE(iLxpS6wZ=~bE(
   947958597.5257, Layer 4 to 5
B:
                                  Message = dmbVx?4) {peY2C7, ~sh]
    948190143.3350, Layer 4 to 5
                                  Message = y!(.4yAGMSY`flrx~'-3
B:
    948313675.5517, Layer 4 to 5
                                  Message = z4Ld{5ze|6Nf}70g~8Ph
B:
   948360182.7026, Layer 4 to 5
                                  Message = {Gp;e0Y{NwCl7a,U~Js>
B: 948611761.6109, Layer 4 to 5
                                  Message = |Y6qN+fC|Z7rO,qD\sim[8s]
B: 949260425.8118, Layer 4 to 5
                                  Message = }lZI7&raO},xgUD2~m[J
                                  Message = ~f~~~~~3~~~~
B: 949359439.0735, Layer 4 to 5
B: 949668019.3382, Layer 4 to 5
                                  Message = !3EVhy->Pbs'2J[m~2DU
   950509139.1650, Layer 4 to 5
                                  Message = \#i.Qt9]!Eh-Ps8[~Dg,
В:
    950561156.4943, Layer 4 to 5
                                  Message = X$d:oFzQ(]3h>sJ~U,a
    950677197.3767, Layer 4 to 5
B:
                                  Message = %kS%jR:#iQ9!hP8~gO7
   951909483.1971, Layer 4 to 5
                                  Message = &}wq&e XRLF?93-'~xrl
В:
                                  Message = '2=IT'kv$x:FQ]hs\sim,7C
B:
   952027026.8878, Layer 4 to 5
   952805269.8970, Layer 4 to 5
                                  Message = (Eb~=Z(6SpxLi(Eb~=Zw
   954440550.3929, Layer 4 to 5
                                  Message = dW(V'U\&)%S$R2Q!P~O}N
                                  Message = *fL.nP2r*6vX:z3>~aC%
    954577561.1352, Layer 4 to 5
B:
В:
    954650086.0975, Layer 4 to 5
                                  Message = +|pdWK>2&+k RF9-~rfY
    954889196.0912, Layer 4 to 5
B:
                                  Message = ,16;AFKPUZ,ejoty~&+0
    957126704.5888, Layer 4 to 5
                                  Message = -DZq*AWn'=T-$:Qh~7Ne
B:
    957416810.1912, Layer 4 to 5
                                  Message = .V~Iq;d.V~Iq.d.V~Iq;
   958006938.2429, Layer 4 to 5
                                  Message = xiE~Z6pL(b=wSxiE~Z6p
В:
B: 958474547.3549, Layer 4 to 5
                                  Message = d\{iVD1|jWE2\}2X03\sim1YG
B: 958906194.0968, Layer 4 to 5
                                  Message = 10x.-,+*) ('&\$\$\$1~}|{
                                  Message = 2CSdt'7HXiy,<M^n21BR</pre>
B: 959153278.6992, Layer 4 to 5
                                  Message = 3fw;^!Df*Ln2Tv3]~3e)
   959481325.0135, Layer 4 to 5
В:
    959689887.4303, Layer 4 to 5
                                  Message = 4h=qGzP&Yxc8lBuK~T4^
В:
    959909481.9358, Layer 4 to 5
                                  Message = 5zbI0u]D+pW>&kR9~fM5
В:
    960473203.2499, Layer 4 to 5
                                  Message = 6x(~wpibZSLE=6x(~wpi
B:
   960841284.3060, Layer 4 to 5
                                  Message = d7LVaku!, 6AK2 jt~+5?
B:
   961013306.1875, Layer 4 to 5
                                  Message = 8T8.Jf$?[w5Qm+Gc~<Xt
   961138364.8141, Layer 4 to 5
                                   Message = 9g693a0^-Z*W'T$Q~N\{K
   962537206.1071, Layer 4 to 5
                                   Message = :yZ;:[<{]=|^>} ?~`A!
