Self-Evaluation

**Group Members:**

Cristian Rivera

**System:**

16’ MacBook Pro (macOS Catalina 10.15.3)

**Test case output:**

Test00:

start2(): started

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. For this reason, I believe I have passed this test case.

Test01:

start2(): started

start2(): MailBoxCreate returned id = 0

start2(): MailBoxCreate returned id = 1

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. For this reason, I believe I have passed this test case.

Test02:

start2(): started, trying to create too many mailboxes...

start2(): MailBoxCreate returned id less than zero, id = -1

start2(): MailBoxCreate returned id less than zero, id = -1

start2(): MailBoxCreate returned id less than zero, id = -1

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. For this reason, I believe I have passed this test case.

Test03:

start2(): started

start2(): MboxCreate returned id = 0

start2(): sending message to mailbox 0

start2(): after send of message, result = 0

start2(): attempting to receive message from mailbox 0

start2(): after receive of message, result = 12

message is `hello there'

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. For this reason, I believe I have passed this test case.

Test04:

start2(): started

start2(): MboxCreate returned id = 0

XXp1(): started

XXp1(): sending message to mailbox 0

XXp1(): after send of message, result = 0

start2(): joined with kid 4, status = -3

XXp2(): started

XXp2(): receiving message from mailbox 0

XXp2(): after receipt of message, result = 12

message = `hello there'

start2(): joined with kid 5, status = -4

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. For this reason, I believe I have passed this test case.

Test05:

start2(): started

start2(): MboxCreate returned id = 0

XXp2(): started

XXp2(): receiving message from mailbox 0

XXp1(): started

XXp1(): sending message to mailbox 0

XXp2(): after receipt of message, result = 12

message = `hello there'

start2(): joined with kid 5, status = -4

XXp1(): after send of message, result = 0

start2(): joined with kid 4, status = -3

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. For this reason, I believe I have passed this test case.

Test06:

start2(): started

start2(): MboxCreate returned id = 0

XXp1(): started

XXp1(): sending message #0 to mailbox 0

XXp1(): after send of message #0, result = 0

XXp1(): sending message #1 to mailbox 0

XXp1(): after send of message #1, result = 0

XXp1(): sending message #2 to mailbox 0

XXp1(): after send of message #2, result = 0

XXp1(): sending message #3 to mailbox 0

XXp1(): after send of message #3, result = 0

XXp1(): sending message #4 to mailbox 0

XXp1(): after send of message #4, result = 0

XXp1(): sending message #5 to mailbox 0

XXp2(): started

XXp2(): receiving message #0 from mailbox 0

XXp1(): after send of message #5, result = 0

start2(): joined with kid 4, status = -3

XXp2(): after receipt of message #0, result = 16

message = `hello there, #0'

XXp2(): receiving message #1 from mailbox 0

XXp2(): after receipt of message #1, result = 16

message = `hello there, #1'

XXp2(): receiving message #2 from mailbox 0

XXp2(): after receipt of message #2, result = 16

message = `hello there, #2'

XXp2(): receiving message #3 from mailbox 0

XXp2(): after receipt of message #3, result = 16

message = `hello there, #3'

XXp2(): receiving message #4 from mailbox 0

XXp2(): after receipt of message #4, result = 16

message = `hello there, #4'

XXp2(): receiving message #5 from mailbox 0

XXp2(): after receipt of message #5, result = 16

message = `hello there, #5'

start2(): joined with kid 5, status = -4

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. For this reason, I believe I have passed this test case.

Test07:

start2(): started

start2(): MboxCreate returned id = 0

XXp1(): started

XXp1(): sending message #0 to mailbox 0

XXp1(): after send of message #0, result = 0

XXp1(): sending message #1 to mailbox 0

XXp1(): after send of message #1, result = 0

XXp1(): sending message #2 to mailbox 0

XXp1(): after send of message #2, result = 0

XXp1(): sending message #3 to mailbox 0

XXp1(): after send of message #3, result = 0

XXp1(): sending message #4 to mailbox 0

XXp1(): after send of message #4, result = 0

start2(): joined with kid 4, status = -3

XXp2a(): sending message 'hello from XXp2a' to mailbox 0, msg\_size = 17

XXp2b(): sending message 'hello from XXp2b' to mailbox 0, msg\_size = 17

XXp2c(): sending message 'hello from XXp2c' to mailbox 0, msg\_size = 17

XXp3(): started

XXp3(): receiving message #0 from mailbox 0

XXp2a(): after send of message 'hello from XXp2a', result = 0

start2(): joined with kid 5, status = -3

XXp2b(): after send of message 'hello from XXp2b', result = 0

start2(): joined with kid 6, status = -3

XXp2c(): after send of message 'hello from XXp2c', result = 0

start2(): joined with kid 7, status = -3

XXp3(): after receipt of message #0, result = 16

message = `hello there, #0'

