Packet loss recovery:
Sender rigs each packet with a retransmission timer that will only turn off if acknowledgement from receiver gets received by the sender and the sequence number matching. Retransmission timer sends the packet again and resets itself
Screenshot:

```
 1 /Users/tropicalbeaner/Desktop/DataCommNetworks/venv
   /bin/python /Users/tropicalbeaner/Desktop/
   DataCommNetworks/HW3_RDT_Protocol/
   reliable_data_transfer.py
 2 Started Router
 3 Started Server
 4 Started Client
 5 Transmitting 1
 6 Server Received seq: 1
 7 The message is: 0
 8 Server Establishing base and max seq as 1
 9 Server expanding packets from max_seq: 1 to 1
10 Transmitting 2
11 Server Received seq: 2
12 The message is: 1
13 Server expanding packets from max_seq: 1 to 2
14 Transmitting 3
15 Server Received seq: 3
16 The message is: 2
17 Server expanding packets from max_seq: 2 to 3
18 Transmitting 4
19 Server Received seq: 4
20 The message is: 3
21 Server expanding packets from max_seq: 3 to 4
22 Transmitting 5
23 Server Received seq: 5
24 The message is: 4
25 Server expanding packets from max_seq: 4 to 5
26 Lost packet from receiver to sender
27 Transmitting 6
28 Server Received seq: 6
29 The message is: 5
30 Server expanding packets from max_seq: 5 to 6
31 Transmitting 7
32 Server Received seq: 7
33 The message is: 6
34 Server expanding packets from max_seq: 6 to 7
35 Transmitting 8
36 Server Received seq: 8
37 The message is: 7
38 Server expanding packets from max_seq: 7 to 8
```

```
39 Client confirming packet 1
40 Client confirming packet 2
41 Client confirming packet 3
42 Client confirming packet 4
43 Client confirming packet 6
44 Client confirming packet 7
45 Client confirming packet 8
46 Transmitting 9
47 Server Received seq: 9
48 The message is: 8
49 Server expanding packets from max_seq: 8 to 9
50 Transmitting 10
51 Lost packet from sender to receiver
52 Transmitting 11
53 Lost packet from sender to receiver
54 Transmitting 12
55 Server Received seq: 12
56 The message is: 11
57 Server expanding packets from max_seq: 9 to 12
58 Client confirming packet 9
59 Client confirming packet 12
60 Retransmitting 5 to 127.0.0.1 : 5000
61 Server Received seq: 5
62 The message is: 4
63 Client confirming packet 5
64 Transmitting 13
65 Server Received seq: 13
66 The message is: 12
67 Server expanding packets from max_seq: 12 to 13
68 Transmitting 14
69 Server Received seq: 14
70 The message is: 13
71 Server expanding packets from max_seq: 13 to 14
72 Transmitting 15
73 Lost packet from sender to receiver
74 Transmitting 16
75 Server Received seq: 16
76 The message is: 15
77 Server expanding packets from max_seq: 14 to 16
78 Transmitting 17
79 Server Received seq: 17
```

```
 80 The message is: 16
 81 Server expanding packets from max_seq: 16 to 17
 82 Client confirming packet 13
 83 Client confirming packet 14
 84 Client confirming packet 16
 85 Client confirming packet 17
 86 Retransmitting 10 to 127.0.0.1 : 5000
 87 Server Received seq: 10
 88 The message is: 9
 89 Client confirming packet 10
 90 Retransmitting 11 to 127.0.0.1 : 5000
 91 Lost packet from sender to receiver
 92 Transmitting 18
 93 Lost packet from sender to receiver
 94 Retransmitting 15 to 127.0.0.1 : 5000
 95 Server Received seq: 15
 96 The message is: 14
 97 Client confirming packet 15
 98 Retransmitting 11 to 127.0.0.1 : 5000
 99 Server Received seq: 11
100 The message is: 10
101 Client confirming packet 11
102 Retransmitting 18 to 127.0.0.1 : 5000
103 Server Received seq: 18
104 The message is: 17
105 Server expanding packets from max_seq: 17 to 18
106 Client confirming packet 18
107 Transmitting 19
108 Server Received seq: 19
109 The message is: 18
110 Server expanding packets from max_seq: 18 to 19
111 Transmitting 20
112 Server Received seq: 20
113 The message is: 19
114 Server expanding packets from max_seq: 19 to 20
115 Transmitting 21
116 Server Received seq: 21
117 The message is: 20
118 Server expanding packets from max_seq: 20 to 21
119 Transmitting 22
120 Server Received seq: 22
```

```
121 The message is: 21
122 Server expanding packets from max_seq: 21 to 22
123 Transmitting 23
124 Server Received seq: 23
125 The message is: 22
126 Server expanding packets from max_seq: 22 to 23
127 Transmitting 24
128 Server Received seq: 24
129 The message is: 23
130 Server expanding packets from max_seq: 23 to 24
131 Lost packet from receiver to sender
132 Transmitting 25
133 Server Received seq: 25
134 The message is: 24
135 Server expanding packets from max_seq: 24 to 25
136 Lost packet from receiver to sender
137 Transmitting 26
138 Server Received seq: 26
139 The message is: 25
140 Server expanding packets from max_seq: 25 to 26
141 Client confirming packet 19
142 Client confirming packet 20
143 Client confirming packet 21
144 Client confirming packet 22
145 Client confirming packet 23
146 Client confirming packet 26
147 Transmitting 27
148 Server Received seq: 27
149 The message is: 26
150 Server expanding packets from max_seq: 26 to 27
151 Transmitting 28
152 Server Received seq: 28
153 The message is: 27
154 Server expanding packets from max_seq: 27 to 28
155 Transmitting 29
156 Server Received seq: 29
157 The message is: 28
158 Server expanding packets from max_seq: 28 to 29
159 Transmitting 30
160 Server Received seq: 30
161 The message is: 29
```

```
162 Server expanding packets from max_seq: 29 to 30
163 Client confirming packet 27
164 Client confirming packet 28
165 Client confirming packet 29
166 Client confirming packet 30
167 Retransmitting 24 to 127.0.0.1 : 5000
168 Server Received seq: 24
169 The message is: 23
170 Client confirming packet 24
171 Retransmitting 25 to 127.0.0.1 : 5000
172 Server Received seq: 25
173 The message is: 24
174 Client confirming packet 25
175 Server Received seq: -1
176 The message is: FIN
177 Client is done, sending ack
178 ['0', '1', '2', '3', '4', '5', '6', '7', '8', '9
    ', '10', '11', '12', '13', '14', '15', '16', '17
    ', '18', '19', '20', '21', '22', '23', '24', '25
    ', '26', '27', '28', '29']
179 ACKed end of data, now exiting
180 Done with client
181
```