B: 963576629.1004, Layer 4 to 5
                                  Message = ;.~qd;I;.~qdVI;.~qdV
B: 963760165.9225, Layer 4 to 5
                                  Message = <fEIMQ<Y^bfjnr3z~%)-
```

```
B:
    964380845.9730, Layer 4 to 5 Message = =Si<6Lb==xEZp(=Si<6Lb
В:
    965058084.0428, Layer 4 to 5
                                  Message = dfxVGn7>(Ov2g0W~Ho8
    965475627.3968, Layer 4 to 5
                                  Message = ?xS.gBzU0?D|W2kF\sim Y4m
B:
   965581697.7681, Layer 4 to 5
                                  Message = A-wdP<)s`LA%o[H4~kWD
                                  Message = B?=;97531x-B)'%\#\sim|zx
   966569609.4502, Layer 4 to 5
B:
   966620627.7620, Layer 4 to 5
                                  Message = CRbq#2BQap!1CP`o~0?0
B:
B:
   967265276.1477, Layer 4 to 5
                                  Message = De(Ij-No2St7XD<^~Bc&</pre>
                                  Message = EwL~S(Zxb6i=pEEL~S(Z
   967650830.1268, Layer 4 to 5
B:
   967789391.1188, Layer 4 to 5
                                  Message = dfpV<#gM3w^D2n3F~eK1</pre>
    969375275.8942, Layer 4 to 5
                                  Message = G>6.&(skcZRJB91)Gvnf
В:
    969852892.0490, Layer 4 to 5
B:
                                  Message = HQZdmv!+4=GPYclu~H3<</pre>
    970034417.6061, Layer 4 to 5
                                  Message = Id~; Vq.Id~; Vq.Id~; Iq
B:
                                  Message = JvEq?1:g5b0]+W&R~MyJ
B:
    970480488.3638, Layer 4 to 5
B: 970970079.7469, Layer 4 to 5
                                  Message = K+iI)gG'eE%cC#aA~ >|
B: 971748802.6475, Layer 4 to 5
                                  Message = LLx~pbSE6(wiZL=x~pbS
B: 971920831.4663, Layer 4 to 5
                                  Message = dPMVY] `cfilo2ux{~$'*
B: 972317468.8456, Layer 4 to 5
                                  Message = NcwNCWl#7Lau,AUj~5J
   972689127.3200, Layer 4 to 5
                                  Message = Of=dORxAgxU{Dj3X~Gm5
В:
   972779176.6620, Layer 4 to 5
                                  Message = P*b;sP' 8pJ$[5mG~X2j
B:
                                  Message = Q<(q)HQ/hS>*s J5~jUA
    973033743.9491, Layer 4 to 5
   973324792.4428, Layer 4 to 5
                                  Message = ROLIFC?R9630-*'$~{xu
B:
   973849901.1114, Layer 4 to 5
                                  Message = Sbp~x=LZSw(6ESbp~x=L
B:
   974395059.2509, Layer 4 to 5
В:
                                  Message = dt6Vv8Xx:Tz<2|> ~Aa#
   974481100.2709, Layer 4 to 5
                                  Message = U) Z. `3e8j=UCtHyM~R&W
                                  Message = V;~dI.qV;~dV.qV;~dI.
В:
   975922055.4965, Layer 4 to 5
B:
   975976143.8714, Layer 4 to 5
                                  Message = WNE;2)}tkbXOW<3*~ulc</pre>
    976077165.3066, Layer 4 to 5
                                  Message = Xfiqy$, 4 < EMU^X3v^2) 19
B:
    977280628.1823, Layer 4 to 5
                                  Message = YsxIc|8Rl(B[u1Ye~:Tn
B:
    978627499.7589, Layer 4 to 5
                                  Message = Z(S~LwEp=i6bxZ(Z~LwE
                                  Message = d:wV5rQ0mL+h2&cB[^<y</pre>
B:
    978975061.9540, Layer 4 to 5
B: 979366156.7428, Layer 4 to 5
                                  Message = ]M=.|m^N>x\}n O?0~]`P
B: 979531230.5424, Layer 4 to 5
                                  Message = ^`bdfhjlnprtvxz|~#^'
B: 980190337.5969, Layer 4 to 5
                                  Message = r(;Ocv,?Sqz0DWk~4H
                                  Message = \frac{1}{1}Lq8^%Jo6[#Hm4Y~Fk2
B: 980435857.7017, Layer 4 to 5
   983671810.6066, Layer 4 to 5
                                  Message = aapI!X1hAwP) `8oH~W0g
В:
    983857903.1340, Layer 4 to 5
                                  Message = bfb~iS=(pZExwb36~iS=
                                  Message = d_ZcRNJFB=952-)%~zvr
B:
    984323606.4112, Layer 4 to 5
   985040840.3328, Layer 4 to 5
                                  Message = dq~.dIVdq~.;IVdq~.;I
В:
B:
   986115541.5751, Layer 4 to 5
                                  Message = e&Ed%ec$Cb#Ba!A`~? }
B:
   986752247.4711, Layer 4 to 5
                                  Message = f8i;l>fBrEuHxK{N~Q$T
