----- Network Simulator Version   2.3 --------

Enter the number of messages to simulate: 100
Packet loss probability [enter number between 0.0 and 1.0]: 0.1
Packet corruption probability [0.0 for no corruption]: 0.2
Packet out-of-order probability [0.0 for no out-of-order]: 0.1
Average time between messages from sender's layer5 [> 0.0]: 1000
Enter Level of tracing desired: 2
Do you want actions randomized: (1 = yes, 0 = no)? 0
Do you want Bidirectional: (1 = yes, 0 = no)? 0
Input parameters:
Number of Messages = 100 Lost Packet Prob. =   0.100
Corrupt Packet Prob. =   0.200 Out Of Order Prob. =   0.100
Ave. time between messages = 1000.00 Trace level = 2
Randomize = 0 Bi-directional = 0

A: 1080.0336, Layer 5 to 4 Message = !fEVhy->Pbs'2J3m~2DU
B: 1088.3078, Layer 4 to 5 Message = !fEVhy->Pbs'2J3m~2DU
A: 1204.7785, Layer 5 to 4 Message = ##i.Qt9]!Eh-Ps8[~Dg,
B: 1209.7259, Layer 4 to 5 Message = ##i.Qt9]!Eh-Ps8[~Dg,
A: 1261.9993, Layer 5 to 4 Message = Xd:oFzQ(]3h>sJ~U,a
B: 1290.4032, Layer 4 to 5 Message = Xd:oFzQ(]3h>sJ~U,a
A: 1507.0586, Layer 5 to 4 Message = %kS%$jR:#iQ9!hP8~gO7
A: 1508.1452, Layer 5 to 4 Message = &}wq&e_XRLF?93-'~xrl
A: 1673.7616, Layer 5 to 4 Message = '2=IT'kv$x:FQ]hs~,7C
B: 1726.0730, Layer 4 to 5 Message = %kS%$jR:#iQ9!hP8~gO7
B: 1937.1540, Layer 4 to 5 Message = &}wq&e_XRLF?93-'~xrl
B: 2111.9468, Layer 4 to 5 Message = '2=IT'kv$x:FQ]hs~,7C
A: 2575.9625, Layer 5 to 4 Message = (Eb~=Z(6SpxLi(Eb~=Zw
B: 2591.7948, Layer 4 to 5 Message = (Eb~=Z(6SpxLi(Eb~=Zw
A: 3405.3562, Layer 5 to 4 Message = dW(V'U&)%S$R2Q!P~O}N
B: 3412.7175, Layer 4 to 5 Message = dW(V'U&)%S$R2Q!P~O}N
A: 4292.5370, Layer 5 to 4 Message = *jL.nP2r*6vX:z]>~aC%
B: 4302.1099, Layer 4 to 5 Message = *jL.nP2r*6vX:z]>~aC%
A: 5729.3583, Layer 5 to 4 Message = +fpdWK>2&+k_RF3-~rfY
B: 5747.8219, Layer 4 to 5 Message = +fpdWK>2&+k_RF3-~rfY
A: 6274.0857, Layer 5 to 4 Message = ,16;AFKPUZ,ejoty~&+0
B: 6283.8847, Layer 4 to 5 Message = ,16;AFKPUZ,ejoty~&+0
A: 7661.6740, Layer 5 to 4 Message = -DZq*AWn'=T-$:Qh~7Ne
B: 7675.1454, Layer 4 to 5 Message = -DZq*AWn'=T-$:Qh~7Ne
A: 9374.4479, Layer 5 to 4 Message = .V~Iq;d.V~Iq.d.V~Iq;
B: 9403.3339, Layer 4 to 5 Message = .V~Iq;d.V~Iq.d.V~Iq;
A: 11198.1560, Layer 5 to 4 Message = xiE~Z6pL(b=wSxiE~Z6p
B: 11210.2663, Layer 4 to 5 Message = xiE~Z6pL(b=wSxiE~Z6p
A: 11711.2074, Layer 5 to 4 Message = d{iVD1|jWE2}2X03~lYG
B: 11920.8322, Layer 4 to 5 Message = d{iVD1|jWE2}2X03~lYG