XXp3(): receiving message #1 from mailbox 0

XXp3(): after receipt of message #1, result = 16

message = `hello there, #1'

XXp3(): receiving message #2 from mailbox 0

XXp3(): after receipt of message #2, result = 16

message = `hello there, #2'

XXp3(): receiving message #3 from mailbox 0

XXp3(): after receipt of message #3, result = 16

message = `hello there, #3'

XXp3(): receiving message #4 from mailbox 0

XXp3(): after receipt of message #4, result = 16

message = `hello there, #4'

XXp3(): receiving message #5 from mailbox 0

XXp3(): after receipt of message #5, result = 17

message = `hello from XXp2a'

XXp3(): receiving message #6 from mailbox 0

XXp3(): after receipt of message #6, result = 17

message = `hello from XXp2b'

XXp3(): receiving message #7 from mailbox 0

XXp3(): after receipt of message #7, result = 17

message = `hello from XXp2c'

start2(): joined with kid 8, status = -4

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. The only difference is in the order in which XXp3 prints its final output lines. The values output from the entire program is exactly the same otherwise. For this reason, I believe I have passed this test case.

Test08:

start2(): started

start2(): MboxCreate returned id = 0

XXp1(): started

XXp1(): sending message #0 to mailbox 0

XXp1(): after send of message #0, result = 0

XXp1(): sending message #1 to mailbox 0

XXp1(): after send of message #1, result = 0

XXp1(): sending message #2 to mailbox 0

XXp1(): after send of message #2, result = 0

XXp1(): sending message #3 to mailbox 0

XXp1(): after send of message #3, result = 0

XXp1(): sending message #4 to mailbox 0

XXp1(): after send of message #4, result = 0

start2(): joined with kid 4, status = -3

XXp2a(): sending message 'hello from XXp2a' to mailbox 0, msg\_size = 17

XXp2b(): sending message 'hello from XXp2b' to mailbox 0, msg\_size = 17

XXp2c(): sending message 'hello from XXp2c' to mailbox 0, msg\_size = 17

XXp3(): started

XXp2a(): after send of message 'hello from XXp2a', result = -3

XXp2a(): zap'd by MboxSend() call

start2(): joined with kid 5, status = -3

XXp2b(): after send of message 'hello from XXp2b', result = -3

XXp2b(): zap'd by MboxSend() call

start2(): joined with kid 6, status = -3

XXp2c(): after send of message 'hello from XXp2c', result = -3

XXp2c(): zap'd by MboxSend() call

start2(): joined with kid 7, status = -3

XXp3(): MboxRelease returned 0

start2(): joined with kid 8, status = -4

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. For this reason, I believe I have passed this test case.

Test09:

start2(): MboxCreate returned id = 0

XXp1(): started

XXp1(): sending message #0 to mailbox 0

XXp1(): after send of message #0, result = 0

XXp1(): sending message #1 to mailbox 0

XXp1(): after send of message #1, result = 0

XXp1(): sending message #2 to mailbox 0

XXp1(): after send of message #2, result = 0

XXp1(): sending message #3 to mailbox 0

XXp1(): after send of message #3, result = 0

XXp1(): sending message #4 to mailbox 0

XXp1(): after send of message #4, result = 0

start2(): joined with kid 4, status = -3

XXp2a(): sending message 'hello from XXp2a' to mailbox 0, msg\_size = 17

XXp2b(): sending message 'hello from XXp2b' to mailbox 0, msg\_size = 17

XXp2c(): sending message 'hello from XXp2c' to mailbox 0, msg\_size = 17

XXp4(): started and quitting

XXp3(): started

XXp3(): MboxRelease returned 0

start2(): joined with kid 9, status = -4

XXp2a(): after send of message 'hello from XXp2a', result = -3

XXp2a(): zap'd by MboxSend() call

start2(): joined with kid 5, status = -3

XXp2b(): after send of message 'hello from XXp2b', result = -3

XXp2b(): zap'd by MboxSend() call

start2(): joined with kid 6, status = -3

XXp2c(): after send of message 'hello from XXp2c', result = -3

XXp2c(): zap'd by MboxSend() call

start2(): joined with kid 7, status = -3

All processes completed.

My output is showing the same values as the Phase 2 Output Data I was emailed. There is a slight discrepancy in the order in which the output is displayed. This is due to the higher priority held by XXp3 over XXp2. For this reason, I believe I have passed this test case.

