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Project 3

3/5/16

Script started on Thu 03 Mar 2016 02:35:07 PM PST

[uh8425@algebra ~]$ gcc v.c -lpthread -o s

[uh8425@algebra ~]$ ./s 25 1 1

Main thread beginning.

Creating producer thread with id 0.

Creating consumer thread with id 0.

Main thread sleeping for 25 seconds.

Producer thread 0 sleeping for 2 seconds.

Consumer thread 0 sleeping for 2 seconds.

Insert\_item inserted item 78 at position 0

[78][empty][empty][empty][empty]in = 1, out = 4.

Producer thread 0 inserted value 78.

Producer thread 0 sleeping for 2 seconds.

Remove\_item removed item 0 at position 0

[empty][empty][empty][empty][empty]in = 0, out = 5.

Consumer thread 0 removed value 78.

Consumer thread 0 sleeping for 3 seconds.

Insert\_item inserted item 36 at position 0

[36][empty][empty][empty][empty]in = 1, out = 4.

Producer thread 0 inserted value 36.

Producer thread 0 sleeping for 2 seconds.

Remove\_item removed item 78 at position 0

[empty][empty][empty][empty][empty]in = 0, out = 5.

Consumer thread 0 removed value 36.

Consumer thread 0 sleeping for 1 seconds.

Insert\_item inserted item 50 at position 0

[50][empty][empty][empty][empty]in = 1, out = 4.

Producer thread 0 inserted value 50.

Producer thread 0 sleeping for 2 seconds.

Remove\_item removed item 36 at position 0

[empty][empty][empty][empty][empty]in = 0, out = 5.

Consumer thread 0 removed value 50.

Consumer thread 0 sleeping for 3 seconds.

Insert\_item inserted item 28 at position 0

[28][empty][empty][empty][empty]in = 1, out = 4.

Producer thread 0 inserted value 28.

Producer thread 0 sleeping for 3 seconds.

Remove\_item removed item 50 at position 0

[empty][empty][empty][empty][empty]in = 0, out = 5.

Consumer thread 0 removed value 28.

Consumer thread 0 sleeping for 2 seconds.

Insert\_item inserted item 64 at position 0

[64][empty][empty][empty][empty]in = 1, out = 4.

Producer thread 0 inserted value 64.

Producer thread 0 sleeping for 2 seconds.

Remove\_item removed item 28 at position 0

[empty][empty][empty][empty][empty]in = 0, out = 5.

Consumer thread 0 removed value 64.

Consumer thread 0 sleeping for 1 seconds.

Insert\_item inserted item 27 at position 0

[27][empty][empty][empty][empty]in = 1, out = 4.

Producer thread 0 inserted value 27.

Producer thread 0 sleeping for 2 seconds.

Remove\_item removed item 64 at position 0

[empty][empty][empty][empty][empty]in = 0, out = 5.

Consumer thread 0 removed value 27.

Consumer thread 0 sleeping for 2 seconds.

Insert\_item inserted item 12 at position 0

[12][empty][empty][empty][empty]in = 1, out = 4.

Producer thread 0 inserted value 12.

Producer thread 0 sleeping for 3 seconds.

Remove\_item removed item 27 at position 0

[empty][empty][empty][empty][empty]in = 0, out = 5.

Consumer thread 0 removed value 12.

Consumer thread 0 sleeping for 1 seconds.

Insert\_item inserted item 30 at position 0

[30][empty][empty][empty][empty]in = 1, out = 4.

Producer thread 0 inserted value 30.

Producer thread 0 sleeping for 3 seconds.

Remove\_item removed item 12 at position 0

[empty][empty][empty][empty][empty]in = 0, out = 5.

Consumer thread 0 removed value 30.

Consumer thread 0 sleeping for 3 seconds.

Insert\_item inserted item 63 at position 0

[63][empty][empty][empty][empty]in = 1, out = 4.

Producer thread 0 inserted value 63.

Producer thread 0 sleeping for 2 seconds.