   986802794.9773, Layer 4 to 5
                                  Message = gKxqU9\{gD(jN2tX<\sim cG+
                                  Message = h^SI>4*}hi TJ?5+~tj`
B:
   988390208.0283, Layer 4 to 5
   988863461.6193, Layer 4 to 5
B:
                                  Message = ipw \sim (x6 = EiSZbipw \sim (x6)
    988926981.1392, Layer 4 to 5
                                  Message = d%=Vo*C[txja24Mf~9Rk
В:
    988975490.3623, Layer 4 to 5
                                  Message = kfb.X%OyFp<k3^3T~KuB
B:
    990591925.6961, Layer 4 to 5
                                  Message = lJ(dB)[9uS1ml)eC~]:v
   992412377.2039, Layer 4 to 5
                                  Message = m]L;+xhWG6&scmB1~n^M
В:
B: 993334704.7848, Layer 4 to 5
                                  Message = nopqrstuvwxyz{n}~!#$
B: 993359232.9931, Layer 4 to 5
                                  Message = 0$6I[n#5HZm!4GYo~3FX
B: 993643829.7130, Layer 4 to 5
                                  Message = p6Z~EixSw=b(Lp6ZpEix
B: 993851880.0679, Layer 4 to 5
                                  Message = dI~V.d;qI~V.2;qI~q.d
   994638597.8621, Layer 4 to 5
                                  Message = r[E.u H1xbK4{eN7~hr}:
B:
                                  Message = snid YTOJE?:50+&~yts
    994992212.4395, Layer 4 to 5
В:
    995848919.2661, Layer 4 to 5
                                  Message = tfx; HTamy(4AMY3r\sim-9F
B:
   996374075.7578, Layer 4 to 5
                                  Message = uuSq10m-Ki)Ge%Ca~>]z
B:
   996546091.0122, Layer 4 to 5
                                  Message = vHvIxJyKzL\{M|N\}O\sim P!Q
   996992718.2608, Layer 4 to 5
B:
                                  Message = wZ=wbE(iLxpS6wZ=~bE(
   997559823.9645, Layer 4 to 5
                                  Message = dmbVx?4) {peY2C7, ~sh]
B: 997847386.8070, Layer 4 to 5
                                  Message = y!(.4yAGMSY`flrx~'-3
B: 998309027.0997, Layer 4 to 5 Message = z4Ld\{5ze|6Nf\}70g^8Ph
```

```
B:
   999450309.7721, Layer 4 to 5 Message = {Gp;e0Y{NwC17a,U~Js>
                    Layer 4 to 5 Message = |Y6qN+fC|Z7rO,gD\sim[8s]
В:
   999762883.5554,
   999932943.7057,
                    Layer 4 to 5 Message = }fZI7&raO},xgU32~m[J
В:
                    1000104483.7705,
B:
   1000144992.7679, Layer 4 to 5 Message = !3EVhy->Pbs'2J[m~2DU
B:
B: 1000521630.8892, Layer 4 to 5 Message = ##i.Qt9]!Eh-Ps8[~Dg,
B: 1000574673.5670, Layer 4 to 5 Message = $X$d:oFzQ(]3h>sJ~U,a
B: 1000953261.2539, Layer 4 to 5 Message = %kS%$jR:#iQ9!hP8~g07
B:
   1001940556.3917, Layer 4 to 5 Message = & \ wq&e XRLF?93-'~xrl
                     Layer 4 to 5
                                   Message = '2=IT'kv$x:FQ]hs\sim,7C
   1002728679.8754,
В:
                     Layer 4 to 5
   1004914798.4443,
                                   Message = (Eb \sim = Z (6SpxLi (Eb \sim = Zw))
                     Layer 4 to 5
                                   Message = df(V'U\&)%S$R2Q3P~O}N
B:
   1005088364.4567,
                     Layer 4 to 5
B:
   1007098436.4695,
                                   Message = *jL.nP2r*6vX:z]>~aC%
B: 1008011704.4685,
                     Layer 4 to 5 Message = +|pdWK>2&+k RF9-~rfY
B: 1008101737.6734, Layer 4 to 5 Message = ,16;AFKPUZ,ejoty~&+0
B: 1008545399.2197, Layer 4 to 5 Message = -DZq*AWn'=T-$:Qh~7Ne
   1009182650.1407,
                    Layer 4 to 5 Message = .V~Iq;d.V~Iq.d.V~Iq;
B:
                    Layer 4 to 5 Message = xiE~Z6pL(b=wSxiE~Z6p
   1009286175.4533,
В:
   1009579766.4945,
                    Layer 4 to 5
                                   Message = d\{iVD1|jWE2\}2X03\sim1YG
   1009721781.3140,
                    Layer 4 to 5
                                   Message = 10x.-,+*) ('&%$\$\$1~}|{
   1010443002.7321, Layer 4 to 5 Message = 2fSdt'7HXiy,<M3n21BR
B:
   1010783614.3710, Layer 4 to 5 Message = 3Uw;^!Df*Ln2Tv:]~3e)
B:
B: 1010841156.6593, Layer 4 to 5 Message = 4h=qGzP&Yxc8lBuK~T4^
B: 1011547977.3790, Layer 4 to 5 Message = 5zbI0u]D+pW>&kR9~fM5
B: 1013256970.2755, Layer 4 to 5 Message = 6x(~wpibZSLE=6x(~wpi
B: 1013315052.4213, Layer 4 to 5 Message = d7LVaku!, 6AK2^{+} t^{-+} 5?
