SYSC 3303 Real-Time Concurrent Systems

Assignment #1
Sample Solutions

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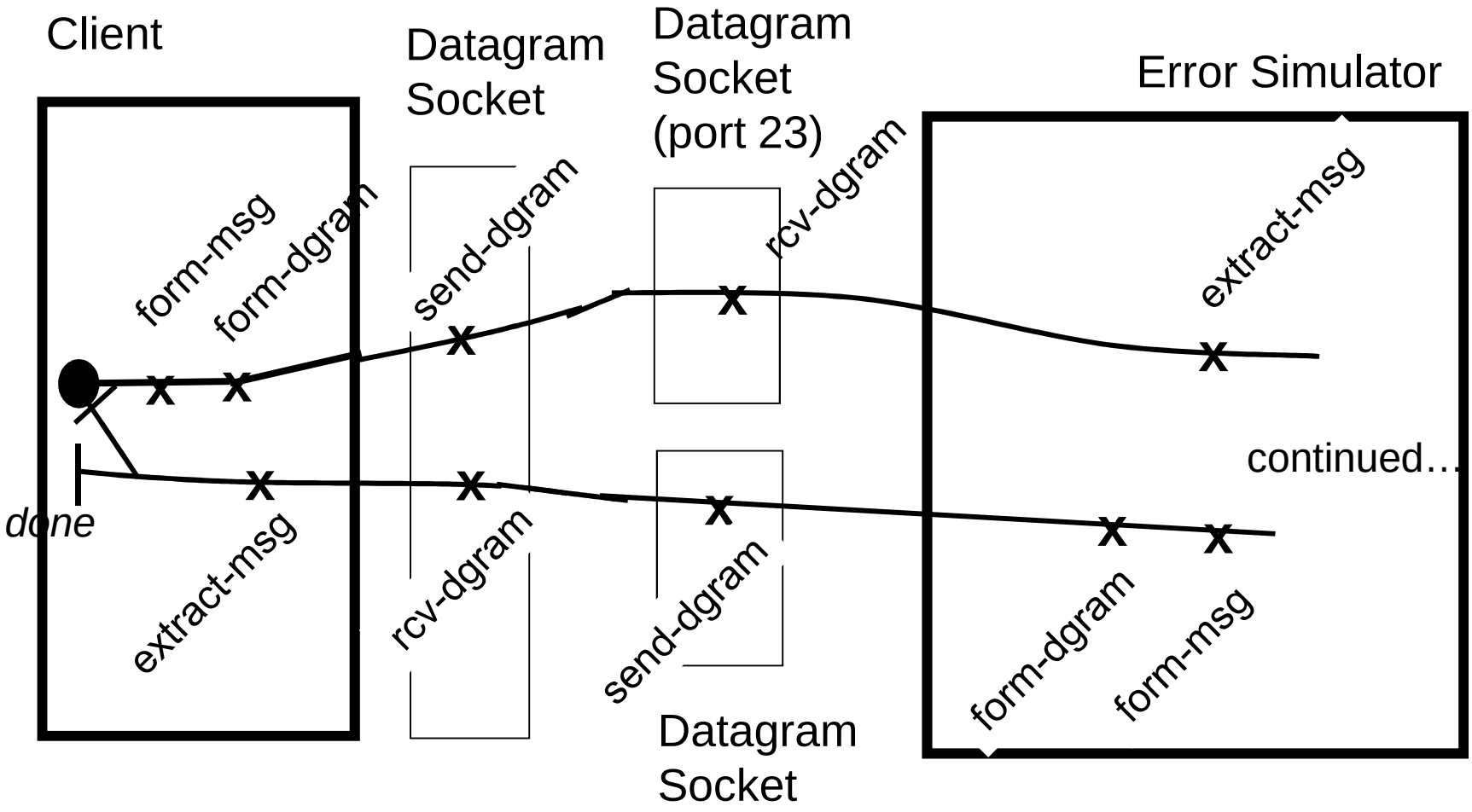
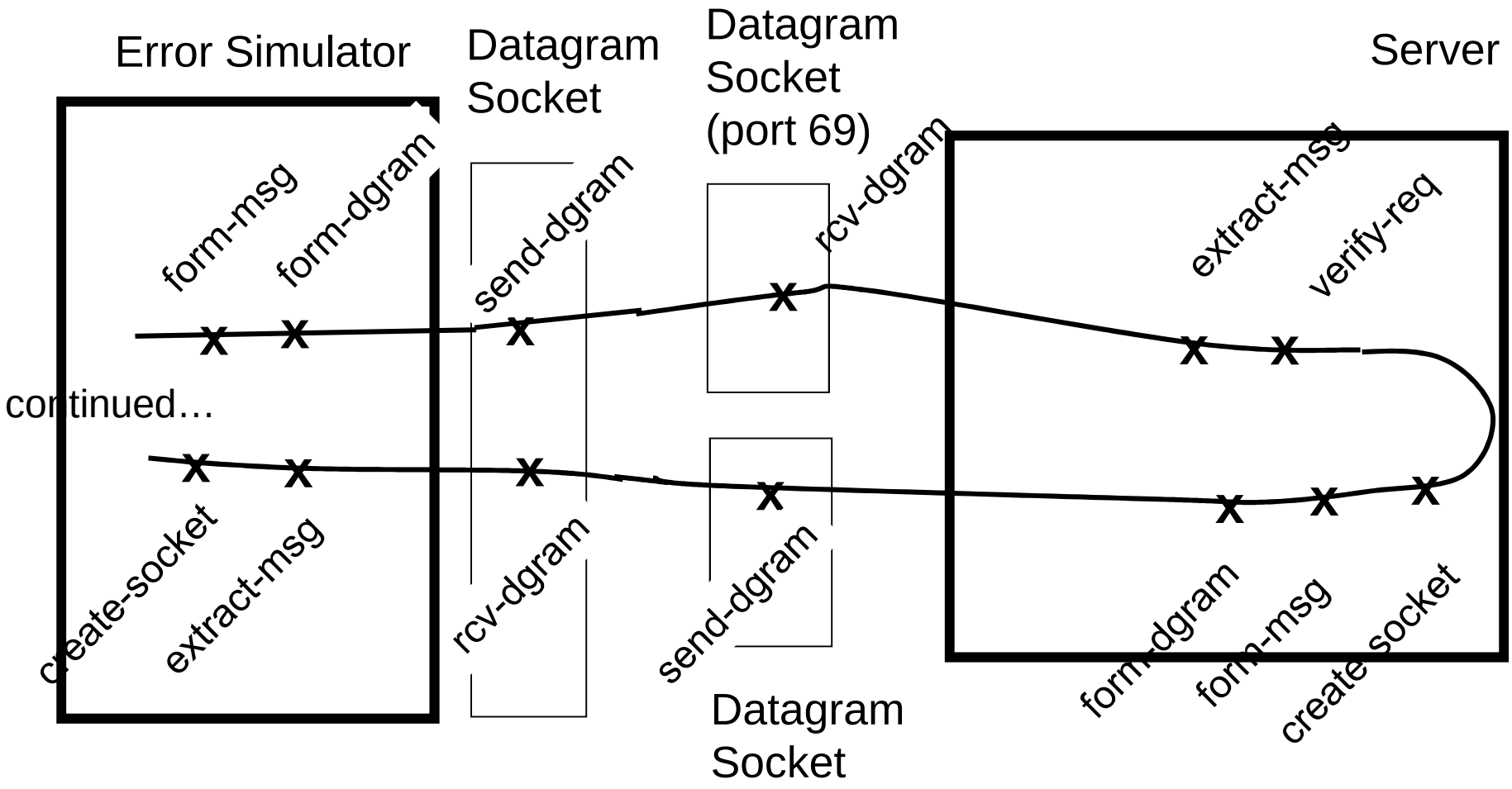
- revised September 1st, 2016