Packet Corruption Recovery:
Using a checksum that is added on top of the payload and is calculated using the entire payload. Both sender and receiver check the integrity of the packet by taking the first 8 bytes aka the sent checksum and calculating the received checksum with the remainder of the payload. If both checksums do not match, then the packet is then discarded. Nothing is sent out in acknowledgement, if the sender discards an acknowledgement then the sender will eventually retransmit that specific packet. If the receiver discards a packet, then the sender again will eventually retransmit that specific packet.

```
 1 /Users/tropicalbeaner/Desktop/DataCommNetworks/venv
   /bin/python /Users/tropicalbeaner/Desktop/
   DataCommNetworks/HW3_RDT_Protocol/
   reliable_data_transfer.py
 2 Started Router
 3 Started Server
 4 Started Client
 5 Transmitting 1
 6 Corrupted pkt from sender to receiver
 7 Corrupted packet, discarding
 8 Transmitting 2
 9 Server Received seq: 2
10 The message is: 1
11 Server Establishing base and max seq as 2
12 Server expanding packets from max_seq: 2 to 2
13 Transmitting 3
14 Corrupted pkt from sender to receiver
15 Corrupted packet, discarding
16 Transmitting 4
17 Server Received seq: 4
18 The message is: 3
19 Server expanding packets from max_seq: 2 to 4
20 Transmitting 5
21 Server Received seq: 5
22 The message is: 4
23 Server expanding packets from max_seq: 4 to 5
24 Transmitting 6
25 Corrupted pkt from sender to receiver
26 Corrupted packet, discarding
27 Transmitting 7
28 Server Received seq: 7
29 The message is: 6
30 Server expanding packets from max_seq: 5 to 7
31 Transmitting 8
32 Server Received seq: 8
33 The message is: 7
34 Server expanding packets from max_seq: 7 to 8
35 Client confirming packet 2
36 Client confirming packet 4
37 Client confirming packet 5
38 Client confirming packet 7
```

```
39 Client confirming packet 8
40 Retransmitting 1 to 127.0.0.1 : 5000
41 Server Received seq: 1
42 The message is: 0
43 Server rebasing packets where base_seq: 2 to 1
44 Client confirming packet 1
45 Retransmitting 3 to 127.0.0.1 : 5000
46 Server Received seq: 3
47 The message is: 2
48 Client confirming packet 3
49 Retransmitting 6 to 127.0.0.1 : 5000
50 Server Received seq: 6
51 The message is: 5
52 Client confirming packet 6
53 Transmitting 9
54 Server Received seq: 9
55 The message is: 8
56 Server expanding packets from max_seq: 8 to 9
57 Transmitting 10
58 Server Received seq: 10
59 The message is: 9
60 Server expanding packets from max_seq: 9 to 10
61 Transmitting 11
62 Server Received seq: 11
63 The message is: 10
64 Server expanding packets from max_seq: 10 to 11
65 Transmitting 12
66 Server Received seq: 12
67 The message is: 11
68 Server expanding packets from max_seq: 11 to 12
69 Transmitting 13
70 Server Received seq: 13
71 The message is: 12
72 Server expanding packets from max_seq: 12 to 13
73 Corrupted pkt from receiver to sender
74 Transmitting 14
75 Server Received seq: 14
76 The message is: 13
77 Server expanding packets from max_seq: 13 to 14
78 Corrupted pkt from receiver to sender
79 Transmitting 15
```

```
 80 Server Received seq: 15
 81 The message is: 14
 82 Server expanding packets from max_seq: 14 to 15
 83 Transmitting 16
 84 Server Received seq: 16
 85 The message is: 15
 86 Server expanding packets from max_seq: 15 to 16
 87 Client confirming packet 9
 88 Client confirming packet 10
 89 Client confirming packet 11
 90 Client confirming packet 12
 91 Client confirming packet 15
 92 Client confirming packet 16
 93 Transmitting 17
 94 Server Received seq: 17
 95 The message is: 16
 96 Server expanding packets from max_seq: 16 to 17
 97 Transmitting 18
 98 Server Received seq: 18
 99 The message is: 17
100 Server expanding packets from max_seq: 17 to 18
101 Transmitting 19
102 Server Received seq: 19
103 The message is: 18
104 Server expanding packets from max_seq: 18 to 19
105 Corrupted pkt from receiver to sender
106 Transmitting 20
107 Server Received seq: 20
108 The message is: 19
109 Server expanding packets from max_seq: 19 to 20
110 Client confirming packet 17
111 Client confirming packet 18
112 Client confirming packet 20
113 Retransmitting 13 to 127.0.0.1 : 5000
114 Server Received seq: 13
115 The message is: 12
116 Client confirming packet 13
117 Retransmitting 14 to 127.0.0.1 : 5000
118 Server Received seq: 14
119 The message is: 13
120 Client confirming packet 14
```

```
121 Transmitting 21
122 Server Received seq: 21
123 The message is: 20
124 Server expanding packets from max_seq: 20 to 21
125 Corrupted pkt from receiver to sender
126 Transmitting 22
127 Server Received seq: 22
128 The message is: 21
129 Server expanding packets from max_seq: 21 to 22
130 Transmitting 23
131 Server Received seq: 23
132 The message is: 22
133 Server expanding packets from max_seq: 22 to 23
134 Transmitting 24
135 Corrupted pkt from sender to receiver
136 Corrupted packet, discarding
137 Transmitting 25
138 Server Received seq: 25
139 The message is: 24
140 Server expanding packets from max_seq: 23 to 25
141 Transmitting 26
142 Server Received seq: 26
143 The message is: 25
144 Server expanding packets from max_seq: 25 to 26
145 Retransmitting 19 to 127.0.0.1 : 5000
146 Corrupted pkt from sender to receiver
147 Corrupted packet, discarding
148 Client confirming packet 22
149 Client confirming packet 23
150 Client confirming packet 25
151 Client confirming packet 26
152 Retransmitting 21 to 127.0.0.1 : 5000
153 Server Received seq: 21
154 The message is: 20
155 Client confirming packet 21
156 Retransmitting 24 to 127.0.0.1 : 5000
157 Server Received seq: 24
158 The message is: 23
159 Client confirming packet 24
160 Retransmitting 19 to 127.0.0.1 : 5000
161 Server Received seq: 19
```

```
162 The message is: 18
163 Client confirming packet 19
164 Transmitting 27
165 Server Received seq: 27
166 The message is: 26
167 Server expanding packets from max_seq: 26 to 27
168 Transmitting 28
169 Corrupted pkt from sender to receiver
170 Corrupted packet, discarding
171 Transmitting 29
172 Server Received seq: 29
173 The message is: 28
174 Server expanding packets from max_seq: 27 to 29
175 Transmitting 30
176 Corrupted pkt from sender to receiver
177 Corrupted packet, discarding
178 Client confirming packet 27
179 Client confirming packet 29
180 Retransmitting 28 to 127.0.0.1 : 5000
181 Server Received seq: 28
182 The message is: 27
183 Client confirming packet 28
184 Retransmitting 30 to 127.0.0.1 : 5000
185 Server Received seq: 30
186 The message is: 29
187 Server expanding packets from max_seq: 29 to 30
188 Client confirming packet 30
189 Server Received seq: -1
190 The message is: FIN
191 Client is done, sending ack
192 ['0', '1', '2', '3', '4', '5', '6', '7', '8', '9
    ', '10', '11', '12', '13', '14', '15', '16', '17
    ', '18', '19', '20', '21', '22', '23', '24', '25
    ', '26', '27', '28', '29']
193 ACKed end of data, now exiting
194 Done with client
195 Getting no more messages, exiting receiver
196
```

The above screenshots of both examples show that reordering packets works:

The sender orders the packets by index. The receiver does the same, setting up an array with nothing, when an initial packet is sent in, the base sequence number and maximum sequence is established to the initial packet sequence number.

If for any reason the next packet sequence number is smaller than the current established base sequence number then empty entries are added to the 0th position n times where n is the distance between the established sequence number and the new smaller sequence number. After achieving the appropriate length, the 0th position is populated with received data and base sequence number is set to the new smaller sequence number

The 0th position serves as the base sequence numbers position so the entries are indexed by [sequence number - base sequence number]

If for any reason the next sequence number is bigger than the maximum sequence number, entries are added to the end of the data array n times where n is the distance between the maximum sequence number and the new bigger sequence number. After achieving the

appropriate length, the last position is populated with the received data and maximum sequence number is set to the new bigger sequence number

Otherwise the sequence number is between the base sequence and maximum sequence numbers, then data is populated at the [sequence number - base sequence number] index

Writing a file to a 'server' example:

Initial lines show the file broken up into data chunks with predefined length. This array will be encoded into packets and arranged to be sent by the sender to the receiver where the receiver will print out the array when reassembled fully and writes out the file.