                     Layer 4 to 5 Message = 8T8.Jf$?[w5Qm+Gc~<Xt
B:
   1014065353.3181,
   1014091409.5723,
                     Layer 4 to 5
                                  Message = 9g693a0^-Z*W'T$Q~N\{K
B:
   1014694110.3957,
                    Layer 4 to 5 Message = :yZ;:[<{]=|^>} ?^A!
                    Layer 4 to 5 Message = ;f~qd;I;.~qdVI3.~qdV
B: 1014832125.1833,
B: 1016231416.0523, Layer 4 to 5 Message = <AEIMQ<Y^bfjnrvz~%)-
B: 1016278473.9332, Layer 4 to 5 Message = Si \sim 6Lb = xEZp (Si \sim 6Lb
B: 1016515514.9836, Layer 4 to 5 Message = dfxV}Gn7>(Ov2g0W~Ho8
B: 1016860567.4997,
                    Layer 4 to 5 Message = ?xS.gBzU0?D|W2kF~Y4m
                    Layer 4 to 5
   1017308243.8127,
                                   Message = A-wdP<)s`LA%o[H4~kWD
В:
   1017958974.8678,
                    Layer 4 to 5
                                   Message = B?=;97531x-B)'%\#~|zx
                    Layer 4 to 5
B:
   1018010492.8594,
                                   Message = CRbq#2BQap!1CP`o~0?0
   1018732190.0118, Layer 4 to 5 Message = De(Ij-No2St7XD<^~Bc&
В:
B: 1019499419.1778, Layer 4 to 5 Message = EfL~S(Zxb6i=pEEL~S(Z
B: 1020042530.1155, Layer 4 to 5 Message = d,pV<#gM3w^D2nTF~eK1
B: 1022774842.3085, Layer 4 to 5 Message = G>6.&{skcZRJB91})Gvnf
   1023444482.3243, Layer 4 to 5 Message = HQZdmv!+4=GPYclu~H3<
B:
                     Layer 4 to 5 Message = Id~; Vq.Id~; Vq.Id~; Iq
B:
   1023614582.5378,
                     Layer 4 to 5
   1024792440.1107,
                                   Message = JvEq?l:g5b0]+W&R~MyJ
   1025150509.6266,
                     Layer 4 to 5
                                   Message = K+iI)gG'eE%cC#aA~ >|
B:
   1025184532.9608,
                    Layer 4 to 5
                                  Message = LLx~pbSE6(wiZL=x~pbS
                    Layer 4 to 5 Message = dPMVY] `cfilo2ux{~$'*
B: 1025305066.6313,
B: 1025788185.4173,
                    Layer 4 to 5 Message = NfwNCWl#7Lau, A3j~5J
B: 1025826205.5867,
                    Layer 4 to 5 Message = Ou=dORxAgxU{Dj2X~Gm5
                    Layer 4 to 5 Message = P*b;sP' 8pJ$[5mG~X2j
B: 1026429753.9193,
                    Layer 4 to 5
                                   Message = Q<(q]HQ|hS>*s J5~jUA
   1027496055.5519,
B:
                     Layer 4 to 5
                                   Message = ROLIFC?R9630-*'$~{xu
   1028792000.4238,
   1029312766.5533,
                     Layer 4 to 5
                                   Message = Sbp~x=LZSw (6ESbp~x=L
B:
   1029563780.7180,
                    Layer 4 to 5
                                   Message = dt6Vv8Xx:Tz<2|> ~Aa#
   1030048363.1707,
B:
                    Layer 4 to 5
                                   Message = U) Z. `3e8j=UCtHyM~R&W
   1030458409.8798, Layer 4 to 5 Message = V;~dI.qV;~dV.qV;~dI.