Remove\_item removed item 30 at position 0

[empty][empty][empty][empty][empty]in = 0, out = 5.

Consumer thread 0 removed value 63.

Consumer thread 0 sleeping for 2 seconds.

Insert\_item inserted item 36 at position 0

[36][empty][empty][empty][empty]in = 1, out = 4.

Producer thread 0 inserted value 36.

Producer thread 0 sleeping for 3 seconds.

Remove\_item removed item 63 at position 0

[empty][empty][empty][empty][empty]in = 0, out = 5.

Consumer thread 0 removed value 36.

Consumer thread 0 sleeping for 1 seconds.

Main thread exiting.

[uh8425@algebra ~]$ ./s 25 5 2

Main thread beginning.

Creating producer thread with id 0.

Creating producer thread with id 1.

Creating producer thread with id 2.

Creating producer thread with id 3.

Creating producer thread with id 4.

Creating consumer thread with id 0.

Producer thread 0 sleeping for 2 seconds.

Producer thread 1 sleeping for 2 seconds.

Producer thread 2 sleeping for 1 seconds.

Producer thread 3 sleeping for 2 seconds.

Producer thread 4 sleeping for 3 seconds.

Consumer thread 0 sleeping for 2 seconds.

Creating consumer thread with id 1.

Main thread sleeping for 25 seconds.

Consumer thread 1 sleeping for 2 seconds.

Insert\_item inserted item 93 at position 0

[93][empty][empty][empty][empty]in = 1, out = 4.

Producer thread 2 inserted value 93.

Producer thread 2 sleeping for 1 seconds.

Insert\_item inserted item 22 at position 1

[93][22][empty][empty][empty]in = 2, out = 3.

Producer thread 0 inserted value 22.

Producer thread 0 sleeping for 3 seconds.

Insert\_item inserted item 28 at position 2

[93][22][28][empty][empty]in = 3, out = 2.

Producer thread 1 inserted value 28.

Producer thread 1 sleeping for 3 seconds.

Insert\_item inserted item 60 at position 3

[93][22][28][60][empty]in = 4, out = 1.

Producer thread 3 inserted value 60.

Producer thread 3 sleeping for 3 seconds.

Remove\_item removed item 0 at position 0

[empty][22][28][60][empty]in = 3, out = 2.

Consumer thread 0 removed value 93.

Consumer thread 0 sleeping for 2 seconds.

Insert\_item inserted item 41 at position 4

[empty][22][28][60][41]in = 4, out = 1.

Producer thread 2 inserted value 41.

Producer thread 2 sleeping for 1 seconds.

Remove\_item removed item 0 at position 1

[empty][empty][28][60][41]in = 3, out = 2.

Consumer thread 1 removed value 22.

Consumer thread 1 sleeping for 2 seconds.

Insert\_item inserted item 37 at position 0

[37][empty][28][60][41]in = 4, out = 1.

Producer thread 4 inserted value 37.

Producer thread 4 sleeping for 3 seconds.

Insert\_item inserted item 69 at position 1

[37][69][28][60][41]in = 5, out = 0.

Producer thread 2 inserted value 69.

Producer thread 2 sleeping for 1 seconds.

Remove\_item removed item 93 at position 2

[37][69][empty][60][41]in = 4, out = 1.

Consumer thread 0 removed value 28.

Consumer thread 0 sleeping for 1 seconds.

Insert\_item inserted item 83 at position 2

[37][69][83][60][41]in = 5, out = 0.

Producer thread 2 inserted value 83.

Producer thread 2 sleeping for 3 seconds.

Remove\_item removed item 22 at position 3

[37][69][83][empty][41]in = 4, out = 1.

Consumer thread 1 removed value 60.

Consumer thread 1 sleeping for 3 seconds.

Insert\_item inserted item 24 at position 3

[37][69][83][24][41]in = 5, out = 0.

Producer thread 0 inserted value 24.

Producer thread 0 sleeping for 2 seconds.