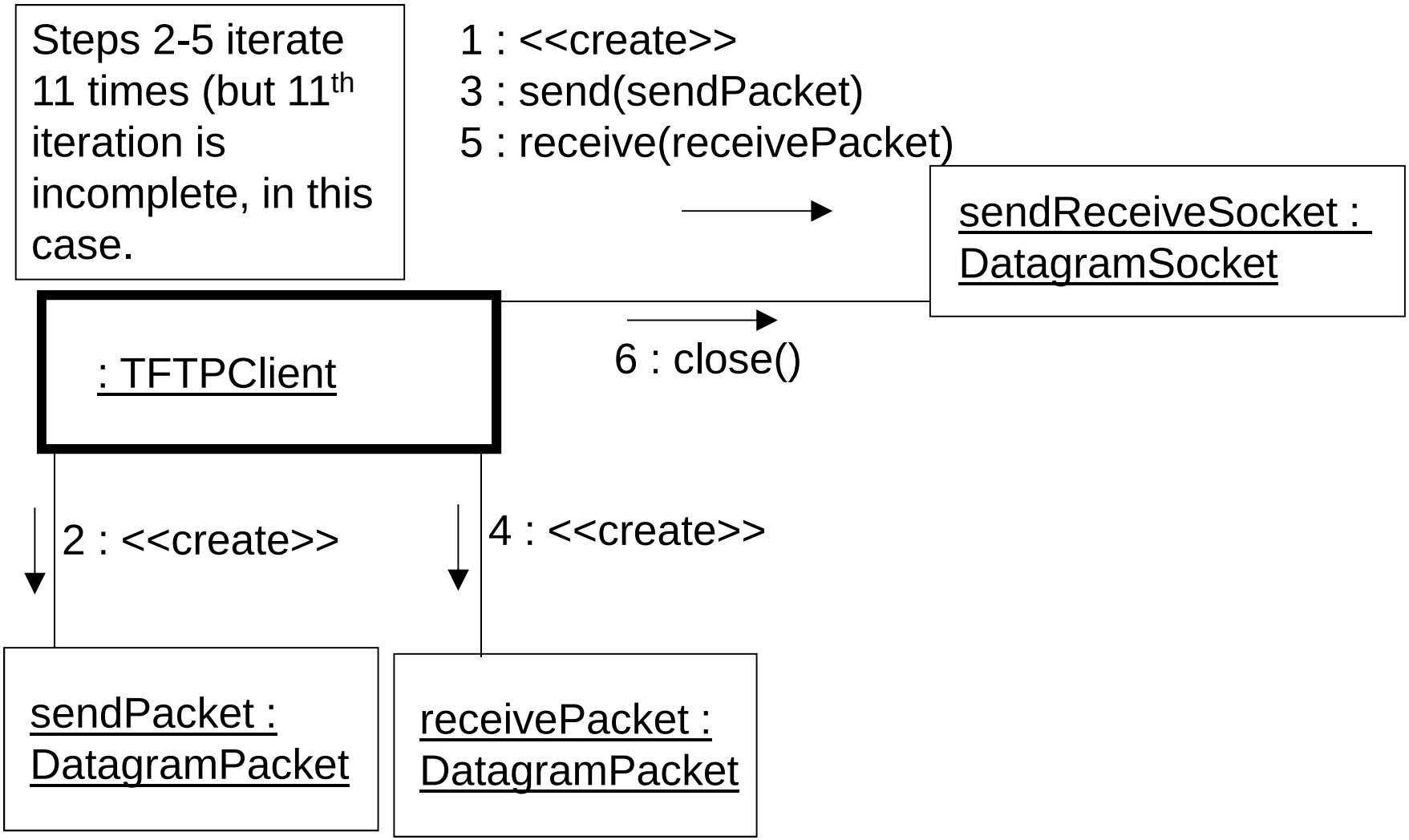
Two page UCM for TFTP System



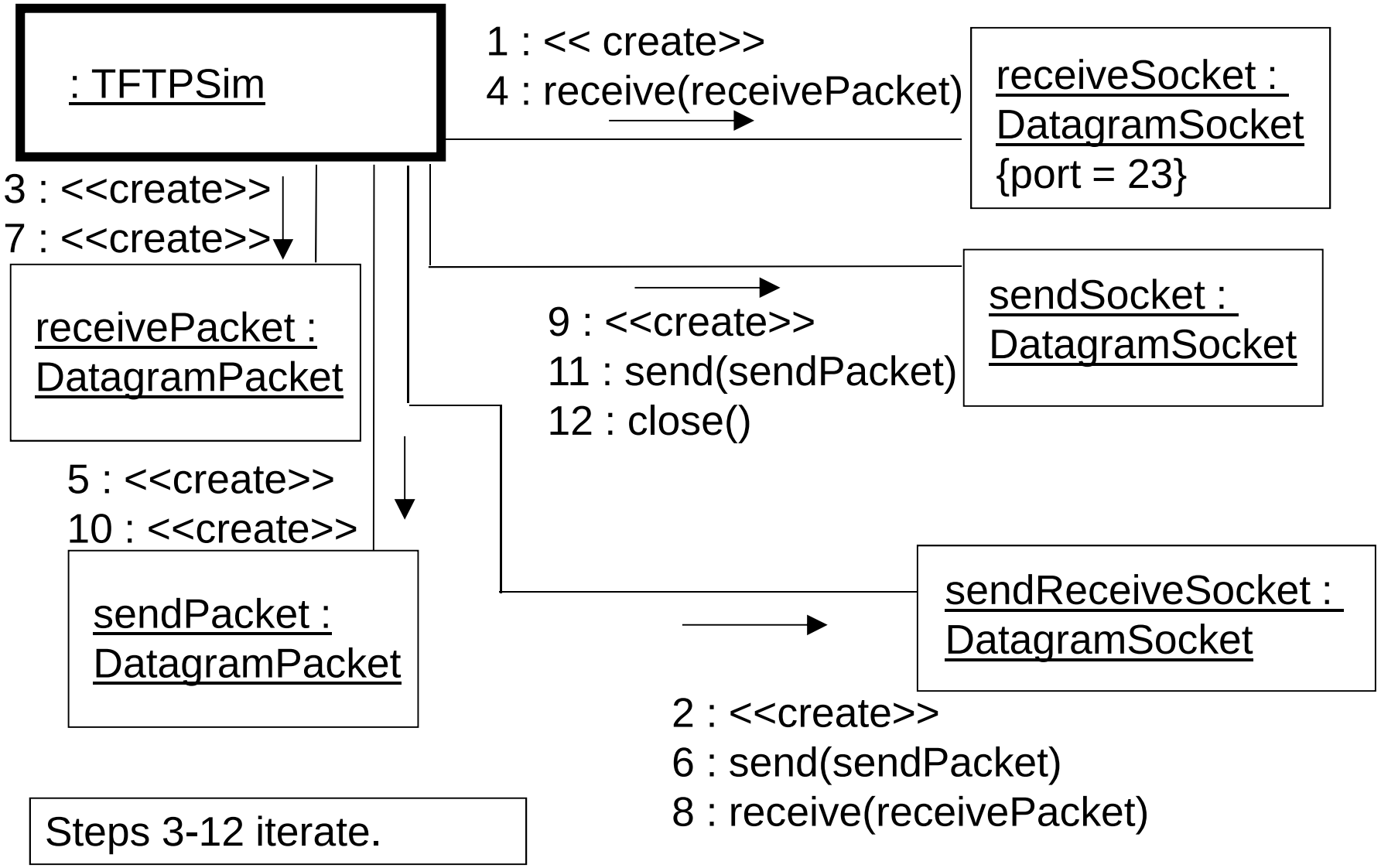
Page 2


Error Simulator
Datagram Socket
Datagram Socket (port 69)
Server
form-msg
form-dgram
send-dgram
rcv-dgram
extract-msg
verify-req
continued…
create-socket
extract-msg
rcv-dgram
send-dgram
form-dgram
form-msg
create-socket
Datagram Socket