Test10:

start2(): started

start2(): MboxCreate returned id = 0

XXp1(): started

XXp1(): sending message #0 to mailbox 0

XXp1(): after send of message #0, result = 0

XXp1(): sending message #1 to mailbox 0

XXp1(): after send of message #1, result = 0

XXp1(): sending message #2 to mailbox 0

XXp1(): after send of message #2, result = 0

XXp1(): sending message #3 to mailbox 0

XXp1(): after send of message #3, result = 0

XXp1(): sending message #4 to mailbox 0

XXp1(): after send of message #4, result = 0

start2(): joined with kid 4, status = -3

XXp2a(): conditionally sending message 'hello from XXp2a' to mailbox 0, msg\_size = 17

XXp2a(): after conditional send of message 'hello from XXp2a', result = -2

start2(): joined with kid 5, status = -3

XXp2b(): sending message 'hello from XXp2b' to mailbox 0, msg\_size = 17

XXp2c(): conditionally sending message 'hello from XXp2c' to mailbox 0, msg\_size = 17

XXp2c(): after conditional send of message 'hello from XXp2c', result = -2

start2(): joined with kid 7, status = -3

XXp3(): started

XXp3(): receiving message #0 from mailbox 0

XXp2b(): after send of message 'hello from XXp2b', result = 0

start2(): joined with kid 6, status = -3

XXp3(): after receipt of message #0, result = 16

message = `hello there, #0'

XXp3(): receiving message #1 from mailbox 0

XXp3(): after receipt of message #1, result = 16

message = `hello there, #1'

XXp3(): receiving message #2 from mailbox 0

XXp3(): after receipt of message #2, result = 16

message = `hello there, #2'

XXp3(): receiving message #3 from mailbox 0

XXp3(): after receipt of message #3, result = 16

message = `hello there, #3'

XXp3(): receiving message #4 from mailbox 0

XXp3(): after receipt of message #4, result = 16

message = `hello there, #4'

XXp3(): receiving message #5 from mailbox 0

XXp3(): after receipt of message #5, result = 17

message = `hello from XXp2b'

start2(): joined with kid 8, status = -4

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. For this reason, I believe I have passed this test case.

Test15:

start2(): started

start2(): MboxCreate returned id = 0

start2(): sending message to mailbox 0

start2(): after send of message, result = -1

message too big

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. For this reason, I believe I have passed this test case.

Test16:

start2(): started, trying to exceed mailslots...

finally the slots are over at mailbox 45 and slot 25

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. For this reason, I believe I have passed this test case.

Test23:

start2(): started

start2(): MboxCreate returned id = 0

XXp3(): started

XXp3(): fork'ing XXp2 at priority 4

XXp2(): started

XXp2(): priority 4, receiving message from mailbox 0

XXp3(): fork'ing XXp2 at priority 2

XXp2(): started

XXp2(): priority 2, receiving message from mailbox 0

XXp3(): fork'ing XXp2 at priority 2

XXp2(): started

XXp2(): priority 2, receiving message from mailbox 0

XXp3(): fork'ing XXp1 at priority 1

XXp1(): started

XXp1(): sending message #1 to mailbox 0

XXp1(): sending message #2 to mailbox 0

XXp1(): sending message #3 to mailbox 0

XXp2(): priority 2, after receipt of message, result = 14

message = `First message'

XXp2(): priority 2, after receipt of message, result = 15

message = `Second message'

XXp2(): priority 4, after receipt of message, result = 14

message = `Third message'

XXp3(): join'd with child 8 whose status is -1

XXp3(): join'd with child 6 whose status is -2

XXp3(): join'd with child 7 whose status is -2

XXp3(): join'd with child 5 whose status is -4

start2(): joined with kid 4, status = -5

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. For this reason, I believe I have passed this test case.

Test24:

start2(): started

start2(): MboxCreate returned id = 0

XXp3(): started, about to send 5 messages to the mailbox

XXp3(): sending message #1 to mailbox 0

XXp3(): sending message #2 to mailbox 0

XXp3(): sending message #3 to mailbox 0

XXp3(): sending message #4 to mailbox 0

XXp3(): sending message #5 to mailbox 0

XXp3(): fork'ing XXp2 at priority 4

XXp2(): started

XXp2(): priority 4, sending message to mailbox 0

XXp3(): fork'ing XXp2 at priority 3

XXp2(): started

XXp2(): priority 3, sending message to mailbox 0

XXp3(): fork'ing XXp2 at priority 2

XXp2(): started

XXp2(): priority 2, sending message to mailbox 0

XXp3(): fork'ing XXp1 at priority 1

XXp1(): started

XXp1(): received message #1 containing: First message

XXp1(): received message #2 containing: Second message

XXp1(): received message #3 containing: Third message

XXp1(): received message #4 containing: Fourth message

XXp1(): received message #5 containing: Fifth message

XXp1(): received message #6 containing: Sixth message

XXp1(): received message #7 containing: Seventh message

XXp1(): received message #8 containing: Eighth message

XXp2(): priority 2, after sending message, result = 0

XXp2(): priority 3, after sending message, result = 0

XXp2(): priority 4, after sending message, result = 0

XXp3(): join'd with child 8 whose status is -1

XXp3(): join'd with child 7 whose status is -2

XXp3(): join'd with child 6 whose status is -3

XXp3(): join'd with child 5 whose status is -4

start2(): joined with kid 4, status = -5

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. For this reason, I believe I have passed this test case.