Remove\_item removed item 28 at position 4

[37][69][83][24][empty]in = 4, out = 1.

Insert\_item inserted item 36 at position 4

[37][69][83][24][36]in = 5, out = 0.

Producer thread 1 inserted value 36.

Producer thread 1 sleeping for 1 seconds.

Consumer thread 0 removed value 41.

Consumer thread 0 sleeping for 1 seconds.

Remove\_item removed item 41 at position 0

[empty][69][83][24][36]in = 4, out = 1.

Consumer thread 0 removed value 37.

Consumer thread 0 sleeping for 1 seconds.

Insert\_item inserted item 30 at position 0

[30][69][83][24][36]in = 5, out = 0.

Producer thread 3 inserted value 30.

Producer thread 3 sleeping for 2 seconds.

Remove\_item removed item 37 at position 1

[30][empty][83][24][36]in = 4, out = 1.

Consumer thread 0 removed value 69.

Consumer thread 0 sleeping for 2 seconds.

Insert\_item inserted item 43 at position 1

[30][43][83][24][36]in = 5, out = 0.

Producer thread 2 inserted value 43.

Producer thread 2 sleeping for 1 seconds.

Remove\_item removed item 60 at position 2

[30][43][empty][24][36]in = 4, out = 1.

Insert\_item inserted item 70 at position 2

[30][43][70][24][36]in = 5, out = 0.

Producer thread 1 inserted value 70.

Producer thread 1 sleeping for 1 seconds.

Consumer thread 1 removed value 83.

Consumer thread 1 sleeping for 1 seconds.

Remove\_item removed item 83 at position 3

[30][43][70][empty][36]in = 4, out = 1.

Insert\_item inserted item 57 at position 3

[30][43][70][57][36]in = 5, out = 0.

Producer thread 0 inserted value 57.

Producer thread 0 sleeping for 3 seconds.

Consumer thread 1 removed value 24.

Consumer thread 1 sleeping for 3 seconds.

Remove\_item removed item 69 at position 4

[30][43][70][57][empty]in = 4, out = 1.

Consumer thread 0 removed value 36.

Consumer thread 0 sleeping for 3 seconds.

Insert\_item inserted item 59 at position 4

[30][43][70][57][59]in = 5, out = 0.

Producer thread 4 inserted value 59.

Producer thread 4 sleeping for 1 seconds.

Remove\_item removed item 24 at position 0

[empty][43][70][57][59]in = 4, out = 1.

Consumer thread 1 removed value 30.

Consumer thread 1 sleeping for 2 seconds.

Insert\_item inserted item 20 at position 0

[20][43][70][57][59]in = 5, out = 0.

Producer thread 3 inserted value 20.

Producer thread 3 sleeping for 3 seconds.

Remove\_item removed item 36 at position 1

[20][empty][70][57][59]in = 4, out = 1.

Consumer thread 0 removed value 43.

Consumer thread 0 sleeping for 3 seconds.

Insert\_item inserted item 85 at position 1

[20][85][70][57][59]in = 5, out = 0.

Producer thread 2 inserted value 85.

Producer thread 2 sleeping for 1 seconds.

Remove\_item removed item 30 at position 2

[20][85][empty][57][59]in = 4, out = 1.

Insert\_item inserted item 38 at position 2

[20][85][38][57][59]in = 5, out = 0.

Producer thread 1 inserted value 38.

Producer thread 1 sleeping for 3 seconds.

Consumer thread 1 removed value 70.

Consumer thread 1 sleeping for 2 seconds.

Remove\_item removed item 43 at position 3

[20][85][38][empty][59]in = 4, out = 1.

Consumer thread 0 removed value 57.

Consumer thread 0 sleeping for 1 seconds.

Insert\_item inserted item 14 at position 3

[20][85][38][14][59]in = 5, out = 0.

Producer thread 4 inserted value 14.

Producer thread 4 sleeping for 1 seconds.

Remove\_item removed item 70 at position 4

[20][85][38][14][empty]in = 4, out = 1.