B:
  1030900583.0628, Layer 4 to 5
                                   Message = WfE; 2) }tkbXOW<3*~ulc</pre>
B: 1031079150.0850,
                     Layer 4 to 5
                                   Message = Xaiqy$, 4<EMU^Xnv~)19</pre>
B: 1031400285.2296, Layer 4 to 5 Message = YsxIc|8R1(B[u1Ye~:Tn
B: 1031567840.2030, Layer 4 to 5 Message = Z(S~LwEp=i6bxZ(Z~LwE
```

```
B: 1031848936.1290, Layer 4 to 5 Message = d:wV5rQ0mL+h2&cB[^<y
                     Layer 4 to 5 Message = ]M=.|m^N>x}n_0?0~] P
   1032184036.0484,
   1032619173.3335,
                     Layer 4 to 5
                                   Message = ^`bdfhjlnprtvxz|~#^'
B: 1032702176.6729, Layer 4 to 5 Message = _r(;Ocv,?Sgz0DWk~4H_B: 1032977766.9888, Layer 4 to 5 Message = `'Lq8^%Jo6[#Hm4Y~Fk2
B: 1033325332.1916, Layer 4 to 5 Message = aapI!X1hAwP) `83H~W0g
B: 1033550383.3257, Layer 4 to 5 Message = bLb~iS=(pZExwbL6~iS=
B: 1033726459.3371, Layer 4 to 5 Message = d ZcRNJFB=952-)%~zvr
B: 1034996350.7391, Layer 4 to 5 Message = dq~.dIVdq~.;IVdq~.;I
                    Layer 4 to 5
   1035324457.6450,
                                   Message = e&Ed%ec$Cb#Ba!A`~? }
В:
                     Layer 4 to 5
   1035395971.2557,
                                   Message = f8i;l>fBrEuHxK{N~Q$T
                     Layer 4 to 5
   1036792352.9593,
B:
                                   Message = gKxqU9\{gD(jN2tX<\sim cG+
B: 1037137983.6126,
                    Layer 4 to 5 Message = h^SI>4*}hi TJ?5+~tj`
B: 1038045679.2267, Layer 4 to 5 Message = ipw \sim (x6=EiSZbipw \sim (x6))
B: 1038593369.4870, Layer 4 to 5 Message = df=Vo*C[txja243f~9Rk
B: 1039437015.8747, Layer 4 to 5 Message = k7b.X%OyFp<k3^*T~KuB
B: 1039798542.5674, Layer 4 to 5 Message = IJ(dB)[9uS1ml)eC^{-}:v
                    Layer 4 to 5 Message = m]L;+xhWG6&scmB1~n^M
   1042441933.1449,
В:
                    Layer 4 to 5 Message = nopqrstuvwxyz{n}~!#$
   1042937498.6906,
   1044322419.4254,
                     Layer 4 to 5
                                   Message = 0$6I[n#5HZm!4GYo~3FX
   1044878056.8416, Layer 4 to 5 Message = p6Z~EixSw=b(Lp6ZpEix
B:
B: 1045453696.5637, Layer 4 to 5 Message = dI~V.d;qI~V.2;qI~q.d
B: 1045695273.1594, Layer 4 to 5 Message = r[E.u_H1xbK4{eN7~hr}:
B: 1047692256.9234, Layer 4 to 5 Message = sfid YTOJE?:503&~yts
B: 1048430897.8222, Layer 4 to 5 Message = t#x; HTamy (4AMYfr~-9F)
B: 1049101132.5357, Layer 4 to 5 Message = uuSq10m-Ki)Ge%Ca~>]z
   1049291696.0728,
                     Layer 4 to 5 Message = vHvIxJyKzL\{M|N\}O\sim P!Q
В:
   1049899366.8582,
                     Layer 4 to 5
                                   Message = wZ=wbE(iLxpS6wZ=~bE(