The pdf is too long so I am copying and pasting the lines

/Users/tropicalbeaner/Desktop/DataCommNetworks/venv/bin/python /Users/tropicalbeaner/Desktop/DataCommNetworks/HW3_RDT_Protocol/file_transfer_rdt.py
['   ', '   THE S', 'EVEN OLD SAMURA', 'I\n   Once upon ', 'a time, in far ', 'off Japan, a ba', 'nd of fierce ro', 'bbers had their', '\nhiding place o', 'n top of a moun', 'tain almost alw', 'ays covered wit', 'h grey clouds,\n', 'windswept and b', 'attered by stor', 'ms. The robbers', ' lived in a lar', 'ge cave where t', 'hey\nhad piled t', 'heir spoils. No', 'w and again, th', 'ey went down th', 'e mountain, att', 'acked a\nvillage', ', murdered the ', 'poor folk they ', 'chanced upon, s', 'tole whatever t', 'hey could\nlay h', 'ands on and bur', 'ned it to the g', 'round. Wherever', ' the robbers pa', 'ssed, there\nwas', ' nothing but sm', 'oking ruins, we', 'eping men and w', 'omen, misery, m', 'ournIng and\ndes', 'olation.\n   The', ' Emperor, worri', 'ed at this, had', ' sent his soldi', 'ers to attack t', 'he mountain,\nbu', 't the robbers h', 'ad always manag', 'ed to drive the', 'm off. The Empe', 'ror sent for on', 'e\nof the last r', 'emaining Samura', 'i, old Raiko, a', 'nd said to him:', '\n   "Raiko, you', "'ve served me f", 'or many years. ', 'Do my bidding f', 'or one last tim', 'e.\nGo to the mo', 'untain at the h', 'ead of an army ', 'and wipe out th', 'ese bloodthirst', 'y\nbandits." Rai', 'ko sighed.\n   "', 'Your Majesty, i', 'f I were young ', 'again I\'d do it', ' alone. Today I', "'m too old,\nfar", ' too old to do ', 'that, or to com', 'mand an army."\n', '   "Must I then', ',\" said the Emp', 'eror, "submit t', 'o the force of ', 'these marauding', '\nrobbers?" The ', 'old Samurai rep', 'lied:\n   "No, I', "'ll go up there", ' with six Samur', 'ai like myself.', '\n   "But if th', "ey're all as ol", 'd as you, how c', 'an they help yo', 'u?"\n   "Have fa', 'ith in us!" sai', 'd Raiko.\n   A f', 'ew days later, ', 'the seven Samur', 'ai set off on t', 'heir journey, n', 'ot with\nhorses,', ' swords, shield', 's and armour, w', 'hich they could', ' no longer have', ' worn\nanyway, b', 'ut dressed as h', 'umble pilgrims.', ' From the summi', 't, the bandits ', 'watched\nthem co', 'me, and their l', 'eader said,\n   ', '"Who cares abou', 't seven beggars', '. Let them clim', 'b up." The seve', 'n reached the\nc', 'ave and Raiko h', 'umbly said,\n   ', "'Let us come in", ", it's cold out", "side. There's a", ' wind blowing a', 'nd we, as you\nc', 'an see, are old', ' men. We\'ll be ', 'no trouble to y', 'ou." The leader', ' of the gang\nsc', 'ornfully replie', 'd:\n   "Come in,', ' old men, and s', 'tay in a corner', '." And so. the ', 'seven pilgrims\n', 'huddled in a co', 'rner while the ', 'bandits ate the', 'ir meal of food', ' stolen from th', 'e\nvillages near', 'by.\n   Now and ', 'again, they thr', 'ew scraps of fo', 'od and leftover', 's to the old me', 'n,\nsaying: "Eat', ' this, and it i', 's much too good', ' for you." A fe', 'w hours later, ', 'Raiko\nrose to h', 'is feet saying:', '\n   "The wind h', 'as dropped. We

', 'can go on our w', 'ay. In thanks. ', 'for your\nhospit', 'ality, we would', ' like to offer ', 'you this liqueu', 'r, it is sake, ', 'rice wine.\nDrin', 'k our health wi', 'th it." The rob', 'bers needed no ', 'second telling.', ' In the blink\no', 'f an eye, they ', 'had emptied the', ' goatskin bottl', 'e Raika held ou', 't to them. And ', 'in\nthe blink of', ' an eye they al', 'l lay dead, for', ' the sake conta', 'ined a very pot', 'ent\npoison. And', ' so, the seven ', 'Samurai, too ol', 'd to wield a sw', 'ord, served the', '\nEmperor for th', 'e last time.\n']

Transmitting 1
Server Received seq: 1
The message is:
Server Establishing base and max seq as 1
Server expanding packets from max_seq: 1 to 1
Transmitting 2
Server Received seq: 2
The message is: THE S
Server expanding packets from max_seq: 1 to 2
Transmitting 3
Server Received seq: 3
The message is: EVEN OLD SAMURA
Server expanding packets from max_seq: 2 to 3
Transmitting 4
Server Received seq: 4
The message is: I
  Once upon
Server expanding packets from max_seq: 3 to 4
Transmitting 5
Server Received seq: 5
The message is: a time, in far
Server expanding packets from max_seq: 4 to 5
Transmitting 6
Server Received seq: 6
The message is: off Japan, a ba
Server expanding packets from max_seq: 5 to 6
Transmitting 7
Server Received seq: 7
The message is: nd of fierce ro
Server expanding packets from max_seq: 6 to 7
Transmitting 8
Server Received seq: 8
The message is: bbers had their
Server expanding packets from max_seq: 7 to 8
Transmitting 9
Server Received seq: 9
The message is:
hiding place o

Server expanding packets from max_seq: 8 to 9
Transmitting 10
Server Received seq: 10
The message is: n top of a moun
Server expanding packets from max_seq: 9 to 10
Transmitting 11
Server Received seq: 11
The message is: tain almost alw
Server expanding packets from max_seq: 10 to 11
Transmitting 12
Server Received seq: 12
The message is: ays covered wit
Server expanding packets from max_seq: 11 to 12
Transmitting 13
Server Received seq: 13
The message is: h grey clouds,

Server expanding packets from max_seq: 12 to 13
Transmitting 14
Server Received seq: 14
The message is: windswept and b
Server expanding packets from max_seq: 13 to 14
Transmitting 15
Server Received seq: 15
The message is: attered by stor
Server expanding packets from max_seq: 14 to 15
Transmitting 16
Server Received seq: 16
The message is: ms. The robbers
Server expanding packets from max_seq: 15 to 16
Transmitting 17
Server Received seq: 17
The message is: lived in a lar
Server expanding packets from max_seq: 16 to 17
Transmitting 18
Server Received seq: 18
The message is: ge cave where t
Server expanding packets from max_seq: 17 to 18
Transmitting 19
Server Received seq: 19
The message is: hey
had piled t
Server expanding packets from max_seq: 18 to 19
Transmitting 20

Server Received seq: 20
The message is: heir spoils. No
Server expanding packets from max_seq: 19 to 20
Transmitting 21
Server Received seq: 21
The message is: w and again, th
Server expanding packets from max_seq: 20 to 21
Transmitting 22
Server Received seq: 22
The message is: ey went down th
Server expanding packets from max_seq: 21 to 22
Transmitting 23
Server Received seq: 23
The message is: e mountain, att
Server expanding packets from max_seq: 22 to 23
Transmitting 24
Server Received seq: 24
The message is: acked a
village
Server expanding packets from max_seq: 23 to 24
Transmitting 25
Server Received seq: 25
The message is: , murdered the
Server expanding packets from max_seq: 24 to 25
Retransmitting 1 to 127.0.0.1 : 5000
Server Received seq: 1
The message is:
Transmitting 26
Server Received seq: 26
The message is: poor folk they
Server expanding packets from max_seq: 25 to 26
Retransmitting 2 to 127.0.0.1 : 5000
Server Received seq: 2
The message is: THE S
Transmitting 27
Server Received seq: 27
The message is: chanced upon, s
Server expanding packets from max_seq: 26 to 27
Retransmitting 3 to 127.0.0.1 : 5000
Server Received seq: 3
The message is: EVEN OLD SAMURA
Transmitting 28
Server Received seq: 28
The message is: tole whatever t