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A:  12906.5350,  Layer 5 to 4  Message = 10x.-,+*)('&%$#1~}|{
B:  12924.5411,  Layer 4 to 5  Message = 10x.-,+*)('&%$#1~}|{
A:  13760.4922,  Layer 5 to 4  Message = 2CSdt'7HXiy,<M^n21BR
A:  14139.8671,  Layer 5 to 4  Message = 3Uw;^!Df*Ln2Tv:]~3e)
B:  14591.4607,  Layer 4 to 5  Message = 2CSdt'7HXiy,<M^n21BR
B:  14784.2735,  Layer 4 to 5  Message = 3Uw;^!Df*Ln2Tv:]~3e)
A:  15306.7072,  Layer 5 to 4  Message = 4f=qGzP&Yxc8lB3K~T4^
B:  15509.6925,  Layer 4 to 5  Message = 4f=qGzP&Yxc8lB3K~T4^
A:  16638.4226,  Layer 5 to 4  Message = 5zbI0u]D+pW>&kR9~fM5
B:  16654.1478,  Layer 4 to 5  Message = 5zbI0u]D+pW>&kR9~fM5
A:  17352.5064,  Layer 5 to 4  Message = 6x(~wpibZSLE=6x(~wpi
B:  17369.4105,  Layer 4 to 5  Message = 6x(~wpibZSLE=6x(~wpi
A:  18589.6503,  Layer 5 to 4  Message = d7LVaku!,6AK2`jt~+5?
B:  18611.4854,  Layer 4 to 5  Message = d7LVaku!,6AK2`jt~+5?
A:  19277.5719,  Layer 5 to 4  Message = 8T8.Jf$?[w5Qm+Gc~<Xt
B:  19297.8083,  Layer 4 to 5  Message = 8T8.Jf$?[w5Qm+Gc~<Xt
A:  21006.5079,  Layer 5 to 4  Message = 9g693a0^-Z*W'T$Q~N{K
B:  21012.3129,  Layer 4 to 5  Message = 9g693a0^-Z*W'T$Q~N{K
A:  21195.7598,  Layer 5 to 4  Message = :yZ;:[<{]=|^>}_?~`A!
A:  21570.6127,  Layer 5 to 4  Message = ;.~qd;I;.~qdVI;.~qdV
B:  21612.1821,  Layer 4 to 5  Message = :yZ;:[<{]=|^>}_?~`A!
B:  21796.8245,  Layer 4 to 5  Message = ;.~qd;I;.~qdVI;.~qdV
A:  22736.6283,  Layer 5 to 4  Message = <AEIMQ<Y^bfjnrvz~%)-
B:  22747.7553,  Layer 4 to 5  Message = <AEIMQ<Y^bfjnrvz~%)-
A:  23233.0234,  Layer 5 to 4  Message = =fi~6Lb=xEZp(=3i~6Lb
B:  23238.0137,  Layer 4 to 5  Message = =fi~6Lb=xEZp(=3i~6Lb
A:  23634.3631,  Layer 5 to 4  Message = dfxV}Gn7>(Ov2g0W~Ho8
B:  23843.8072,  Layer 4 to 5  Message = dfxV}Gn7>(Ov2g0W~Ho8
A:  25146.5957,  Layer 5 to 4  Message = ?xS.gBzU0?D|W2kF~Y4m
B:  25361.9286,  Layer 4 to 5  Message = ?xS.gBzU0?D|W2kF~Y4m
A:  26703.2172,  Layer 5 to 4  Message = A-wdP<)s`LA%o[H4~kWD
B:  26711.5429,  Layer 4 to 5  Message = A-wdP<)s`LA%o[H4~kWD
A:  27064.0561,  Layer 5 to 4  Message = B?=;97531x-B)'%#~|zx
B:  27093.1895,  Layer 4 to 5  Message = B?=;97531x-B)'%#~|zx
```

Printing the contents of the Simulation Event Q
Event Time = 27264.056 A: Timer
Event Time = 28744.966 A: LAYER 5

Printing the contents of the Simulation Event Q