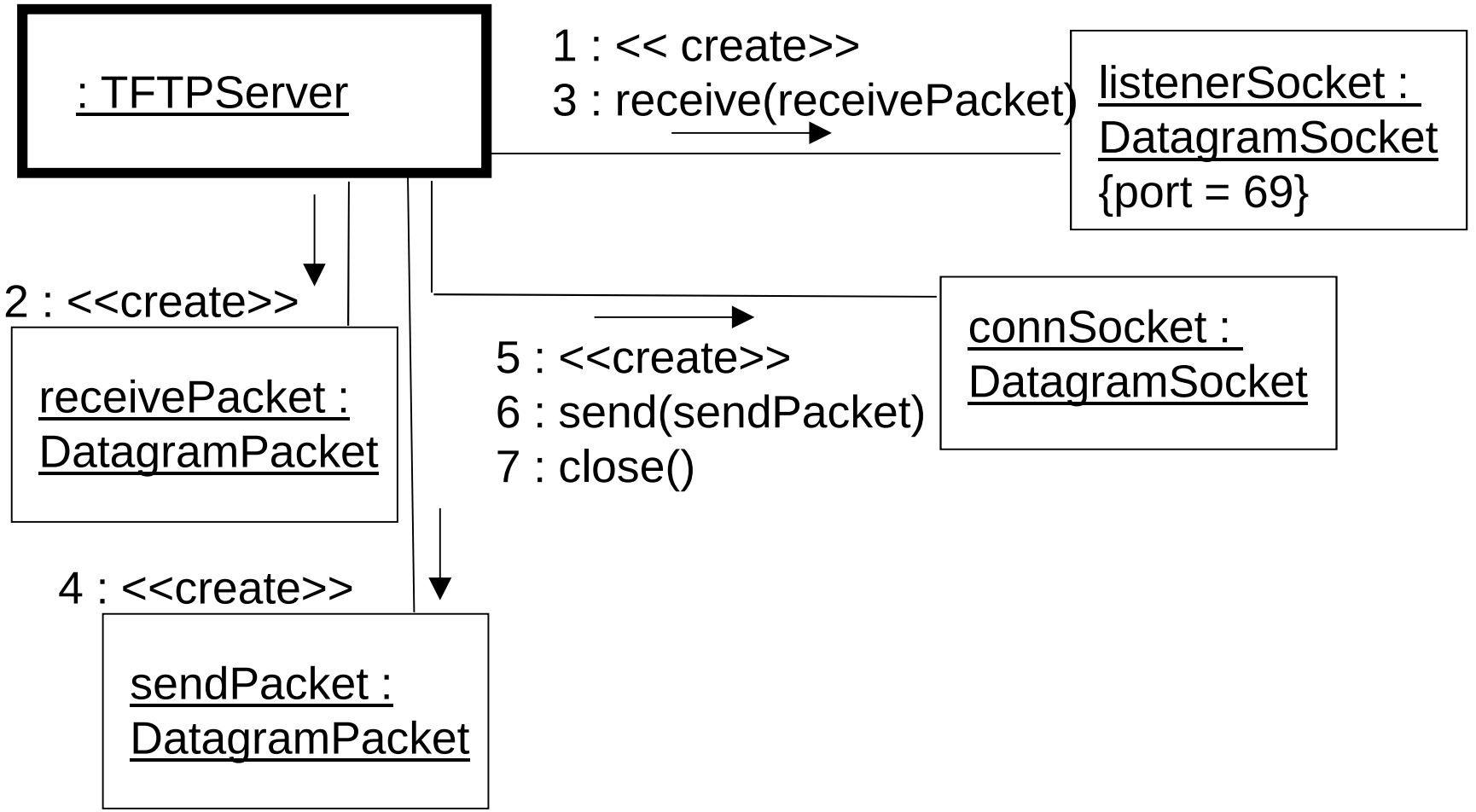
TFTP Client Collaboration Diagram



TFTP Simulator Collaboration Diagram

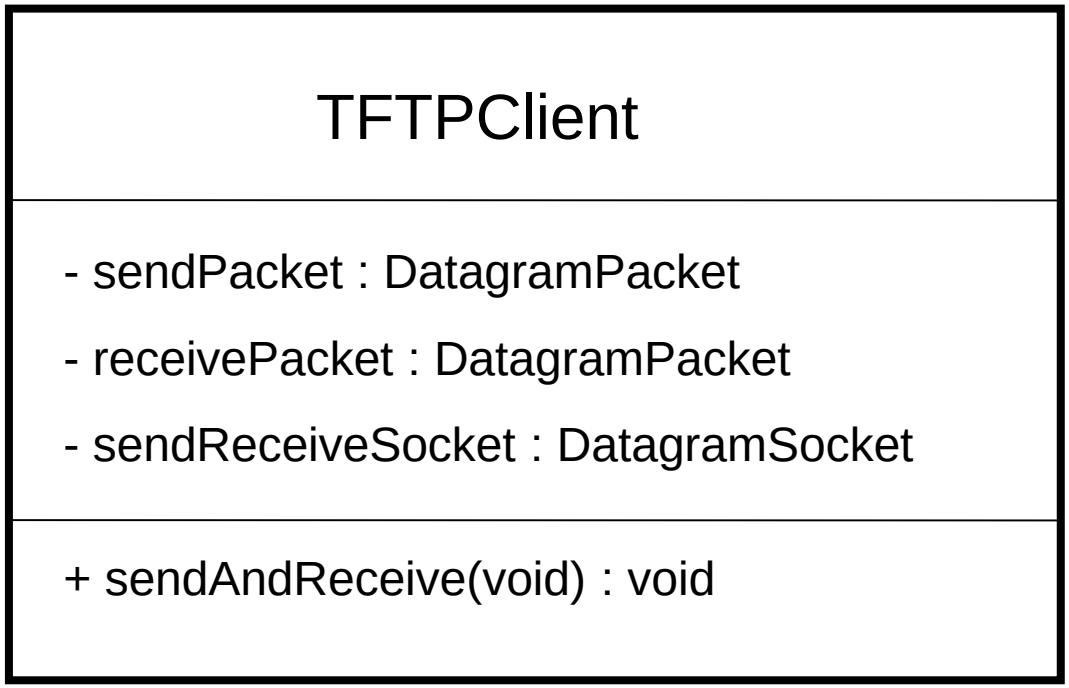