Test25:

start2(): started, trying to create too many mailboxes...

start2(): calling MboxRelease(0)

start2(): calling MboxRelease(0) returned 0

start2(): calling MboxRelease(1)

start2(): calling MboxRelease(1) returned 0

start2(): calling MboxRelease(2)

start2(): calling MboxRelease(2) returned 0

start2(): calling MboxRelease(3)

start2(): calling MboxRelease(3) returned 0

start2(): calling MboxRelease(4)

start2(): calling MboxRelease(4) returned 0

start2(): calling MboxRelease(5)

start2(): calling MboxRelease(5) returned 0

start2(): MailBoxCreate returned id = 1995

start2(): MailBoxCreate returned id = 1996

start2(): MailBoxCreate returned id = 1997

start2(): MailBoxCreate returned id = 1998

start2(): MailBoxCreate returned id = 1999

start2(): MailBoxCreate returned id = 2010

start2(): MailBoxCreate returned id = 2011

start2(): MailBoxCreate returned id = 2012

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. There is one discrepancy in the IDs of the mailboxes, however there was an announcement stating a difference in IDs was okay. For this reason, I believe I have passed this test case.

Test26:

start2(): started

start2(): MboxCreate returned id = 0

XXp1(): started

XXp1(): receiving message #0 from mailbox 0

XXp2a(): receive message from mailbox 0, msg\_size = 20

XXp2c(): receive message from mailbox 0, msg\_size = 20

XXp2b(): receive message from mailbox 0, msg\_size = 20

XXp3(): started

XXp1(): after receive of message #0, result = -3

XXp1(): receiving message #1 from mailbox 0

XXp1(): after receive of message #1, result = -1

XXp1(): receiving message #2 from mailbox 0

XXp1(): after receive of message #2, result = -1

XXp1(): receiving message #3 from mailbox 0

XXp1(): after receive of message #3, result = -1

XXp1(): receiving message #4 from mailbox 0

XXp1(): after receive of message #4, result = -1

XXp1(): sending message #0 to mailbox 0

XXp1(): after send of message #0, result = -1

XXp1(): sending message #1 to mailbox 0

XXp1(): after send of message #1, result = -1

XXp1(): sending message #2 to mailbox 0

XXp1(): after send of message #2, result = -1

XXp1(): sending message #3 to mailbox 0

XXp1(): after send of message #3, result = -1

XXp1(): sending message #4 to mailbox 0

XXp1(): after send of message #4, result = -1

start2(): joined with kid 4, status = -3

XXp2a(): after receive of message result = -3

XXp2a(): zap'd by MboxReceive() call

start2(): joined with kid 5, status = -3

XXp2c(): after receive of message result = -3

XXp2c(): zap'd by MboxReceive() call

start2(): joined with kid 7, status = -3

XXp2b(): after receive of message result = -3

XXp2b(): zap'd by MboxReceive() call

start2(): joined with kid 6, status = -3

XXp3(): MboxRelease returned 0

start2(): joined with kid 8, status = -4

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. For this reason, I believe I have passed this test case.

Test27:

start2(): started

start2(): MboxCreate returned id = 0

XXp2c(): receive message from mailbox 0, msg\_size = 20

XXp2b(): receive message from mailbox 0, msg\_size = 20

XXp2a(): receive message from mailbox 0, msg\_size = 20

XXp1(): started

XXp1(): receiving message #0 from mailbox 0

XXp4(): started and quitting

XXp3(): started

XXp3(): MboxRelease returned 0

start2(): joined with kid 9, status = -4

XXp2c(): after receive of message result = -3

XXp2c(): zap'd by MboxReceive() call

start2(): joined with kid 7, status = -3

XXp2b(): after receive of message result = -3

XXp2b(): zap'd by MboxReceive() call

start2(): joined with kid 6, status = -3

XXp2a(): after receive of message result = -3

XXp2a(): zap'd by MboxReceive() call

start2(): joined with kid 5, status = -3

XXp1(): after receive of message #0, result = -3

XXp1(): receiving message #1 from mailbox 0

XXp1(): after receive of message #1, result = -1

XXp1(): receiving message #2 from mailbox 0

XXp1(): after receive of message #2, result = -1

XXp1(): receiving message #3 from mailbox 0

XXp1(): after receive of message #3, result = -1

XXp1(): receiving message #4 from mailbox 0

XXp1(): after receive of message #4, result = -1

XXp1(): sending message #0 to mailbox 0

XXp1(): after send of message #0, result = -1

XXp1(): sending message #1 to mailbox 0

XXp1(): after send of message #1, result = -1

XXp1(): sending message #2 to mailbox 0

XXp1(): after send of message #2, result = -1

XXp1(): sending message #3 to mailbox 0

XXp1(): after send of message #3, result = -1

XXp1(): sending message #4 to mailbox 0

XXp1(): after send of message #4, result = -1

start2(): joined with kid 4, status = -3

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. For this reason, I believe I have passed this test case.