```
A:  28744.9665,  Layer 5 to 4  Message = CRbq#2BQap!1CP`o~0?O
```

Printing the contents of the Simulation Event Q
Event Time = 29999.217 A: LAYER 5

Printing the contents of the Simulation Event Q
Event Time = 29144.966 A: Timer
Event Time = 29999.217 A: LAYER 5

B: 28965.8201, Layer 4 to 5 Message = CRbq#2BQap!1CP`o~0?O
A: 29999.2166, Layer 5 to 4 Message = De(Ij-No2St7XD<^~Bc&
B: 30020.9657, Layer 4 to 5 Message = De(Ij-No2St7XD<^~Bc&
A: 31962.8337, Layer 5 to 4 Message = EwL~S(Zxb6i=pEEL~S(Z
B: 32185.3590, Layer 4 to 5 Message = EwL~S(Zxb6i=pEEL~S(Z
A: 33466.2048, Layer 5 to 4 Message = d,pV<#gM3w^D2nTF~eK1
B: 33471.3683, Layer 4 to 5 Message = d,pV<#gM3w^D2nTF~eK1
A: 34070.2345, Layer 5 to 4 Message = Gf6.&{skcZRJB93)Gvnf
A: 34294.6172, Layer 5 to 4 Message = HQZdmv!+4=GPYclu~H3<
B: 34297.2548, Layer 4 to 5 Message = Gf6.&{skcZRJB93)Gvnf
B: 34304.0011, Layer 4 to 5 Message = HQZdmv!+4=GPYclu~H3<
A: 35645.0031, Layer 5 to 4 Message = Id~;Vq.Id~;Vq.Id~;Iq
B: 35654.8178, Layer 4 to 5 Message = Id~;Vq.Id~;Vq.Id~;Iq
A: 35707.6742, Layer 5 to 4 Message = JvEq?l:g5b0]+W&R~MyJ
B: 35731.3375, Layer 4 to 5 Message = JvEq?l:g5b0]+W&R~MyJ
A: 37536.0084, Layer 5 to 4 Message = K+iI)gG'eE%cC#aA~_>|
B: 37759.9497, Layer 4 to 5 Message = K+iI)gG'eE%cC#aA~_>|
A: 38104.5455, Layer 5 to 4 Message = LLx~pbSE6(wiZL=x~pbS
B: 38129.1873, Layer 4 to 5 Message = LLx~pbSE6(wiZL=x~pbS
A: 38666.4877, Layer 5 to 4 Message = dPMVY]`cfilo2ux{~$'*
B: 38674.8649, Layer 4 to 5 Message = dPMVY]`cfilo2ux{~$'*
A: 39111.4506, Layer 5 to 4 Message = NcwNCWl#7Lau,AUj~5J_
B: 39331.7987, Layer 4 to 5 Message = NcwNCWl#7Lau,AUj~5J_
A: 39472.8496, Layer 5 to 4 Message = Ou=dORxAgxU{Dj2X~Gm5
B: 39483.0877, Layer 4 to 5 Message = Ou=dORxAgxU{Dj2X~Gm5
A: 39679.4202, Layer 5 to 4 Message = Pfb;sP'_8pJ$[53G~X2j
B: 39693.3912, Layer 4 to 5 Message = Pfb;sP'_8pJ$[53G~X2j
A: 39863.7713, Layer 5 to 4 Message = Q<(q]HQ|hS>*s_J5~jUA
B: 39873.7602, Layer 4 to 5 Message = Q<(q]HQ|hS>*s_J5~jUA
A: 40489.4459, Layer 5 to 4 Message = ROLIFC?R9630-*'$~{xu
B: 40517.6283, Layer 4 to 5 Message = ROLIFC?R9630-*'$~{xu
A: 41222.8922, Layer 5 to 4 Message = Sbp~x=LZSw(6ESbp~x=L
B: 41232.6980, Layer 4 to 5 Message = Sbp~x=LZSw(6ESbp~x=L
A: 42056.6978, Layer 5 to 4 Message = dt6Vv8Xx:Tz<2|>_~Aa#
B: 42071.3572, Layer 4 to 5 Message = dt6Vv8Xx:Tz<2|>_~Aa#
A: 42806.8591, Layer 5 to 4 Message = U)Z.`3e8j=UCtHyM~R&W
B: 42832.7618, Layer 4 to 5 Message = U)Z.`3e8j=UCtHyM~R&W
A: 42972.5707, Layer 5 to 4 Message = V;~dI.qV;~dV.qV;~dI.