TFTP Server Collaboration Diagram

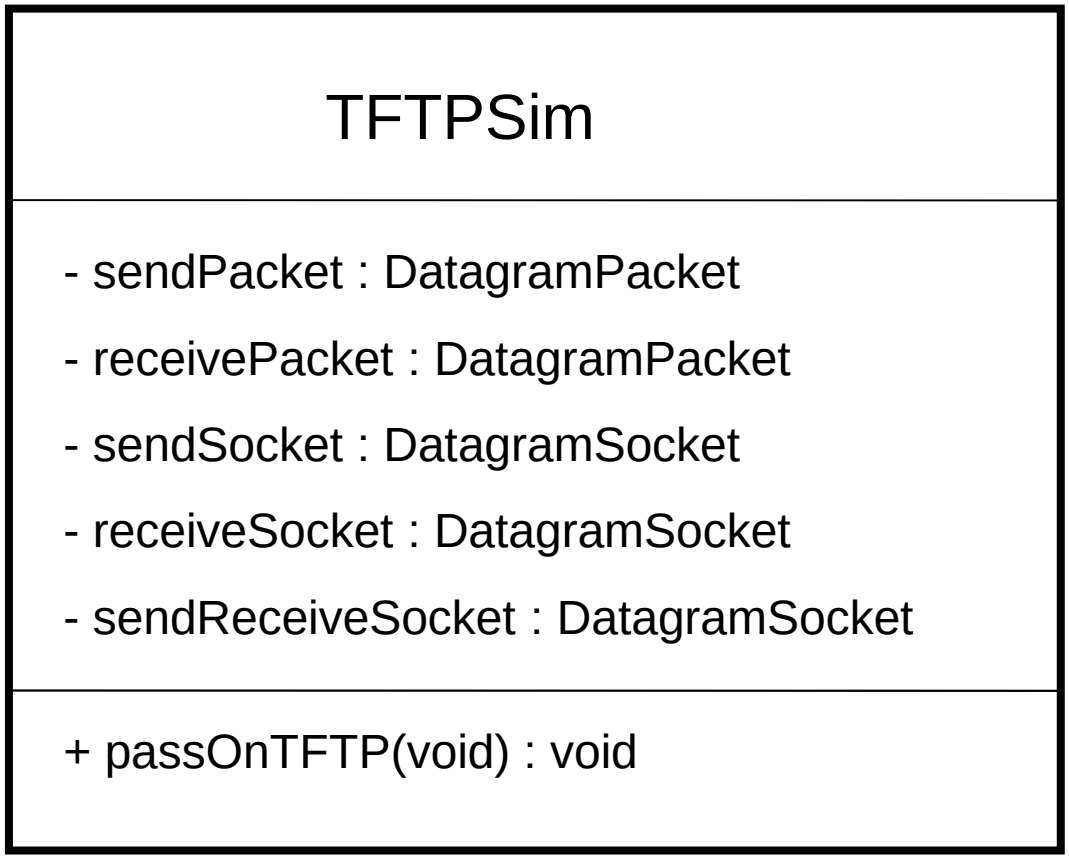
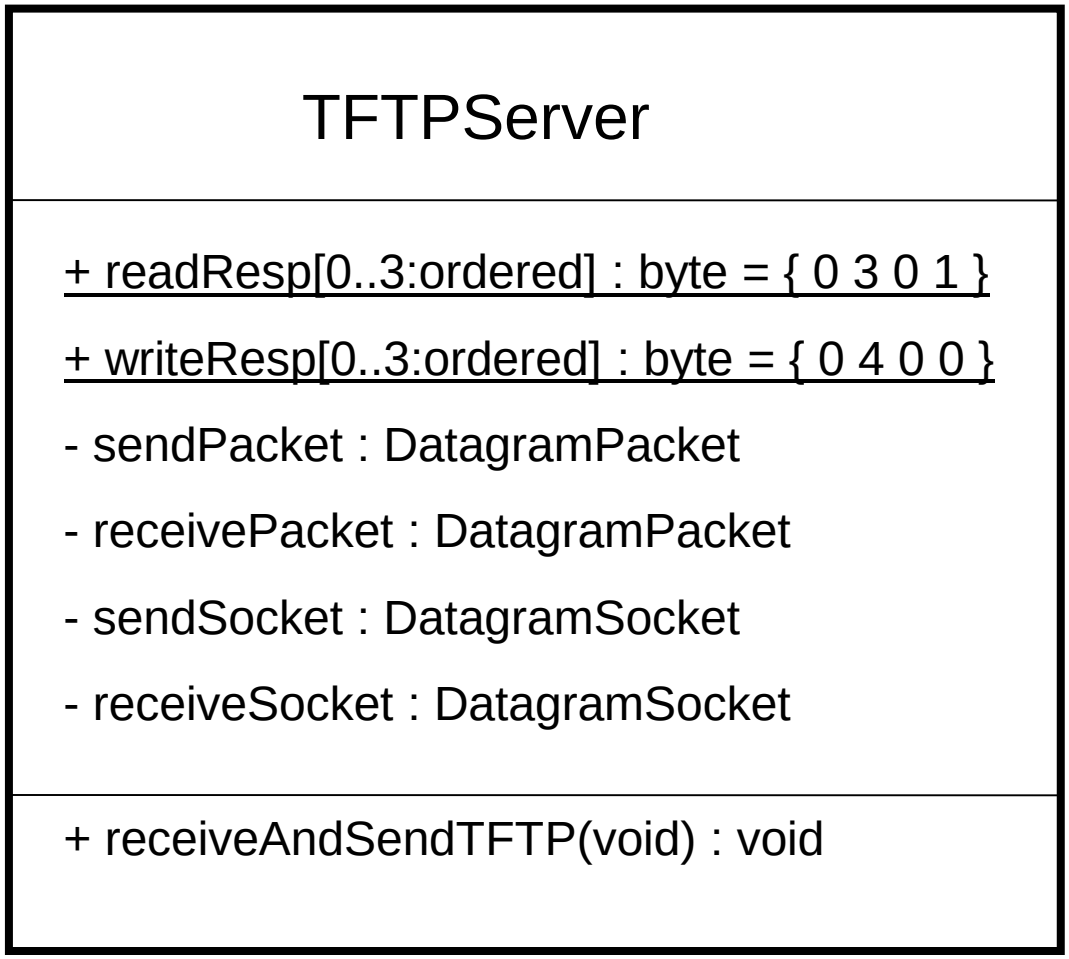


Steps 2-7 iterate; with server throwing an uncaught exception, if the received packet is invalid.

TFTP Class Diagram (p.1 of 3)



TFTP Class Diagram (p.2 of 3)



TFTP Class Diagram (p.3 of 3)