Test30:

start2(): started

start2(): MboxCreate returned id = 0

start2(): sending message to mailbox 0

start2(): after send of message, result = 0

XXp3(): sending message to mailbox 0

XXp2(): sending message to mailbox 0

XXp1(): sending message to mailbox 0

XXp4(): Releasing MailBox 0

XXp3(): after send of message, result = -3

XXp2(): after send of message, result = -3

XXp4(): after release of mailbox, result = 0

XXp1(): after send of message, result = -3

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. For this reason, I believe I have passed this test case.

Test31:

start2(): started

start2(): MboxCreate returned id = 0

start2(): sending message to mailbox 0

XXp3(): receiving message from mailbox 0, should block

XXp2(): receiving message from mailbox 0 should block

XXp1(): receiving message to mailbox 0 should block

XXp4(): Releasing Mailbox 0

XXp3(): after send of message, result = -3

XXp2(): after send of message, result = -3

XXp4(): after release of mailbox, result = 0

XXp1(): after send of message, result = -3

start2(): after send of message, result = -3

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. For this reason, I believe I have passed this test case.

Test33:

start2(): started

start2(): MboxCreate returned id = 0

start2(): sending message to mailbox 0

start2(): after send of message, result = 0

start2(): attempting to receive message from mailbox 0

start2(): after receive of message, result = 12

message is `hello there'

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. For this reason, I believe I have passed this test case.

Test34:

start2(): started

start2(): MboxCreate returned id = 0

start2(): sending message to mailbox 0

start2(): after send of message, result = -1

start2(): message was too large (expected).

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. For this reason, I believe I have passed this test case.

Test35:

start2(): started, creating with slot\_size too big

start2(): MailBoxCreate returned id = -1

start2(): passed...

start2(): started, creating with slot\_size -1

start2(): MailBoxCreate returned id = -1

start2(): passed...

start2(): started, creating with slot\_num -1

start2(): MailBoxCreate returned id = -1

start2(): passed...

start2(): started creating with slot\_num 2, slot\_size 0

start2(): MailBoxCreate returned id = 0

start2(): passed...

start2(): sending message to mailbox 0

start2(): after send of message, result = 0

start2(): passed...

start2(): sending message to mailbox 0

start2(): after send of message, result = 0

start2(): passed...

start2(): attempting to receive message from mailbox 0

start2(): after receive of message, result = 0

start2(): passed...

start2(): attempting to receive message from mailbox 0

start2(): after receive of message, result = 0

start2(): passed...

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. My output also all says my code passed. For these reasons, I believe I have passed this test case.

Test39:

start2(): started

start2(): MboxCreate returned id = 0

start2(): after send of message, result = 0

start2(): Attempting to receive message fm mailbox 0.

Should fail here because it's receive buffer is

too small

start2(): after receive of message, result = -1

message is `'

start2(): got that message was too big. PASSED!

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. My output also all says my code passed. For these reasons, I believe I have passed this test case.

Test40:

start2(): started

start2(): MboxCreate returned id = 0

start2(): Attempting to receive message from mailbox 0

But it is blocked because the slots are empty.

Then it should fail due to buffer size too small

XXp1(): started

XXp1(): arg = `'

start2(): after receive of message, result = -1

message is `'

start2(): got that message was too big. PASSED!

start2(): joining with child

XXp1(): after send of message, result = 0

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. My output also all says my code passed. For these reasons, I believe I have passed this test case.

Test41:

start2(): started

start2(): MboxCreate returned id = 0

start2(): MboxCreate returned id = 1

XXp1(): started

XXp1(): conditionally sending message #0 to mailbox 0

XXp1(): after conditional send of message #0, result = 0

XXp1(): conditionally sending message #1 to mailbox 0

XXp1(): after conditional send of message #1, result = 0

XXp1(): conditionally sending message #2 to mailbox 0

XXp1(): after conditional send of message #2, result = 0

XXp1(): conditionally sending message #3 to mailbox 0

XXp1(): after conditional send of message #3, result = 0

XXp1(): conditionally sending message #4 to mailbox 0

XXp1(): after conditional send of message #4, result = 0

XXp1(): conditionally sending message #5 to mailbox 0

XXp1(): after conditional send of message #5, result = -2

XXp1(): conditionally sending message #6 to mailbox 0

XXp1(): after conditional send of message #6, result = -2

XXp1(): conditionally sending message #7 to mailbox 0

XXp1(): after conditional send of message #7, result = -2

XXp1(): conditionally sending message #0 to mailbox 0

XXp1(): after conditional send of message #0, result = -2

XXp1(): conditionally sending message #1 to mailbox 0

XXp1(): after conditional send of message #1, result = -2

XXp1(): conditionally sending message #2 to mailbox 0

XXp1(): after conditional send of message #2, result = -2

XXp1(): conditionally sending message #3 to mailbox 0

XXp1(): after conditional send of message #3, result = -2

XXp1(): conditionally sending message #4 to mailbox 0

XXp1(): after conditional send of message #4, result = -2

XXp1(): conditionally sending message #5 to mailbox 0

XXp1(): after conditional send of message #5, result = -2

XXp1(): conditionally sending message #6 to mailbox 0

XXp1(): after conditional send of message #6, result = -2

XXp1(): conditionally sending message #7 to mailbox 0

XXp1(): after conditional send of message #7, result = -2

start2(): joined with kid 4, status = -3

XXp3(): started

XXp3(): conditionally received message #0 from mailbox 0

message = `hello there, #0'