                    Layer 4 to 5 Message = dmbVx?4) {peY2C7,~sh]
B:
   1050267529.0717,
B: 1050496101.9194, Layer 4 to 5 Message = y!(.4yAGMSY`flrx~'-3
B: 1051071691.5419, Layer 4 to 5 Message = z4Ld\{5ze|6Nf\}70q^8Ph
B: 1052215486.5210, Layer 4 to 5 Message = {Gp;e0Y{NwCl7a,U~Js>
B: 1052402023.2779, Layer 4 to 5 Message = |f6qN+fC|Z7r0,3D^{-}[8s]
B: 1052534566.1742,
                    Layer 4 to 5 Message = }1ZI7&raO},xgUD2~m[J
                                   Layer 4 to 5
   1053800509.9963,
   1054161091.5345,
                     Layer 4 to 5
                                   Message = !3EVhy->Pbs'2J[m~2DU
                    Layer 4 to 5
B:
   1054889298.7002,
                                   Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
   1054966313.0885, Layer 4 to 5 Message = $X$d:oFzQ(]3h>sJ~U,a
В:
B: 1055191917.0583, Layer 4 to 5 Message = %kS%$jR:#iQ9!hP8~g07
B: 1055672580.5900, Layer 4 to 5 Message = & \ wq&e XRLF?93-'~xrl
B: 1055937155.7736, Layer 4 to 5 Message = '2=IT'kv$x:FQ]hs~,7C
B: 1056777364.6141, Layer 4 to 5 Message = (fb~=Z(6SpxLi(3b~=Zw
B: 1056923377.4894, Layer 4 to 5 Message = dW(V'U&)%S$R2Q!P~O}N
                     Layer 4 to 5
                                   Message = *jL.nP2r*6vX:z]>~aC%
   1058998515.4557,
   1059448623.8118,
                     Layer 4 to 5
                                   Message = +|pdWK>2&+k RF9-~rfY
B:
   1061185446.3181,
                    Layer 4 to 5
                                   Message = ,16;AFKPUZ,ejoty~&+0
                    Layer 4 to 5 Message = -DZq*AWn'=T-$:Qh~7Ne
B: 1061352505.2202,
B: 1062285738.6801, Layer 4 to 5 Message = .V~Iq;d.V~Iq.d.V~Iq;
B: 1062976369.8921, Layer 4 to 5 Message = xiE~Z6pL(b=wSxiE~Z6p
B: 1063005936.7724, Layer 4 to 5 Message = d{iVD1|jWE2}2X03~1YG
B: 1063058998.3628, Layer 4 to 5 Message = 1fx.-,+*) ('&%$31~}|{
                    Layer 4 to 5
                                   Message = 2CSdt'7HXiy, < M^n21BR</pre>
   1063661109.5517,
                                   Message = 3Uw; ^!Df*Ln2Tv:]~3e)
   1063949654.7160,
                     Layer 4 to 5
B:
   1065528143.9558,
                    Layer 4 to 5
                                   Message = 4h=qGzP&Yxc8lBuK~T4^
B:
   1065617700.1898, Layer 4 to 5
                                   Message = 5zbI0u]D+pW>&kR9~fM5
B: 1065741760.5684, Layer 4 to 5 Message = 6x(~wpibZSLE=6x(~wpi
B: 1066757535.6674, Layer 4 to 5
                                   Message = d7LVaku!,6AK2`jt~+5?
B: 1067001161.1934, Layer 4 to 5 Message = 8T8.Jf$?[w5Qm+Gc~<Xt
B: 1067896945.5979, Layer 4 to 5 Message = 9g693a0^-Z*W'T$Q~N{K
B: 1068309577.1553, Layer 4 to 5 Message = :fZ;:[\{ \} = |^{>} \} 3?^{`}A!