B: 43392.0764, Layer 4 to 5 Message = V;~dI.qV;~dV.qV;~dI.
A: 44256.8769, Layer 5 to 4 Message = WNE;2)}tkbXOW<3*~ulc

B: 44677.6917, Layer 4 to 5 Message = WNE;2)}tkbXOW<3*~ulc
A: 46105.5132, Layer 5 to 4 Message = Xaiqy$,4<EMU^Xnv~)19
B: 46112.6907, Layer 4 to 5 Message = Xaiqy$,4<EMU^Xnv~)19
A: 46465.5807, Layer 5 to 4 Message = YfxIc|8Rl(B[u1Ye~:Tn
B: 46680.0344, Layer 4 to 5 Message = YfxIc|8Rl(B[u1Ye~:Tn
A: 48240.1931, Layer 5 to 4 Message = Z(S~LwEp=i6bxZ(Z~LwE
B: 48868.0396, Layer 4 to 5 Message = Z(S~LwEp=i6bxZ(Z~LwE
A: 49422.6612, Layer 5 to 4 Message = d:wV5rQ0mL+h2&cB[^<y
B: 49630.6579, Layer 4 to 5 Message = d:wV5rQ0mL+h2&cB[^<y
A: 50987.2325, Layer 5 to 4 Message =]M=.|m^N>x}n_O?0~]`P
B: 51010.4527, Layer 4 to 5 Message =]M=.|m^N>x}n_O?0~]`P
A: 52273.6354, Layer 5 to 4 Message = ^`bdfhjlnprtvxz|~#^'
B: 52288.1749, Layer 4 to 5 Message = ^`bdfhjlnprtvxz|~#^'
A: 53604.6923, Layer 5 to 4 Message = _r(;Ocv,?Sgz0DWk~4H_
B: 53631.5099, Layer 4 to 5 Message = _r(;Ocv,?Sgz0DWk~4H_
A: 55308.7053, Layer 5 to 4 Message = `'Lq8^%Jo6[#Hm4Y~Fk2
B: 55324.1525, Layer 4 to 5 Message = `'Lq8^%Jo6[#Hm4Y~Fk2
A: 57042.8537, Layer 5 to 4 Message = aapI!X1hAwP)`8oH~W0g
B: 57070.4401, Layer 4 to 5 Message = aapI!X1hAwP)`8oH~W0g
A: 57772.7539, Layer 5 to 4 Message = bLb~iS=(pZExwbL6~iS=
B: 57801.8778, Layer 4 to 5 Message = bLb~iS=(pZExwbL6~iS=
A: 59117.5209, Layer 5 to 4 Message = dfZcRNJFB=952-3%~zvr
B: 59124.2233, Layer 4 to 5 Message = dfZcRNJFB=952-3%~zvr
A: 60164.2879, Layer 5 to 4 Message = dq~.dIVdq~.;IVdq~.;I
B: 60193.5046, Layer 4 to 5 Message = dq~.dIVdq~.;IVdq~.;I

Printing the contents of the Simulation Event Q
Event Time = 60364.288 A: Timer
Event Time = 61502.951 A: LAYER 5

Printing the contents of the Simulation Event Q
Event Time = 61502.951 A: LAYER 5

Printing the contents of the Simulation Event Q
Event Time = 60564.288 A: Timer
Event Time = 61502.951 A: LAYER 5

Printing the contents of the Simulation Event Q
Event Time = 60564.288 A: Timer
Event Time = 61502.951 A: LAYER 5

Printing the contents of the Simulation Event Q

Event Time = 61502.951 A: LAYER 5

Printing the contents of the Simulation Event Q
Event Time = 60764.288 A: Timer
Event Time = 61502.951 A: LAYER 5

Printing the contents of the Simulation Event Q
Event Time = 60764.288 A: Timer
Event Time = 61502.951 A: LAYER 5

Printing the contents of the Simulation Event Q

A: 61502.9510, Layer 5 to 4   Message = e&Ed%ec$Cb#Ba!A`~?_}

Printing the contents of the Simulation Event Q
Event Time = 61645.846 A: LAYER 5
Event Time = 61702.951 A: Timer