XXp3(): conditionally received message #0 from mailbox 0

message = `hello there, #1'

XXp3(): conditionally received message #0 from mailbox 0

message = `hello there, #2'

XXp3(): conditionally received message #0 from mailbox 0

message = `hello there, #3'

XXp3(): conditionally received message #0 from mailbox 0

message = `hello there, #4'

XXp3(): After loop, result is negative; result = -2

XXp3(): received 5 hello messages from mailbox 0

XXp3(): After loop, result is negative; result = -2

XXp3(): received 0 good-bye messages from mailbox 0

start2(): joined with kid 5, status = -4

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. For this reason, I believe I have passed this test case.

Test42:

start2(): started

start2(): MboxCreate returned id = 0

start2(): forking XXp1

start2(): forking XXp2

XXp1(): started

XXp1(): sending message #0 to mailbox 0

XXp1(): after send of message #0, result = 0

XXp1(): sending message #500 to mailbox 0

XXp1(): after send of message #500, result = 0

XXp1(): sending message #1000 to mailbox 0

XXp1(): after send of message #1000, result = 0

XXp1(): sending message #1201 to mailbox 0

XXp1(): after send of message #1201, result = 0

XXp1(): sending message #1202 to mailbox 0

XXp1(): after send of message #1202, result = 0

XXp1(): sending message #1203 to mailbox 0

XXp1(): after send of message #1203, result = 0

XXp1(): sending message #1204 to mailbox 0

XXp1(): after send of message #1204, result = 0

XXp1(): sending message #1205 to mailbox 0

XXp1(): after send of message #1205, result = 0

XXp1(): sending message #1206 to mailbox 0

XXp1(): after send of message #1206, result = 0

XXp1(): sending message #1207 to mailbox 0

XXp1(): after send of message #1207, result = 0

XXp1(): sending message #1208 to mailbox 0

XXp1(): after send of message #1208, result = 0

XXp1(): sending message #1209 to mailbox 0

XXp1(): after send of message #1209, result = 0

XXp1(): sending message #1210 to mailbox 0

XXp1(): after send of message #1210, result = 0

XXp1(): sending message #1211 to mailbox 0

XXp1(): after send of message #1211, result = 0

XXp1(): sending message #1212 to mailbox 0

XXp1(): after send of message #1212, result = 0

XXp1(): sending message #1213 to mailbox 0

XXp1(): after send of message #1213, result = 0

XXp1(): sending message #1214 to mailbox 0

XXp1(): after send of message #1214, result = 0

XXp1(): sending message #1215 to mailbox 0

XXp1(): after send of message #1215, result = 0

XXp1(): sending message #1216 to mailbox 0

XXp1(): after send of message #1216, result = 0

XXp1(): sending message #1217 to mailbox 0

XXp1(): after send of message #1217, result = 0

XXp1(): sending message #1218 to mailbox 0

XXp1(): after send of message #1218, result = 0

XXp1(): sending message #1219 to mailbox 0

XXp1(): after send of message #1219, result = 0

XXp1(): sending message #1220 to mailbox 0

XXp1(): after send of message #1220, result = 0

XXp1(): sending message #1221 to mailbox 0

XXp1(): after send of message #1221, result = 0

XXp1(): sending message #1222 to mailbox 0

XXp1(): after send of message #1222, result = 0

XXp1(): sending message #1223 to mailbox 0

XXp1(): after send of message #1223, result = 0

XXp1(): sending message #1224 to mailbox 0

XXp1(): after send of message #1224, result = 0

XXp1(): sending message #1225 to mailbox 0

XXp1(): after send of message #1225, result = 0

XXp1(): sending message #1226 to mailbox 0

XXp1(): after send of message #1226, result = 0

XXp1(): sending message #1227 to mailbox 0

XXp1(): after send of message #1227, result = 0

XXp1(): sending message #1228 to mailbox 0

XXp1(): after send of message #1228, result = 0

XXp1(): sending message #1229 to mailbox 0

XXp1(): after send of message #1229, result = 0

XXp1(): sending message #1230 to mailbox 0

XXp1(): after send of message #1230, result = 0

XXp1(): sending message #1231 to mailbox 0

XXp1(): after send of message #1231, result = 0

XXp1(): sending message #1232 to mailbox 0

XXp1(): after send of message #1232, result = 0

XXp1(): sending message #1233 to mailbox 0

XXp1(): after send of message #1233, result = 0

XXp1(): sending message #1234 to mailbox 0

XXp1(): after send of message #1234, result = 0

XXp1(): sending message #1235 to mailbox 0

XXp1(): after send of message #1235, result = 0

XXp1(): sending message #1236 to mailbox 0

XXp1(): after send of message #1236, result = 0

XXp1(): sending message #1237 to mailbox 0