Server expanding packets from max_seq: 27 to 28
Retransmitting 4 to 127.0.0.1 : 5000
Server Received seq: 4
The message is: I
  Once upon
Transmitting 29
Server Received seq: 29
The message is: hey could
lay h
Server expanding packets from max_seq: 28 to 29
Retransmitting 5 to 127.0.0.1 : 5000
Server Received seq: 5
The message is: a time, in far
Transmitting 30
Server Received seq: 30
The message is: ands on and bur
Server expanding packets from max_seq: 29 to 30
Retransmitting 6 to 127.0.0.1 : 5000
Server Received seq: 6
The message is: off Japan, a ba
Transmitting 31
Server Received seq: 31
The message is: ned it to the g
Server expanding packets from max_seq: 30 to 31
Retransmitting 7 to 127.0.0.1 : 5000
Server Received seq: 7
The message is: nd of fierce ro
Transmitting 32
Server Received seq: 32
The message is: round. Wherever
Server expanding packets from max_seq: 31 to 32
Retransmitting 8 to 127.0.0.1 : 5000
Server Received seq: 8
The message is: bbers had their
Transmitting 33
Server Received seq: 33
The message is: the robbers pa
Server expanding packets from max_seq: 32 to 33
Retransmitting 9 to 127.0.0.1 : 5000
Server Received seq: 9
The message is:
hiding place o
Transmitting 34
Server Received seq: 34

The message is: ssed, there
was
Server expanding packets from max_seq: 33 to 34
Retransmitting 10 to 127.0.0.1 : 5000
Server Received seq: 10
The message is: n top of a moun
Transmitting 35
Server Received seq: 35
The message is: nothing but sm
Server expanding packets from max_seq: 34 to 35
Retransmitting 11 to 127.0.0.1 : 5000
Server Received seq: 11
The message is: tain almost alw
Transmitting 36
Server Received seq: 36
The message is: oking ruins, we
Server expanding packets from max_seq: 35 to 36
Retransmitting 12 to 127.0.0.1 : 5000
Server Received seq: 12
The message is: ays covered wit
Transmitting 37
Server Received seq: 37
The message is: eping men and w
Server expanding packets from max_seq: 36 to 37
Retransmitting 13 to 127.0.0.1 : 5000
Server Received seq: 13
The message is: h grey clouds,

Transmitting 38
Server Received seq: 38
The message is: omen, misery, m
Server expanding packets from max_seq: 37 to 38
Retransmitting 14 to 127.0.0.1 : 5000
Server Received seq: 14
The message is: windswept and b
Transmitting 39
Server Received seq: 39
The message is: ournlng and
des
Server expanding packets from max_seq: 38 to 39
Retransmitting 15 to 127.0.0.1 : 5000
Server Received seq: 15
The message is: attered by stor
Transmitting 40

Server Received seq: 40
The message is: olation.
   The
Server expanding packets from max_seq: 39 to 40
Retransmitting 16 to 127.0.0.1 : 5000
Server Received seq: 16
The message is: ms. The robbers
Transmitting 41
Server Received seq: 41
The message is: Emperor, worri
Server expanding packets from max_seq: 40 to 41
Retransmitting 17 to 127.0.0.1 : 5000
Server Received seq: 17
The message is: lived in a lar
Transmitting 42
Server Received seq: 42
The message is: ed at this, had
Server expanding packets from max_seq: 41 to 42
Retransmitting 18 to 127.0.0.1 : 5000
Server Received seq: 18
The message is: ge cave where t
Transmitting 43
Server Received seq: 43
The message is: sent his soldi
Server expanding packets from max_seq: 42 to 43
Retransmitting 19 to 127.0.0.1 : 5000
Server Received seq: 19
The message is: hey
had piled t
Transmitting 44
Server Received seq: 44
The message is: ers to attack t
Server expanding packets from max_seq: 43 to 44
Retransmitting 20 to 127.0.0.1 : 5000
Server Received seq: 20
The message is: heir spoils. No
Transmitting 45
Server Received seq: 45
The message is: he mountain,
bu
Server expanding packets from max_seq: 44 to 45
Retransmitting 21 to 127.0.0.1 : 5000
Server Received seq: 21
The message is: w and again, th

Transmitting 46
Server Received seq: 46
The message is: t the robbers h
Server expanding packets from max_seq: 45 to 46
Retransmitting 22 to 127.0.0.1 : 5000
Server Received seq: 22
The message is: ey went down th
Client confirming packet 1
Client confirming packet 2
Client confirming packet 3
Client confirming packet 4
Client confirming packet 5
Client confirming packet 6
Client confirming packet 7
Client confirming packet 8
Client confirming packet 9
Client confirming packet 10
Client confirming packet 11
Client confirming packet 12
Client confirming packet 13
Client confirming packet 14
Client confirming packet 15
Client confirming packet 16
Client confirming packet 17
Client confirming packet 18
Client confirming packet 19
Client confirming packet 20
Client confirming packet 21
Client confirming packet 22
Client confirming packet 23
Client confirming packet 24
Client confirming packet 25
Client confirming packet 1
Client confirming packet 26
Client confirming packet 2
Client confirming packet 27
Client confirming packet 3
Client confirming packet 28
Client confirming packet 4
Client confirming packet 29
Client confirming packet 5
Client confirming packet 30
Client confirming packet 6
Client confirming packet 31

Client confirming packet 7
Client confirming packet 32
Client confirming packet 8
Client confirming packet 33
Client confirming packet 9
Client confirming packet 34
Client confirming packet 10
Client confirming packet 35
Client confirming packet 11
Client confirming packet 36
Client confirming packet 12
Client confirming packet 37
Client confirming packet 13
Client confirming packet 38
Client confirming packet 14
Client confirming packet 39
Client confirming packet 15
Client confirming packet 40
Client confirming packet 16
Client confirming packet 41
Client confirming packet 17
Client confirming packet 42
Client confirming packet 18
Client confirming packet 43
Client confirming packet 19
Client confirming packet 44
Client confirming packet 20
Client confirming packet 45
Client confirming packet 21
Client confirming packet 46
Client confirming packet 22
Transmitting 47
Server Received seq: 47
The message is: ad always manag
Server expanding packets from max_seq: 46 to 47
Transmitting 48
Server Received seq: 48
The message is: ed to drive the
Server expanding packets from max_seq: 47 to 48
Transmitting 49
Server Received seq: 49
The message is: m off. The Empe
Server expanding packets from max_seq: 48 to 49
Transmitting 50

Server Received seq: 50
The message is: ror sent for on
Server expanding packets from max_seq: 49 to 50
Transmitting 51
Server Received seq: 51
The message is: e
of the last r
Server expanding packets from max_seq: 50 to 51
Transmitting 52
Server Received seq: 52
The message is: emaining Samura
Server expanding packets from max_seq: 51 to 52
Transmitting 53
Server Received seq: 53
The message is: i, old Raiko, a
Server expanding packets from max_seq: 52 to 53
Transmitting 54
Server Received seq: 54
The message is: nd said to him:
Server expanding packets from max_seq: 53 to 54
Transmitting 55
Server Received seq: 55
The message is:
  "Raiko, you
Server expanding packets from max_seq: 54 to 55
Transmitting 56
Server Received seq: 56
The message is: 've served me f
Server expanding packets from max_seq: 55 to 56
Transmitting 57
Server Received seq: 57
The message is: or many years.
Server expanding packets from max_seq: 56 to 57
Transmitting 58
Server Received seq: 58
The message is: Do my bidding f
Server expanding packets from max_seq: 57 to 58
Transmitting 59
Server Received seq: 59
The message is: or one last tim
Server expanding packets from max_seq: 58 to 59
Transmitting 60
Server Received seq: 60
The message is: e.