B: 61507.5539, Layer 4 to 5   Message = e&Ed%ec$Cb#Ba!A`~?_}
A: 61645.8463, Layer 5 to 4   Message = f8i;l>fBrEuHxK{N~Q$T
B: 61676.5106, Layer 4 to 5   Message = f8i;l>fBrEuHxK{N~Q$T
A: 61765.8864, Layer 5 to 4   Message = gKxqU9{gD(jN2tX<~cG+
B: 61779.1824, Layer 4 to 5   Message = gKxqU9{gD(jN2tX<~cG+
A: 62820.3011, Layer 5 to 4   Message = h^SI>4*}hi_TJ?5+~tj`
B: 62839.7688, Layer 4 to 5   Message = h^SI>4*}hi_TJ?5+~tj`
A: 64477.2280, Layer 5 to 4   Message = ipw~(x6=EiSZbipw~(x6
B: 64483.1882, Layer 4 to 5   Message = ipw~(x6=EiSZbipw~(x6
A: 66369.4842, Layer 5 to 4   Message = d%=Vo*C[txja24Mf~9Rk
B: 66590.8119, Layer 4 to 5   Message = d%=Vo*C[txja24Mf~9Rk
A: 67816.6172, Layer 5 to 4   Message = k7b.X%OyFp<k3^*T~KuB
B: 67845.0330, Layer 4 to 5   Message = k7b.X%OyFp<k3^*T~KuB
A: 68215.2439, Layer 5 to 4   Message = lf(dB}[9uS1ml)3C~]:v
B: 68218.1102, Layer 4 to 5   Message = lf(dB}[9uS1ml)3C~]:v
A: 68255.4259, Layer 5 to 4   Message = m]L;+xhWG6&scmB1~n^M
B: 68261.4034, Layer 4 to 5   Message = m]L;+xhWG6&scmB1~n^M
A: 69222.4414, Layer 5 to 4   Message = nopqrstuvwxyz{n}~!#$
B: 69228.0530, Layer 4 to 5   Message = nopqrstuvwxyz{n}~!#$
A: 69266.3655, Layer 5 to 4   Message = o$6I[n#5HZm!4GYo~3FX
B: 69273.0765, Layer 4 to 5   Message = o$6I[n#5HZm!4GYo~3FX
A: 69793.4842, Layer 5 to 4   Message = p6Z~EixSw=b(Lp6ZpEix
B: 70023.9325, Layer 4 to 5   Message = p6Z~EixSw=b(Lp6ZpEix
A: 71730.4312, Layer 5 to 4   Message = dI~V.d;qI~V.2;qI~q.d
B: 71751.4346, Layer 4 to 5   Message = dI~V.d;qI~V.2;qI~q.d

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A:  73717.2451,  Layer 5 to 4  Message = r[E.u_H1xbK4{eN7~hr:
B:  73940.9332,  Layer 4 to 5  Message = r[E.u_H1xbK4{eN7~hr:
A:  74145.5350,  Layer 5 to 4  Message = snid_YTOJE?:50+&~yts
B:  74164.0590,  Layer 4 to 5  Message = snid_YTOJE?:50+&~yts
A:  74809.8461,  Layer 5 to 4  Message = t#x;HTamy(4AMYfr~-9F
B:  74840.0437,  Layer 4 to 5  Message = t#x;HTamy(4AMYfr~-9F
A:  75233.7384,  Layer 5 to 4  Message = uuSq1Om-Ki)Ge%3a~>]z
B:  75263.6652,  Layer 4 to 5  Message = uuSq1Om-Ki)Ge%3a~>]z
A:  77215.2173,  Layer 5 to 4  Message = vHvIxJyKzL{M|N}O~P!Q
B:  77216.6000,  Layer 4 to 5  Message = vHvIxJyKzL{M|N}O~P!Q
A:  78788.3456,  Layer 5 to 4  Message = wZ=wbE(iLxpS6wZ=~bE(
B:  78811.7302,  Layer 4 to 5  Message = wZ=wbE(iLxpS6wZ=~bE(
A:  79406.3663,  Layer 5 to 4  Message = dmbVx?4){peY2C7,~sh]
B:  79630.7456,  Layer 4 to 5  Message = dmbVx?4){peY2C7,~sh]
A:  80014.2292,  Layer 5 to 4  Message = y!(.4yAGMSY`flrx~'-3
B:  80244.2859,  Layer 4 to 5  Message = y!(.4yAGMSY`flrx~'-3