Insert\_item inserted item 27 at position 4

[20][85][38][14][27]in = 5, out = 0.

Producer thread 0 inserted value 27.

Producer thread 0 sleeping for 3 seconds.

Consumer thread 1 removed value 59.

Consumer thread 1 sleeping for 1 seconds.

Remove\_item removed item 57 at position 0

[empty][85][38][14][27]in = 4, out = 1.

Consumer thread 0 removed value 20.

Consumer thread 0 sleeping for 3 seconds.

Insert\_item inserted item 6 at position 0

[6][85][38][14][27]in = 5, out = 0.

Producer thread 4 inserted value 6.

Producer thread 4 sleeping for 2 seconds.

Remove\_item removed item 59 at position 1

[6][empty][38][14][27]in = 4, out = 1.

Consumer thread 1 removed value 85.

Consumer thread 1 sleeping for 2 seconds.

Insert\_item inserted item 82 at position 1

[6][82][38][14][27]in = 5, out = 0.

Producer thread 3 inserted value 82.

Producer thread 3 sleeping for 3 seconds.

Remove\_item removed item 85 at position 2

[6][82][empty][14][27]in = 4, out = 1.

Consumer thread 1 removed value 38.

Consumer thread 1 sleeping for 1 seconds.

Insert\_item inserted item 63 at position 2

[6][82][63][14][27]in = 5, out = 0.

Producer thread 2 inserted value 63.

Producer thread 2 sleeping for 1 seconds.

Remove\_item removed item 20 at position 3

[6][82][63][empty][27]in = 4, out = 1.

Insert\_item inserted item 30 at position 3

[6][82][63][30][27]in = 5, out = 0.

Producer thread 1 inserted value 30.

Producer thread 1 sleeping for 3 seconds.

Consumer thread 0 removed value 14.

Consumer thread 0 sleeping for 1 seconds.

Remove\_item removed item 38 at position 4

[6][82][63][30][empty]in = 4, out = 1.

Consumer thread 1 removed value 27.

Consumer thread 1 sleeping for 3 seconds.

Insert\_item inserted item 25 at position 4

[6][82][63][30][25]in = 5, out = 0.

Producer thread 4 inserted value 25.

Producer thread 4 sleeping for 1 seconds.

Remove\_item removed item 14 at position 0

[empty][82][63][30][25]in = 4, out = 1.

Insert\_item inserted item 96 at position 0

[96][82][63][30][25]in = 5, out = 0.

Producer thread 0 inserted value 96.

Producer thread 0 sleeping for 2 seconds.

Consumer thread 0 removed value 6.

Consumer thread 0 sleeping for 1 seconds.

Remove\_item removed item 6 at position 1

[96][empty][63][30][25]in = 4, out = 1.

Consumer thread 0 removed value 82.

Consumer thread 0 sleeping for 3 seconds.

Insert\_item inserted item 35 at position 1

[96][35][63][30][25]in = 5, out = 0.

Producer thread 3 inserted value 35.

Producer thread 3 sleeping for 3 seconds.

Remove\_item removed item 27 at position 2

[96][35][empty][30][25]in = 4, out = 1.

Consumer thread 1 removed value 63.

Consumer thread 1 sleeping for 3 seconds.

Insert\_item inserted item 51 at position 2

[96][35][51][30][25]in = 5, out = 0.

Producer thread 2 inserted value 51.

Producer thread 2 sleeping for 3 seconds.

Remove\_item removed item 82 at position 3

[96][35][51][empty][25]in = 4, out = 1.

Consumer thread 0 removed value 30.

Consumer thread 0 sleeping for 2 seconds.

Insert\_item inserted item 33 at position 3

[96][35][51][33][25]in = 5, out = 0.

Producer thread 3 inserted value 33.

Producer thread 3 sleeping for 1 seconds.

Main thread exiting.

[uh8425@algebra ~]$ exit

exit

Script done on Thu 03 Mar 2016 02:42:11 PM PST