Go to the mo
Server expanding packets from max_seq: 59 to 60
Transmitting 61
Server Received seq: 61
The message is: untain at the h
Server expanding packets from max_seq: 60 to 61
Transmitting 62
Server Received seq: 62
The message is: ead of an army
Server expanding packets from max_seq: 61 to 62
Transmitting 63
Server Received seq: 63
The message is: and wipe out th
Server expanding packets from max_seq: 62 to 63
Transmitting 64
Server Received seq: 64
The message is: ese bloodthirst
Server expanding packets from max_seq: 63 to 64
Transmitting 65
Server Received seq: 65
The message is: y
bandits." Rai
Server expanding packets from max_seq: 64 to 65
Transmitting 66
Server Received seq: 66
The message is: ko sighed.
   "
Server expanding packets from max_seq: 65 to 66
Transmitting 67
Server Received seq: 67
The message is: Your Majesty, i
Server expanding packets from max_seq: 66 to 67
Transmitting 68
Server Received seq: 68
The message is: f I were young
Server expanding packets from max_seq: 67 to 68
Transmitting 69
Server Received seq: 69
The message is: again I'd do it
Server expanding packets from max_seq: 68 to 69
Transmitting 70
Server Received seq: 70
The message is: alone. Today I
Server expanding packets from max_seq: 69 to 70

Transmitting 71
Server Received seq: 71
The message is: 'm too old,
far
Server expanding packets from max_seq: 70 to 71
Retransmitting 47 to 127.0.0.1 : 5000
Server Received seq: 47
The message is: ad always manag
Transmitting 72
Server Received seq: 72
The message is: too old to do
Server expanding packets from max_seq: 71 to 72
Retransmitting 48 to 127.0.0.1 : 5000
Server Received seq: 48
The message is: ed to drive the
Transmitting 73
Server Received seq: 73
The message is: that, or to com
Server expanding packets from max_seq: 72 to 73
Retransmitting 49 to 127.0.0.1 : 5000
Server Received seq: 49
The message is: m off. The Empe
Transmitting 74
Server Received seq: 74
The message is: mand an army."

Server expanding packets from max_seq: 73 to 74
Retransmitting 50 to 127.0.0.1 : 5000
Server Received seq: 50
The message is: ror sent for on
Transmitting 75
Server Received seq: 75
The message is: "Must I then
Server expanding packets from max_seq: 74 to 75
Retransmitting 51 to 127.0.0.1 : 5000
Server Received seq: 51
The message is: e
of the last r
Transmitting 76
Server Received seq: 76
The message is: ," said the Emp
Server expanding packets from max_seq: 75 to 76
Retransmitting 52 to 127.0.0.1 : 5000
Server Received seq: 52

The message is: emaining Samura
Transmitting 77
Server Received seq: 77
The message is: eror, "submit t
Server expanding packets from max_seq: 76 to 77
Retransmitting 53 to 127.0.0.1 : 5000
Server Received seq: 53
The message is: i, old Raiko, a
Transmitting 78
Server Received seq: 78
The message is: o the force of
Server expanding packets from max_seq: 77 to 78
Retransmitting 54 to 127.0.0.1 : 5000
Server Received seq: 54
The message is: nd said to him:
Transmitting 79
Server Received seq: 79
The message is: these marauding
Server expanding packets from max_seq: 78 to 79
Retransmitting 55 to 127.0.0.1 : 5000
Server Received seq: 55
The message is:
  "Raiko, you
Transmitting 80
Server Received seq: 80
The message is:
robbers?" The
Server expanding packets from max_seq: 79 to 80
Retransmitting 56 to 127.0.0.1 : 5000
Server Received seq: 56
The message is: 've served me f
Transmitting 81
Server Received seq: 81
The message is: old Samurai rep
Server expanding packets from max_seq: 80 to 81
Retransmitting 57 to 127.0.0.1 : 5000
Server Received seq: 57
The message is: or many years.
Transmitting 82
Server Received seq: 82
The message is: lied:
  "No, I
Server expanding packets from max_seq: 81 to 82
Retransmitting 58 to 127.0.0.1 : 5000

Server Received seq: 58
The message is: Do my bidding f
Transmitting 83
Server Received seq: 83
The message is: 'll go up there
Server expanding packets from max_seq: 82 to 83
Retransmitting 59 to 127.0.0.1 : 5000
Server Received seq: 59
The message is: or one last tim
Transmitting 84
Server Received seq: 84
The message is: with six Samur
Server expanding packets from max_seq: 83 to 84
Retransmitting 60 to 127.0.0.1 : 5000
Server Received seq: 60
The message is: e.
Go to the mo
Transmitting 85
Server Received seq: 85
The message is: ai like myself.
Server expanding packets from max_seq: 84 to 85
Retransmitting 61 to 127.0.0.1 : 5000
Server Received seq: 61
The message is: untain at the h
Transmitting 86
Server Received seq: 86
The message is: "
   "But if th
Server expanding packets from max_seq: 85 to 86
Retransmitting 62 to 127.0.0.1 : 5000
Server Received seq: 62
The message is: ead of an army
Transmitting 87
Server Received seq: 87
The message is: ey're all as ol
Server expanding packets from max_seq: 86 to 87
Retransmitting 63 to 127.0.0.1 : 5000
Server Received seq: 63
The message is: and wipe out th
Transmitting 88
Server Received seq: 88
The message is: d as you, how c
Server expanding packets from max_seq: 87 to 88
Retransmitting 64 to 127.0.0.1 : 5000

Server Received seq: 64
The message is: ese bloodthirst
Transmitting 89
Server Received seq: 89
The message is: an they help yo
Server expanding packets from max_seq: 88 to 89
Retransmitting 65 to 127.0.0.1 : 5000
Server Received seq: 65
The message is: y
bandits." Rai
Transmitting 90
Server Received seq: 90
The message is: u?"
  "Have fa
Server expanding packets from max_seq: 89 to 90
Retransmitting 66 to 127.0.0.1 : 5000
Server Received seq: 66
The message is: ko sighed.
  "
Transmitting 91
Server Received seq: 91
The message is: ith in us!" sai
Server expanding packets from max_seq: 90 to 91
Retransmitting 67 to 127.0.0.1 : 5000
Server Received seq: 67
The message is: Your Majesty, i
Transmitting 92
Server Received seq: 92
The message is: d Raiko.
  A f
Server expanding packets from max_seq: 91 to 92
Retransmitting 68 to 127.0.0.1 : 5000
Server Received seq: 68
The message is: f I were young
Client confirming packet 47
Client confirming packet 48
Client confirming packet 49
Client confirming packet 50
Client confirming packet 51
Client confirming packet 52
Client confirming packet 53
Client confirming packet 54
Client confirming packet 55
Client confirming packet 56

Client confirming packet 57
Client confirming packet 58
Client confirming packet 59
Client confirming packet 60
Client confirming packet 61
Client confirming packet 62
Client confirming packet 63
Client confirming packet 64
Client confirming packet 65
Client confirming packet 66
Client confirming packet 67
Client confirming packet 68
Client confirming packet 69
Client confirming packet 70
Client confirming packet 71
Client confirming packet 47
Client confirming packet 72
Client confirming packet 48
Client confirming packet 73
Client confirming packet 49
Client confirming packet 74
Client confirming packet 50
Client confirming packet 75
Client confirming packet 51
Client confirming packet 76
Client confirming packet 52
Client confirming packet 77
Client confirming packet 53
Client confirming packet 78
Client confirming packet 54
Client confirming packet 79
Client confirming packet 55
Client confirming packet 80
Client confirming packet 56
Client confirming packet 81
Client confirming packet 57
Client confirming packet 82
Client confirming packet 58
Client confirming packet 83
Client confirming packet 59
Client confirming packet 84
Client confirming packet 60
Client confirming packet 85
Client confirming packet 61