```

```
B: 1068856247.8931, Layer 4 to 5 Message = ;.~qd;I;.~qdVI;.~qdV
                          Layer 4 to 5 Message = <AEIMQ<Y^bfjnrvz~%) -</pre>
В:
    1070291970.5426,
    1070533549.3820,
                         Layer 4 to 5
                                          Message = =Si\sim6Lb=xEZp(=Si\sim6Lb
    1071200218.4644,
                         Layer 4 to 5 Message = dfxV}Gn7>(Ov2g0W~Ho8
B: 1071412355.7067,
                        Layer 4 to 5 Message = ?xS.gBzU0?D|W2kF~Y4m
B: 1071751484.2496, Layer 4 to 5 Message = A-wdP<)s`LA%o[H4~kWD
B: 1073303586.6707, Layer 4 to 5 Message = B?=;97531x-B)'%#~|zx
B: 1073370145.8240, Layer 4 to 5 Message = CRbq#2BQap!1CP`o~0?0
B: 1073779749.5238, Layer 4 to 5 Message = Df(Ij-No2St7XD3^~Bc&
                          Layer 4 to 5
B:
   1074467495.0345,
                                           Message = EwL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL) )))
                          Layer 4 to 5
    1075644858.1611,
                                           Message = d, pV < \#gM3w^D2nTF \sim eK1
                          Layer 4 to 5
    1076297085.2694,
B:
                                           Message = G>6.&{skcZRJB91)Gvnf
                         Layer 4 to 5
B: 1076911881.6444,
                                          Message = HQZdmv!+4=GPYclu~H3
B: 1076984896.3437,
                         Layer 4 to 5 Message = Id~; Vq.Id~; Vq.Id~; Iq
B: 1077310970.1737, Layer 4 to 5 Message = JvEq?l:g5b0]+W&R~MyJ
B: 1077700992.2213, Layer 4 to 5 Message = K+iI)qG'eE%cC#aA~ >|
B: 1077768533.1074, Layer 4 to 5 Message = LLx~pbSE6(wiZL=x~pbS
   1077892092.9150,
                         Layer 4 to 5 Message = dfMVY] `cfilo2u3{~$'*
B:
                         Layer 4 to 5 Message = NcwNCWl#7Lau, AUj~5J
    1078104178.8664,
    1078432313.6427,
                         Layer 4 to 5
                                          Message = Ou=dORxAgxU{Dj2X~Gm5
B:
    1078922993.9055, Layer 4 to 5 Message = P*b;sP' 8pJ$[5mG~X2j
B: 1079058554.0868, Layer 4 to 5 Message = Q<(q]HQ|hS>*s J5~jUA
B: 1079528231.4500, Layer 4 to 5 Message = ROLIFC?R9630-*'$~{xu
B: 1080621986.1484, Layer 4 to 5 Message = Sbp~x=LZSw(6ESbp~x=L
B: 1080853493.5185, Layer 4 to 5 Message = dt6Vv8Xx:Tz<2|> ~Aa#
B: 1081188089.8184, Layer 4 to 5 Message = U)Z.~3e8j=UCtHyM~R&W
                          Layer 4 to 5 Message = Vf~dI.qV;~dV.q3;~dI.
B:
   1082331990.5483,
    1082453581.1191,
                          Layer 4 to 5 Message = WNE;2)}tkbXOW<3*~ulc</pre>
                         Layer 4 to 5 Message = Xaiqy$,4<EMU^Xnv~)19
B:
    1082770205.8729,
B: 1083356289.8412,
                         Layer 4 to 5 Message = YsxIc|8Rl(B[u1Ye~:Tn
                        Layer 4 to 5 Message = Z(S~LwEp=i6bxZ(Z~LwE
B: 1084010102.5572,
B: 1084765956.3242, Layer 4 to 5 Message = d:wV5rQ0mL+h2&cB[^<y
B: 1085009044.5936, Layer 4 to 5 Message = ]M=.|m^N>x}n O?0~]`P
B: 1085665672.4151,
                         Layer 4 to 5 Message = ^`bdfhjlnprtvxz|~#^'
                                           Message = r(;Ocv,?Sgz0DWk~4H
                         Layer 4 to 5
   1087182990.8285,
                                           Message = `fLq8^%Jo6[#Hm3Y~Fk2
    1087391625.1704,
                         Layer 4 to 5
                         Layer 4 to 5
B:
    1087461152.1671,
                                           Message = aapI!X1hAwP) `8oH~W0g
   1087722258.1893,
                         Layer 4 to 5 Message = bLb~iS=(pZExwbL6~iS=
В:
B: 1087904343.7848, Layer 4 to 5 Message = d ZcRNJFB=952-)%~zvr
B: 1088572439.9723, Layer 4 to 5 Message = dq~.dIVdq~.;IVdq~.;I
B: 1089156155.0938, Layer 4 to 5 Message = e&Ed%ec$Cb#Ba!A`~?}
B: 1089410237.2244, Layer 4 to 5 Message = f8i;1>fBrEuHxK{N~Q$T
                          Layer 4 to 5 Message = gKxqU9{gD(jN2tX<~cG+</pre>
B:
   1090352040.0494,
                          Layer 4 to 5
                                           Message = h^SI>4*hi TJ?5+~tj`
    1092830255.5609,
    1093275359.1293,
                          Layer 4 to 5
                                           Message = ifw \sim (x6 = EiSZbi3w \sim (x6)