A:  80802.7199,  Layer 5 to 4  Message = z4Ld{5ze|6Nf}7Og~8Ph
B:  80823.0313,  Layer 4 to 5  Message = z4Ld{5ze|6Nf}7Og~8Ph
A:  80997.4722,  Layer 5 to 4  Message = {Gp;e0Y{NwCl7a,U~Js>
B:  81204.5045,  Layer 4 to 5  Message = {Gp;e0Y{NwCl7a,U~Js>
A:  82156.2383,  Layer 5 to 4  Message = |Y6qN+fC|Z7rO,gD~[8s
B:  82181.3083,  Layer 4 to 5  Message = |Y6qN+fC|Z7rO,gD~[8s
A:  83073.5435,  Layer 5 to 4  Message = }lZI7&raO},xgUD2~m[J
B:  83103.5097,  Layer 4 to 5  Message = }lZI7&raO},xgUD2~m[J
A:  83282.7951,  Layer 5 to 4  Message = ~fDUgx,=Oa~&7I3l}1CT
B:  83310.3131,  Layer 4 to 5  Message = ~fDUgx,=Oa~&7I3l}1CT
A:  84756.6630,  Layer 5 to 4  Message = !3EVhy->Pbs'2J[m~2DU
B:  84759.2898,  Layer 4 to 5  Message = !3EVhy->Pbs'2J[m~2DU
A:  85804.5486,  Layer 5 to 4  Message = ##i.Qt9]!Eh-Ps8[~Dg,
B:  85825.3074,  Layer 4 to 5  Message = ##i.Qt9]!Eh-Ps8[~Dg,
A:  85913.8333,  Layer 5 to 4  Message = $X$d:oFzQ(]3h>sJ~U,a
B:  86141.6386,  Layer 4 to 5  Message = $X$d:oFzQ(]3h>sJ~U,a
A:  87661.9671,  Layer 5 to 4  Message = %kS%$jR:#iQ9!hP8~gO7
B:  87870.2577,  Layer 4 to 5  Message = %kS%$jR:#iQ9!hP8~gO7
A:  89014.0260,  Layer 5 to 4  Message = &}wq&e_XRLF?93-'~xrl
B:  89043.6666,  Layer 4 to 5  Message = &}wq&e_XRLF?93-'~xrl
A:  89807.4330,  Layer 5 to 4  Message = '2=IT'kv$x:FQ]hs~,7C
B:  89816.0774,  Layer 4 to 5  Message = '2=IT'kv$x:FQ]hs~,7C
A:  90273.8678,  Layer 5 to 4  Message = (Eb~=Z(6SpxLi(Eb~=Zw
B:  90300.2315,  Layer 4 to 5  Message = (Eb~=Z(6SpxLi(Eb~=Zw
```

Printing the contents of the Simulation Event Q
Event Time = 91410.814 A: LAYER 5

Printing the contents of the Simulation Event Q

Event Time = 90673.868 A: Timer
Event Time = 91410.814 A: LAYER 5

Printing the contents of the Simulation Event Q
Event Time = 90673.868 A: Timer
Event Time = 91410.814 A: LAYER 5

Printing the contents of the Simulation Event Q

A: 91410.8139, Layer 5 to 4 Message = dW(V'U&)%S$R2Q!P~O}N

Printing the contents of the Simulation Event Q
Event Time = 91610.814 A: Timer
Event Time = 93126.557 A: LAYER 5

B: 91437.4128, Layer 4 to 5 Message = dW(V'U&)%S$R2Q!P~O}N
A: 93126.5566, Layer 5 to 4 Message = *fL.nP2r*6vX:z3>~aC%
B: 93146.1629, Layer 4 to 5 Message = *fL.nP2r*6vX:z3>~aC%

Simulator terminated at time 93173.074873
 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: 361
  Average number of packets already in network: 0.091
  Number of packets that the network lost: 36
  Number of packets that the network corrupted: 65
  Number of packets that the network put out of order: 36