Client confirming packet 86
Client confirming packet 62
Client confirming packet 87
Client confirming packet 63
Client confirming packet 88
Client confirming packet 64
Client confirming packet 89
Client confirming packet 65
Client confirming packet 90
Client confirming packet 66
Client confirming packet 91
Client confirming packet 67
Client confirming packet 92
Client confirming packet 68
Transmitting 93
Server Received seq: 93
The message is: ew days later,
Server expanding packets from max_seq: 92 to 93
Transmitting 94
Server Received seq: 94
The message is: the seven Samur
Server expanding packets from max_seq: 93 to 94
Transmitting 95
Server Received seq: 95
The message is: ai set off on t
Server expanding packets from max_seq: 94 to 95
Transmitting 96
Server Received seq: 96
The message is: heir journey, n
Server expanding packets from max_seq: 95 to 96
Transmitting 97
Server Received seq: 97
The message is: ot with
horses,
Server expanding packets from max_seq: 96 to 97
Transmitting 98
Server Received seq: 98
The message is: swords, shield
Server expanding packets from max_seq: 97 to 98
Transmitting 99
Server Received seq: 99
The message is: s and armour, w
Server expanding packets from max_seq: 98 to 99
Transmitting 100

Server Received seq: 100

The message is: hich they could

Server expanding packets from max_seq: 99 to 100

Transmitting 101

Server Received seq: 101

The message is: no longer have

Server expanding packets from max_seq: 100 to 101

Transmitting 102

Server Received seq: 102

The message is: worn

anyway, b

Server expanding packets from max_seq: 101 to 102

Transmitting 103

Server Received seq: 103

The message is: ut dressed as h

Server expanding packets from max_seq: 102 to 103

Transmitting 104

Server Received seq: 104

The message is: umble pilgrims.

Server expanding packets from max_seq: 103 to 104

Transmitting 105

Server Received seq: 105

The message is: From the summi

Server expanding packets from max_seq: 104 to 105

Transmitting 106

Server Received seq: 106

The message is: t, the bandits

Server expanding packets from max_seq: 105 to 106

Transmitting 107

Server Received seq: 107

The message is: watched

them co

Server expanding packets from max_seq: 106 to 107

Transmitting 108

Server Received seq: 108

The message is: me, and their l

Server expanding packets from max_seq: 107 to 108

Transmitting 109

Server Received seq: 109

The message is: eader said,

Server expanding packets from max_seq: 108 to 109

Transmitting 110

Server Received seq: 110

The message is: "Who cares abou
Server expanding packets from max_seq: 109 to 110
Transmitting 111
Server Received seq: 111
The message is: t seven beggars
Server expanding packets from max_seq: 110 to 111
Transmitting 112
Server Received seq: 112
The message is: . Let them clim
Server expanding packets from max_seq: 111 to 112
Transmitting 113
Server Received seq: 113
The message is: b up." The seve
Server expanding packets from max_seq: 112 to 113
Transmitting 114
Server Received seq: 114
The message is: n reached the
c
Server expanding packets from max_seq: 113 to 114
Transmitting 115
Server Received seq: 115
The message is: ave and Raiko h
Server expanding packets from max_seq: 114 to 115
Transmitting 116
Server Received seq: 116
The message is: umbly said,

Server expanding packets from max_seq: 115 to 116
Transmitting 117
Server Received seq: 117
The message is: "Let us come in
Server expanding packets from max_seq: 116 to 117
Retransmitting 93 to 127.0.0.1 : 5000
Server Received seq: 93
The message is: ew days later,
Transmitting 118
Server Received seq: 118
The message is: , it's cold out
Server expanding packets from max_seq: 117 to 118
Retransmitting 94 to 127.0.0.1 : 5000
Server Received seq: 94
The message is: the seven Samur
Transmitting 119
Server Received seq: 119

The message is: side. There's a
Server expanding packets from max_seq: 118 to 119
Retransmitting 95 to 127.0.0.1 : 5000
Server Received seq: 95
The message is: ai set off on t
Transmitting 120
Server Received seq: 120
The message is: wind blowing a
Server expanding packets from max_seq: 119 to 120
Retransmitting 96 to 127.0.0.1 : 5000
Server Received seq: 96
The message is: heir journey, n
Transmitting 121
Server Received seq: 121
The message is: nd we, as you
c
Server expanding packets from max_seq: 120 to 121
Retransmitting 97 to 127.0.0.1 : 5000
Server Received seq: 97
The message is: ot with
horses,
Transmitting 122
Server Received seq: 122
The message is: an see, are old
Server expanding packets from max_seq: 121 to 122
Retransmitting 98 to 127.0.0.1 : 5000
Server Received seq: 98
The message is: swords, shield
Transmitting 123
Server Received seq: 123
The message is: men. We'll be
Server expanding packets from max_seq: 122 to 123
Retransmitting 99 to 127.0.0.1 : 5000
Server Received seq: 99
The message is: s and armour, w
Transmitting 124
Server Received seq: 124
The message is: no trouble to y
Server expanding packets from max_seq: 123 to 124
Retransmitting 100 to 127.0.0.1 : 5000
Server Received seq: 100
The message is: hich they could
Transmitting 125
Server Received seq: 125

The message is: ou." The leader
Server expanding packets from max_seq: 124 to 125
Retransmitting 101 to 127.0.0.1 : 5000
Server Received seq: 101
The message is: no longer have
Transmitting 126
Server Received seq: 126
The message is: of the gang
sc
Server expanding packets from max_seq: 125 to 126
Retransmitting 102 to 127.0.0.1 : 5000
Server Received seq: 102
The message is: worn
anyway, b
Transmitting 127
Server Received seq: 127
The message is: ornfully replie
Server expanding packets from max_seq: 126 to 127
Retransmitting 103 to 127.0.0.1 : 5000
Server Received seq: 103
The message is: ut dressed as h
Transmitting 128
Server Received seq: 128
The message is: d:
  "Come in,
Server expanding packets from max_seq: 127 to 128
Retransmitting 104 to 127.0.0.1 : 5000
Server Received seq: 104
The message is: umble pilgrims.
Transmitting 129
Server Received seq: 129
The message is: old men, and s
Server expanding packets from max_seq: 128 to 129
Retransmitting 105 to 127.0.0.1 : 5000
Server Received seq: 105
The message is: From the summi
Transmitting 130
Server Received seq: 130
The message is: tay in a corner
Server expanding packets from max_seq: 129 to 130
Retransmitting 106 to 127.0.0.1 : 5000
Server Received seq: 106
The message is: t, the bandits
Transmitting 131

Server Received seq: 131
The message is: ." And so. the
Server expanding packets from max_seq: 130 to 131
Retransmitting 107 to 127.0.0.1 : 5000
Server Received seq: 107
The message is: watched
them co
Transmitting 132
Server Received seq: 132
The message is: seven pilgrims

Server expanding packets from max_seq: 131 to 132
Retransmitting 108 to 127.0.0.1 : 5000
Server Received seq: 108
The message is: me, and their l
Transmitting 133
Server Received seq: 133
The message is: huddled in a co
Server expanding packets from max_seq: 132 to 133
Retransmitting 109 to 127.0.0.1 : 5000
Server Received seq: 109
The message is: eader said,

Transmitting 134
Server Received seq: 134
The message is: rner while the
Server expanding packets from max_seq: 133 to 134
Retransmitting 110 to 127.0.0.1 : 5000
Server Received seq: 110
The message is: "Who cares abou
Transmitting 135
Server Received seq: 135
The message is: bandits ate the
Server expanding packets from max_seq: 134 to 135
Retransmitting 111 to 127.0.0.1 : 5000
Server Received seq: 111
The message is: t seven beggars
Transmitting 136
Server Received seq: 136
The message is: ir meal of food
Server expanding packets from max_seq: 135 to 136
Retransmitting 112 to 127.0.0.1 : 5000
Server Received seq: 112
The message is: . Let them clim