XXp1(): after send of message #1237, result = 0

XXp1(): sending message #1238 to mailbox 0

XXp1(): after send of message #1238, result = 0

XXp1(): sending message #1239 to mailbox 0

XXp1(): after send of message #1239, result = 0

XXp1(): sending message #1240 to mailbox 0

XXp1(): after send of message #1240, result = 0

XXp1(): sending message #1241 to mailbox 0

XXp1(): after send of message #1241, result = 0

XXp1(): sending message #1242 to mailbox 0

XXp1(): after send of message #1242, result = 0

XXp1(): sending message #1243 to mailbox 0

XXp1(): after send of message #1243, result = 0

XXp1(): sending message #1244 to mailbox 0

XXp1(): after send of message #1244, result = 0

XXp1(): sending message #1245 to mailbox 0

XXp1(): after send of message #1245, result = 0

XXp1(): sending message #1246 to mailbox 0

XXp1(): after send of message #1246, result = 0

XXp1(): sending message #1247 to mailbox 0

XXp1(): after send of message #1247, result = 0

XXp1(): sending message #1248 to mailbox 0

XXp1(): after send of message #1248, result = 0

XXp1(): sending message #1249 to mailbox 0

XXp1(): after send of message #1249, result = 0

start2(): joined with kid 4, status = -3

XXp2(): started

XXp2(): sending message #0 to mailbox 0

XXp2(): after send of message #0, result = 0

XXp2(): sending message #500 to mailbox 0

XXp2(): after send of message #500, result = 0

XXp2(): sending message #1000 to mailbox 0

XXp2(): after send of message #1000, result = 0

XXp2(): sending message #1201 to mailbox 0

XXp2(): after send of message #1201, result = 0

XXp2(): sending message #1202 to mailbox 0

XXp2(): after send of message #1202, result = 0

XXp2(): sending message #1203 to mailbox 0

XXp2(): after send of message #1203, result = 0

XXp2(): sending message #1204 to mailbox 0

XXp2(): after send of message #1204, result = 0

XXp2(): sending message #1205 to mailbox 0

XXp2(): after send of message #1205, result = 0

XXp2(): sending message #1206 to mailbox 0

XXp2(): after send of message #1206, result = 0

XXp2(): sending message #1207 to mailbox 0

XXp2(): after send of message #1207, result = 0

XXp2(): sending message #1208 to mailbox 0

XXp2(): after send of message #1208, result = 0

XXp2(): sending message #1209 to mailbox 0

XXp2(): after send of message #1209, result = 0

XXp2(): sending message #1210 to mailbox 0

XXp2(): after send of message #1210, result = 0

XXp2(): sending message #1211 to mailbox 0

XXp2(): after send of message #1211, result = 0

XXp2(): sending message #1212 to mailbox 0

XXp2(): after send of message #1212, result = 0

XXp2(): sending message #1213 to mailbox 0

XXp2(): after send of message #1213, result = 0

XXp2(): sending message #1214 to mailbox 0

XXp2(): after send of message #1214, result = 0

XXp2(): sending message #1215 to mailbox 0

XXp2(): after send of message #1215, result = 0

XXp2(): sending message #1216 to mailbox 0

XXp2(): after send of message #1216, result = 0

XXp2(): sending message #1217 to mailbox 0

XXp2(): after send of message #1217, result = 0

XXp2(): sending message #1218 to mailbox 0

XXp2(): after send of message #1218, result = 0

XXp2(): sending message #1219 to mailbox 0

XXp2(): after send of message #1219, result = 0

XXp2(): sending message #1220 to mailbox 0

XXp2(): after send of message #1220, result = 0

XXp2(): sending message #1221 to mailbox 0

XXp2(): after send of message #1221, result = 0

XXp2(): sending message #1222 to mailbox 0

XXp2(): after send of message #1222, result = 0

XXp2(): sending message #1223 to mailbox 0

XXp2(): after send of message #1223, result = 0

XXp2(): sending message #1224 to mailbox 0

XXp2(): after send of message #1224, result = 0

XXp2(): sending message #1225 to mailbox 0

XXp2(): after send of message #1225, result = 0

XXp2(): sending message #1226 to mailbox 0

XXp2(): after send of message #1226, result = 0

XXp2(): sending message #1227 to mailbox 0

XXp2(): after send of message #1227, result = 0

XXp2(): sending message #1228 to mailbox 0

XXp2(): after send of message #1228, result = 0

XXp2(): sending message #1229 to mailbox 0

XXp2(): after send of message #1229, result = 0

XXp2(): sending message #1230 to mailbox 0

XXp2(): after send of message #1230, result = 0

XXp2(): sending message #1231 to mailbox 0

XXp2(): after send of message #1231, result = 0

XXp2(): sending message #1232 to mailbox 0

XXp2(): after send of message #1232, result = 0

XXp2(): sending message #1233 to mailbox 0

XXp2(): after send of message #1233, result = 0