B:
    1093317880.4785,
                         Layer 4 to 5
                                          Message = d%=Vo*C[txja24Mf~9Rk
                         Layer 4 to 5 Message = k7b.X%OyFp<k3^*T~KuB
B: 1093638423.4538,
B: 1095320235.7038,
                         Layer 4 to 5 Message = lJ(dB)[9uS1ml)eC~]:v
B: 1096776046.7741, Layer 4 to 5 Message = m]L;+xhWG6&scmB1~n^M
B: 1097034073.7975,
                         Layer 4 to 5 Message = nopqrstuvwxyz{n}~!#$
                         Layer 4 to 5 Message = o$6I[n#5HZm!4GYo~3FX
   1097488689.4789,
B:
                         Layer 4 to 5 Message = p6Z~EixSw=b(Lp6ZpEix
    1097708768.1552,
    1097778799.6643,
                         Layer 4 to 5
                                           Message = dI~V.d;qI~V.2;qI~q.d
                         Layer 4 to 5 Message = rfE.u H1xbK4{e37~hr:
    1098571887.9207,
    1099328997.4755,
                         Layer 4 to 5
B:
                                          Message = snid YTOJE?:50+&~yts
B: 1099509055.6394, Layer 4 to 5 Message = t # x; \overline{H} Tamy (4AMY fr \sim -9F
B: 1099597589.7902, Layer 4 to 5 Message = uuSq10m-Ki)Ge%Ca~>]z
B: 1099678612.1468, Layer 4 to 5 Message = vHvIxJyKzL{M|N}O~P!Q
B: 1100693882.9083, Layer 4 to 5 Message = wZ=wbE(iLxpS6wZ=~bE(
B: 1100733911.7011, Layer 4 to 5 Message = dmbVx?4) {peY2C7,~sh]
```

```
B: 1101243091.4934, Layer 4 to 5 Message = y!(.4yAGMSY`flrx~'-3
Printing the contents of the Simulation Event Q
Event Time = 1101249589.001 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event {\tt Q}
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
```

```
Printing the contents of the Simulation Event Q
Event Time = 1101257589.001 A: Timer
Printing the contents of the Simulation Event Q
```

```
Printing the contents of the Simulation Event Q
```

Printing	the	contents	of	the	Simulation	Event	Q
Printing	the	contents	of	the	Simulation	Event	Q
Printing	the	contents	of	the	Simulation	Event	Q
Printing	the	contents	of	the	Simulation	Event	Q
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Printing	the	contents	of	the	Simulation	Event	Q
Printing	the	contents	of	the	Simulation	Event	Q
Printing	the	contents	of	the	Simulation	Event	Q
Printing	the	contents	of	the	Simulation	Event	Q
Printing	the	contents	of	the	Simulation	Event	Q
Printing	the	contents	of	the	Simulation	Event	Q
Printing	the	contents	of	the	Simulation	Event	Q
Printing	the	contents	of	the	Simulation	Event	Q
Printing	the	contents	of	the	Simulation	Event	Q
Printing	the	contents	of	the	Simulation	Event	Q
Printing	the	contents	of	the	Simulation	Event	Q
Printing	the	contents	of	the	Simulation	Event	Q
_		contents 110128108			Simulation A: Timer	Event	Q

```
Printing the contents of the Simulation Event Q
Event Time = 1101284089.001 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 1101288589.001 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
```

```
Printing the contents of the Simulation Event Q
Event Time = 1101297089.001 A: Timer
Printing the contents of the Simulation Event Q
```

Event Time = 1101299089.001 A: Timer

```
Printing the contents of the Simulation Event Q
Event Time = 1101305089.001 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 1101305089.001 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 1101306096.461 A: Timer
B: 1101305602.4438, Layer 4 to 5 Message = z4Ld{5ze|6Nf}{70g}^8Ph
```

B: 1101986411.2097, Layer 4 to 5 Message = {fp;e0Y{NwCl7a3U~Js>B: 1102356976.7964, Layer 4 to 5 Message = |Y6qN+fC|Z7rO,gD~[8s]

Simulator terminated at time 1102357474.451771 after receiving 2000 msgs at layer5 Simulator Analysis: Number of messages sent from 5 to 4:2004

Number of messages received at Layer 5, side A: 0

Number of messages received at Layer 5, side B: 2000

Number of messages incorrectly received at layer 5: 0

Number of packets entering the network: 2448539

Average number of packets already in network:

Number of packets that the network lost: 2204098

Number of packets that the network corrupted: 219958

Number of packets that the network put out of order: 219886