Transmitting 137
Server Received seq: 137
The message is: stolen from th
Server expanding packets from max_seq: 136 to 137
Retransmitting 113 to 127.0.0.1 : 5000
Server Received seq: 113
The message is: b up." The seve
Transmitting 138
Server Received seq: 138
The message is: e
villages near
Server expanding packets from max_seq: 137 to 138
Retransmitting 114 to 127.0.0.1 : 5000
Server Received seq: 114
The message is: n reached the
c
Client confirming packet 93
Client confirming packet 94
Client confirming packet 95
Client confirming packet 96
Client confirming packet 97
Client confirming packet 98
Client confirming packet 99
Client confirming packet 100
Client confirming packet 101
Client confirming packet 102
Client confirming packet 103
Client confirming packet 104
Client confirming packet 105
Client confirming packet 106
Client confirming packet 107
Client confirming packet 108
Client confirming packet 109
Client confirming packet 110
Client confirming packet 111
Client confirming packet 112
Client confirming packet 113
Client confirming packet 114
Client confirming packet 115
Client confirming packet 116
Client confirming packet 117
Client confirming packet 93
Client confirming packet 118
Client confirming packet 94

Client confirming packet 119
Client confirming packet 95
Client confirming packet 120
Client confirming packet 96
Client confirming packet 121
Client confirming packet 97
Client confirming packet 122
Client confirming packet 98
Client confirming packet 123
Client confirming packet 99
Client confirming packet 124
Client confirming packet 100
Client confirming packet 125
Client confirming packet 101
Client confirming packet 126
Client confirming packet 102
Client confirming packet 127
Client confirming packet 103
Client confirming packet 128
Client confirming packet 104
Client confirming packet 129
Client confirming packet 105
Client confirming packet 130
Client confirming packet 106
Client confirming packet 131
Client confirming packet 107
Client confirming packet 132
Client confirming packet 108
Client confirming packet 133
Client confirming packet 109
Client confirming packet 134
Client confirming packet 110
Client confirming packet 135
Client confirming packet 111
Client confirming packet 136
Client confirming packet 112
Client confirming packet 137
Client confirming packet 113
Client confirming packet 138
Client confirming packet 114
Transmitting 139
Server Received seq: 139
The message is: by.
    Now and

Server expanding packets from max_seq: 138 to 139
Transmitting 140
Server Received seq: 140
The message is: again, they thr
Server expanding packets from max_seq: 139 to 140
Transmitting 141
Server Received seq: 141
The message is: ew scraps of fo
Server expanding packets from max_seq: 140 to 141
Transmitting 142
Server Received seq: 142
The message is: od and leftover
Server expanding packets from max_seq: 141 to 142
Transmitting 143
Server Received seq: 143
The message is: s to the old me
Server expanding packets from max_seq: 142 to 143
Transmitting 144
Server Received seq: 144
The message is: n,
saying: "Eat
Server expanding packets from max_seq: 143 to 144
Transmitting 145
Server Received seq: 145
The message is: this, and it i
Server expanding packets from max_seq: 144 to 145
Transmitting 146
Server Received seq: 146
The message is: s much too good
Server expanding packets from max_seq: 145 to 146
Transmitting 147
Server Received seq: 147
The message is: for you." A fe
Server expanding packets from max_seq: 146 to 147
Transmitting 148
Server Received seq: 148
The message is: w hours later,
Server expanding packets from max_seq: 147 to 148
Transmitting 149
Server Received seq: 149
The message is: Raiko
rose to h
Server expanding packets from max_seq: 148 to 149
Transmitting 150

Server Received seq: 150
The message is: is feet saying:
Server expanding packets from max_seq: 149 to 150
Transmitting 151
Server Received seq: 151
The message is:
    "The wind h
Server expanding packets from max_seq: 150 to 151
Transmitting 152
Server Received seq: 152
The message is: as dropped. We
Server expanding packets from max_seq: 151 to 152
Transmitting 153
Server Received seq: 153
The message is: can go on our w
Server expanding packets from max_seq: 152 to 153
Transmitting 154
Server Received seq: 154
The message is: ay. In thanks.
Server expanding packets from max_seq: 153 to 154
Transmitting 155
Server Received seq: 155
The message is: for your
hospit
Server expanding packets from max_seq: 154 to 155
Transmitting 156
Server Received seq: 156
The message is: ality, we would
Server expanding packets from max_seq: 155 to 156
Transmitting 157
Server Received seq: 157
The message is: like to offer
Server expanding packets from max_seq: 156 to 157
Transmitting 158
Server Received seq: 158
The message is: you this liqueu
Server expanding packets from max_seq: 157 to 158
Transmitting 159
Server Received seq: 159
The message is: r, it is sake,
Server expanding packets from max_seq: 158 to 159
Transmitting 160
Server Received seq: 160
The message is: rice wine.

Drin
Server expanding packets from max_seq: 159 to 160
Transmitting 161
Server Received seq: 161
The message is: k our health wi
Server expanding packets from max_seq: 160 to 161
Transmitting 162
Server Received seq: 162
The message is: th it." The rob
Server expanding packets from max_seq: 161 to 162
Transmitting 163
Server Received seq: 163
The message is: bers needed no
Server expanding packets from max_seq: 162 to 163
Retransmitting 139 to 127.0.0.1 : 5000
Server Received seq: 139
The message is: by.
  Now and
Transmitting 164
Server Received seq: 164
The message is: second telling.
Server expanding packets from max_seq: 163 to 164
Retransmitting 140 to 127.0.0.1 : 5000
Server Received seq: 140
The message is: again, they thr
Transmitting 165
Server Received seq: 165
The message is: In the blink
o
Server expanding packets from max_seq: 164 to 165
Retransmitting 141 to 127.0.0.1 : 5000
Server Received seq: 141
The message is: ew scraps of fo
Transmitting 166
Server Received seq: 166
The message is: f an eye, they
Server expanding packets from max_seq: 165 to 166
Retransmitting 142 to 127.0.0.1 : 5000
Server Received seq: 142
The message is: od and leftover
Transmitting 167
Server Received seq: 167
The message is: had emptied the
Server expanding packets from max_seq: 166 to 167

Retransmitting 143 to 127.0.0.1 : 5000
Server Received seq: 143
The message is: s to the old me
Transmitting 168
Server Received seq: 168
The message is: goatskin bottl
Server expanding packets from max_seq: 167 to 168
Retransmitting 144 to 127.0.0.1 : 5000
Server Received seq: 144
The message is: n,
saying: "Eat
Transmitting 169
Server Received seq: 169
The message is: e Raika held ou
Server expanding packets from max_seq: 168 to 169
Retransmitting 145 to 127.0.0.1 : 5000
Server Received seq: 145
The message is: this, and it i
Transmitting 170
Server Received seq: 170
The message is: t to them. And
Server expanding packets from max_seq: 169 to 170
Retransmitting 146 to 127.0.0.1 : 5000
Server Received seq: 146
The message is: s much too good
Transmitting 171
Server Received seq: 171
The message is: in
the blink of
Server expanding packets from max_seq: 170 to 171
Retransmitting 147 to 127.0.0.1 : 5000
Server Received seq: 147
The message is: for you." A fe
Transmitting 172
Server Received seq: 172
The message is: an eye they al
Server expanding packets from max_seq: 171 to 172
Retransmitting 148 to 127.0.0.1 : 5000
Server Received seq: 148
The message is: w hours later,
Transmitting 173
Server Received seq: 173
The message is: I lay dead, for
Server expanding packets from max_seq: 172 to 173

