Test	Input	Expected Output	Screenshot
Starting server With normal arguments	./assign2 server	Server starts running and waits for client Passed	benny@zaur[~/D/msg-queue-assign] (develop)\$ ./assign2 server Use './assign2 [high normal low] 753664' to make a request to this server server>
Starting server with invalid arguments	./assign2 serv	Server doesn't start and user gets usage prompt Passed	<pre>benny@zaur[~/D/msg-queue-assign] (develop)\$ ./assign2 serv Usage: ./assign2 [server [high   normal   low] qid] benny@zaur[~/D/msg-queue-assign] (develop)\$ </pre>
Starting high priority client with server running	./assign2 high [server pid]	Client starts Passed	benny@zaur[~/D/msg-queue-assign] (develop)\$ ./assign2 high 786432 client>  ☐
Starting normal priority client with server running	./assign2 normal [server qid]	Client starts Passed	benny@zaur[~/D/msg-queue-assign] (develop)\$ ./assign2 normal 786432 client>
Starting low priority client with server running	./assign2 low [server qid]	Client starts Passed	benny@zaur[~/D/msg-queue-assign] (develop)\$ ./assign2 low 786432 client>   ☐
Invalid priority	./assign2 asdf [bad server qid]	Client doesn't start and user gets usage prompt Passed	benny@zaur[~/D/msg-queue-assign] (develop)\$ ./assign2 asf 786432 Usage: ./assign2 [server [high   normal   low] qid] benny@zaur[~/D/msg-queue-assign] (develop)\$
Starting client without server	./assign2 high [garbage qid]	Client starts but cannot send Passed	<pre>benny@zaur[~/D/msg-queue-assign] (develop)\$ ./assign2 normal 123123 client&gt; big.in Problem writing to the message queue: Invalid argument client&gt; </pre>
Enter a valid file	./assign2 normal [server qid] and then [filename]	Server responds with file Passed	itten aux toleration lucia scar bohemian vested affinity carlo sous penitent simpson abiding coldishonest yawning mustache supplement whirlwind clash terence lamentable bennett farthing specit appellation gdp reserves uncouth birch armchair judy greasy leaden dough lining cleverness at lutch krishna embark quotations friendliness liberally trance untrue rejection grating hanover it ced mon wintry stalwart meats stamping variance apiece firmament absorption apprehensive terminal conveniently 'n' cleanliness collective angela filth philippines timely herein ignoble canton ions moslem ware adjective glen invade livid buggy prolong weaken folio dismissal quay enchant: e purified syrian significantly experimental film repressed cooperation sequel wench calves
Entering invalid file	./assign2 normal [server qid] && [bad filename]	Server responds with error message Passed	<pre>benny@zaur[~/D/msg-queue-assign] (develop)\$ ./assign2 normal 884736 client&gt; asdf.txt client&gt; Error: Could not open file</pre>
Priority with multiple clients work	Starting 3 clients where low priority is started first, then normal then high	High finishes first, then normal, then low Passed	server> New request: [15646/1 big.in] 15648> child started server> New request: [15643/4 big.in] 15649> child started server> New request: [15593/16 big.in] 15650> child started 15650> child is finished and exiting 15649> child is finished and exiting 15648> child is finished and exiting
Quitting the server half during sending does not crash	Start clients and then typing "quit" on server	The clients exit, no zombie processes, clean message queues	benny@zaur[~/D/msg-queue-assign] (master)\$ ipcs Message Queues key msqid owner perms used-bytes messages

zombies are left			See SS1 Below
Quitting the client	Start client and then type "quit"	Client exits Passed	<pre>benny@zaur[~/D/msg-queue-assign] (develop)\$ ./assign2 normal 884736 client&gt; quit benny@zaur[~/D/msg-queue-assign] (develop)\$</pre>

Passed

## SS1

clients and not