XXp2(): sending message #1234 to mailbox 0

XXp2(): after send of message #1234, result = 0

XXp2(): sending message #1235 to mailbox 0

XXp2(): after send of message #1235, result = 0

XXp2(): sending message #1236 to mailbox 0

XXp2(): after send of message #1236, result = 0

XXp2(): sending message #1237 to mailbox 0

XXp2(): after send of message #1237, result = 0

XXp2(): sending message #1238 to mailbox 0

XXp2(): after send of message #1238, result = 0

XXp2(): sending message #1239 to mailbox 0

XXp2(): after send of message #1239, result = 0

start2(): joined with kid 5, status = -3

start2(): receiving message #0 from mailbox 0

start2(): result = 24

start2(): message = 'XXp1(): hello there, #0'

start2(): receiving message #1 from mailbox 0

start2(): result = 24

start2(): message = 'XXp1(): hello there, #1'

start2(): receiving message #2 from mailbox 0

start2(): result = 24

start2(): message = 'XXp1(): hello there, #2'

start2(): receiving message #3 from mailbox 0

start2(): result = 24

start2(): message = 'XXp1(): hello there, #3'

start2(): receiving message #4 from mailbox 0

start2(): result = 24

start2(): message = 'XXp1(): hello there, #4'

start2(): receiving message #5 from mailbox 0

start2(): result = 24

start2(): message = 'XXp1(): hello there, #5'

start2(): receiving message #6 from mailbox 0

start2(): result = 24

start2(): message = 'XXp1(): hello there, #6'

start2(): receiving message #7 from mailbox 0

start2(): result = 24

start2(): message = 'XXp1(): hello there, #7'

start2(): receiving message #8 from mailbox 0

start2(): result = 24

start2(): message = 'XXp1(): hello there, #8'

start2(): receiving message #9 from mailbox 0

start2(): result = 24

start2(): message = 'XXp1(): hello there, #9'

start2(): sending message #0 to mailbox 0

start2(): after send of message #0, result = 0

start2(): sending message #1 to mailbox 0

start2(): after send of message #1, result = 0

start2(): sending message #2 to mailbox 0

start2(): after send of message #2, result = 0

start2(): sending message #3 to mailbox 0

start2(): after send of message #3, result = 0

start2(): sending message #4 to mailbox 0

start2(): after send of message #4, result = 0

start2(): sending message #5 to mailbox 0

start2(): after send of message #5, result = 0

start2(): sending message #6 to mailbox 0

start2(): after send of message #6, result = 0

start2(): sending message #7 to mailbox 0

start2(): after send of message #7, result = 0

start2(): sending message #8 to mailbox 0

start2(): after send of message #8, result = 0

start2(): sending message #9 to mailbox 0

start2(): after send of message #9, result = 0

start2(): sending message #10 to mailbox 0

start2(): after send of message #10, result = 0

start2(): sending message #11 to mailbox 0

start2(): after send of message #11, result = 0

start2(): sending message #12 to mailbox 0

start2(): after send of message #12, result = 0

start2(): sending message #13 to mailbox 0

start2(): after send of message #13, result = 0

start2(): sending message #14 to mailbox 0

start2(): after send of message #14, result = 0

start2(): sending message #15 to mailbox 0

start2(): after send of message #15, result = 0

start2(): sending message #16 to mailbox 0

start2(): after send of message #16, result = 0

start2(): sending message #17 to mailbox 0

start2(): after send of message #17, result = 0

start2(): sending message #18 to mailbox 0

start2(): after send of message #18, result = 0

start2(): sending message #19 to mailbox 0

start2(): after send of message #19, result = 0

start2(): sending message #20 to mailbox 0

start2(): this should return -2

start2(): after send of message #20, result = -2

start2(): sending message #21 to mailbox 0

start2(): this should return -2

start2(): after send of message #21, result = -2

start2(): sending message #22 to mailbox 0

start2(): this should return -2

start2(): after send of message #22, result = -2

start2(): sending message #23 to mailbox 0

start2(): this should return -2

start2(): after send of message #23, result = -2

start2(): sending message #24 to mailbox 0

start2(): this should return -2

start2(): after send of message #24, result = -2

All processes completed.

My output is the exact same as the Phase 2 Output Data I was emailed. For this reason, I believe I have passed this test case.

**Group work:**

I had elected to do all phases after the first phase by myself. As such, I did all the work by myself.