Retransmitting 149 to 127.0.0.1 : 5000
Server Received seq: 149
The message is: Raiko
rose to h
Transmitting 174
Server Received seq: 174
The message is: the sake conta
Server expanding packets from max_seq: 173 to 174
Retransmitting 150 to 127.0.0.1 : 5000
Server Received seq: 150
The message is: is feet saying:
Transmitting 175
Server Received seq: 175
The message is: ined a very pot
Server expanding packets from max_seq: 174 to 175
Retransmitting 151 to 127.0.0.1 : 5000
Server Received seq: 151
The message is:
   "The wind h
Transmitting 176
Server Received seq: 176
The message is: ent
poison. And
Server expanding packets from max_seq: 175 to 176
Retransmitting 152 to 127.0.0.1 : 5000
Server Received seq: 152
The message is: as dropped. We
Transmitting 177
Server Received seq: 177
The message is: so, the seven
Server expanding packets from max_seq: 176 to 177
Retransmitting 153 to 127.0.0.1 : 5000
Server Received seq: 153
The message is: can go on our w
Transmitting 178
Server Received seq: 178
The message is: Samurai, too ol
Server expanding packets from max_seq: 177 to 178
Retransmitting 154 to 127.0.0.1 : 5000
Server Received seq: 154
The message is: ay. In thanks.
Transmitting 179
Server Received seq: 179
The message is: d to wield a sw

Server expanding packets from max_seq: 178 to 179
Retransmitting 155 to 127.0.0.1 : 5000
Server Received seq: 155
The message is: for your
hospit
Transmitting 180
Server Received seq: 180
The message is: ord, served the
Server expanding packets from max_seq: 179 to 180
Retransmitting 156 to 127.0.0.1 : 5000
Server Received seq: 156
The message is: ality, we would
Transmitting 181
Server Received seq: 181
The message is:
Emperor for th
Server expanding packets from max_seq: 180 to 181
Retransmitting 157 to 127.0.0.1 : 5000
Server Received seq: 157
The message is: like to offer
Transmitting 182
Server Received seq: 182
The message is: e last time.

Server expanding packets from max_seq: 181 to 182
Retransmitting 158 to 127.0.0.1 : 5000
Server Received seq: 158
The message is: you this liqueu
Client confirming packet 139
Client confirming packet 140
Client confirming packet 141
Client confirming packet 142
Client confirming packet 143
Client confirming packet 144
Client confirming packet 145
Client confirming packet 146
Client confirming packet 147
Client confirming packet 148
Client confirming packet 149
Client confirming packet 150
Client confirming packet 151
Client confirming packet 152
Client confirming packet 153
Client confirming packet 154

Client confirming packet 155
Client confirming packet 156
Client confirming packet 157
Client confirming packet 158
Client confirming packet 159
Client confirming packet 160
Client confirming packet 161
Client confirming packet 162
Client confirming packet 163
Client confirming packet 139
Client confirming packet 164
Client confirming packet 140
Client confirming packet 165
Client confirming packet 141
Client confirming packet 166
Client confirming packet 142
Client confirming packet 167
Client confirming packet 143
Client confirming packet 168
Client confirming packet 144
Client confirming packet 169
Client confirming packet 145
Client confirming packet 170
Client confirming packet 146
Client confirming packet 171
Client confirming packet 147
Client confirming packet 172
Client confirming packet 148
Client confirming packet 173
Client confirming packet 149
Client confirming packet 174
Client confirming packet 150
Client confirming packet 175
Client confirming packet 151
Client confirming packet 176
Client confirming packet 152
Client confirming packet 177
Client confirming packet 153
Client confirming packet 178
Client confirming packet 154
Client confirming packet 179
Client confirming packet 155
Client confirming packet 180
Client confirming packet 156

Client confirming packet 181
Client confirming packet 157
Client confirming packet 182
Client confirming packet 158
Server Received seq: -1
The message is: FIN
Client is done, sending ack
['   ', '   THE S', 'EVEN OLD SAMURA', 'I\n   Once upon ', 'a time, in far ', 'off Japan, a ba', 'nd of fierce ro', 'bbers had their', '\nhiding place o', 'n top of a moun', 'tain almost alw', 'ays covered wit', 'h grey clouds,\n', 'windswept and b', 'attered by stor', 'ms. The robbers', ' lived in a lar', 'ge cave where t', 'hey\nhad piled t', 'heir spoils. No', 'w and again, th', 'ey went down th', 'e mountain, att', 'acked a\nvillage', ', murdered the ', 'poor folk they ', 'chanced upon, s', 'tole whatever t', 'hey could\nlay h', 'ands on and bur', 'ned it to the g', 'round. Wherever', ' the robbers pa', 'ssed, there\nwas', ' nothing but sm', 'oking ruins, we', 'eping men and w', 'omen, misery, m', 'ournlng and\ndes', 'olation.\n   The', ' Emperor, worri', 'ed at this, had', ' sent his soldi', 'ers to attack t', 'he mountain,\nbu', 't the robbers h', 'ad always manag', 'ed to drive the', 'm off. The Empe', 'ror sent for on', 'e\nof the last r', 'emaining Samura', 'i, old Raiko, a', 'nd said to him:', '\n   "Raiko, you', '\'ve served me f', 'or many years. ', 'Do my bidding f', 'or one last tim', 'e.\nGo to the mo', 'untain at the h', 'ead of an army ', 'and wipe out th', 'ese bloodthirst', 'y\nbandits." Rai', 'ko sighed.\n   "', 'Your Majesty, i', 'f I were young ', 'again I\'d do it", ' alone. Today I', '\'m too old,\nfar", ' too old to do ', 'that, or to com', 'mand an army."\n', '   "Must I then', ',\" said the Emp', 'eror, "submit t', 'o the force of ', 'these marauding', '\nrobbers?" The ', 'old Samurai rep', 'lied:\n   "No, I', '\'ll go up there", ' with six Samur', 'ai like myself.', '"\n   "But if th', 'ey\'re all as ol", 'd as you, how c', 'an they help yo', 'u?"\n   "Have fa', 'ith in us!" sai', 'd Raiko.\n   A f', 'ew days later, ', 'the seven Samur', 'ai set off on t', 'heir journey, n', 'ot with\nhorses,', ' swords, shield', 's and armour, w', 'hich they could', ' no longer have', ' worn\nanyway, b', 'ut dressed as h', 'umble pilgrims.', ' From the summi', 't, the bandits ', 'watched\nthem co', 'me, and their l', 'eader said,\n   ', '"Who cares abou', 't seven beggars', '. Let them clim', 'b up." The seve', 'n reached the\nc', 'ave and Raiko h', 'umbly said,\n   ', '"Let us come in', ', it\'s cold out", "side. There\'s a", ' wind blowing a', 'nd we, as you\nc', 'an see, are old', '" men. We\'ll be ', 'no trouble to y', 'ou." The leader', ' of the gang\nsc', 'ornfully replie', 'd:\n   "Come in,', ' old men, and s', 'tay in a corner', '." And so. the ', 'seven pilgrims\n', 'huddled in a co', 'rner while the ', 'bandits ate the', 'ir meal of food', ' stolen from th', 'e\nvillages near', 'by.\n   Now and ', 'again, they thr', 'ew scraps of fo', 'od and leftover', 's to the old me', 'n,\nsaying: "Eat', ' this, and it i', 's much too good', ' for you." A fe', 'w hours later, ', 'Raiko\nrose to h', 'is feet saying:', '\n   "The wind h', 'as dropped. We ', 'can go on our w', 'ay. In thanks. ', 'for your\nhospit', 'ality, we would', ' like to offer ', 'you this liqueu', 'r, it is sake, ', 'rice wine.\nDrin', 'k our health wi', 'th it." The rob', 'bers needed no ', 'second telling.', ' In the blink\no', 'f an eye, they ', 'had emptied the', ' goatskin bottl', 'e Raika held ou', 't to them. And ', 'in\nthe blink of', ' an eye they al', 'l lay dead, for', ' the sake conta', 'ined a very pot', 'ent\npoison. And', ' so, the seven ', 'Samurai, too ol', 'd to wield a sw', 'ord, served the', '\nEmperor for th', 'e last time.\n']
ACKed end of data, now exiting
Sent file
Getting no more messages, exiting receiver

Process finished with exit code 0