```
Script started on 2019-01-21 12:20:56-0800
sastrand@babbage:~/Code/515_parallel_programming/a1_prod_cons$ java ProdCons2 9;
Producer starting:
Producer added value
                         1 (qsize =
                                      1) ¿
                         2 (qsize =
Producer added value
                                      ے (2
Producer added value
                         3 (qsize =
                                     3) ¿
                                      ے (4
Producer added value 4 (qsize =
Producer added value 5 (gsize =
Producer added value 6 (qsize =
                                      ے (6
Producer added value 7 (qsize =
                                      ز (7
Producer added value 8 (qsize =
                                      5(8
                        9 (qsize =
Producer added value
                                      9) ¿
Producer added value 10 (qsize = 10);
Producer added value 11 (qsize = 11);
Producer added value 12 (qsize = 12);
Producer added value 13 (qsize = 13);
Producer added value 14 (gsize = 14);
Producer added value 15 (qsize = 15);
Producer added value 16 (qsize = 16);
Producer added value 17 (qsize = 17);
Producer added value 18 (qsize = 18);
Producer added value 19 (qsize = 19);
Producer added value 20 (qsize = 20);
Consumer[5] starting;
Consumer[3] starting:
Consumer[2] starting:
Consumer[8] starting;
Consumer[4] starting;
Consumer[7] starting;
Consumer[1] starting;
Consumer[6] starting;
Consumer[0] starting;
Consumer[5] removed value
                              1 (qsize = 19);
Consumer[5] removed value 2 (qsize = 18);
Consumer[5] removed value 3 (qsize = 17);
Consumer[5] removed value 4 (qsize = 16);
Consumer[5] removed value 5 (qsize = 15);
Consumer[5] removed value 6 (qsize = 14);
Consumer[5] removed value 7 (qsize = 13);
Consumer[5] removed value 8 (qsize = 12);
Consumer[5] removed value
                              9 (qsize = 11);
Consumer[5] removed value 10 (qsize = 10);
Consumer[5] removed value 11 (qsize = 9);
Consumer[5] removed value 12 (qsize = 8);
Consumer[5] removed value 13 (qsize = 7);
Consumer[5] removed value 14 (qsize = 6);
Consumer[5] removed value 15 (qsize = 5);
Consumer[5] removed value 16 (qsize = 4);
Consumer[5] removed value 17 (qsize = 3);
Consumer[5] removed value 18 (qsize = 2);
Consumer[5] removed value 19 (qsize = 1);
Consumer[5] removed value 20 (qsize = 0);
Producer added value 21 (gsize = 1);
Producer added value 22 (qsize = 2);
Producer added value 23 (qsize =
Producer added value 24 (qsize =
Producer added value 25 (qsize =
                                     ز (5
Producer added value 26 (qsize =
                                      5 (6
Producer added value 27 (qsize = Producer added value 28 (qsize =
                                      ز (7
Producer added value 29 (qsize =
                                      9) ¿
Producer added value 30 (qsize = 10);
Producer added value 31 (gsize = 11);
Producer added value 32 (qsize = 12);
Producer added value 33 (qsize = 13);
Producer added value 34 (qsize = 14);
Producer added value 35 (qsize = 15);
Producer added value 36 (qsize = 16);
Producer added value 37 (qsize = 17);
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Producer added value 38 (qsize = 18);
Producer added value 39 (qsize = 19);
Producer added value 40 (qsize = 20);
Consumer[5] removed value 21 (qsize = 19);
Consumer[5] removed value 22 (qsize = 18);
Consumer[5] removed value 23 (qsize = 17);
Consumer[5] removed value 24 (qsize = 16);
Consumer[5] removed value 25 (qsize = 15);
Consumer[5] removed value 26 (qsize = 14);
Consumer[5] removed value 27 (qsize = 13);
Consumer[5] removed value 28 (qsize = 12);
Consumer[5] removed value 29 (qsize = 11);
Consumer[5] removed value 30 (qsize = 10);
Consumer[5] removed value 31 (qsize = 9);
Consumer[5] removed value 32 (qsize = 8);
Consumer[5] removed value 33 (qsize = 7);
Consumer[5] removed value 34 (qsize = 6);
Consumer[5] removed value 35 (qsize = 5);
Consumer[5] removed value 36 \text{ (qsize = 4)};
Consumer[5] removed value 37 (qsize = 3);
Consumer[5] removed value 38 (qsize = 2);
Consumer[5] removed value 39 (qsize = 1);
Consumer[5] removed value 40 (qsize = 0);
Producer added value 41 (qsize = 1);
Producer added value 42 (qsize = 2);
Producer added value 43 (qsize = 3);
Producer added value 44 (qsize = 4);
Producer added value 45 \text{ (qsize = 5)};
Producer added value 45 (qsize = 6);
Producer added value 47 (qsize = 7);
Producer added value 48 (qsize = 8);
Producer added value 49 (qsize = 9);
Producer added value 50 (qsize = 10);
Producer added value 51 (qsize = 11);
Producer added value 52 (gsize = 12);
Producer added value 53 (gsize = 13);
Producer added value 54 (qsize = 14);
Producer added value 54 (qsize = 14);
Producer added value 55 (qsize = 15);
Producer added value 56 (qsize = 16);
Producer added value 57 (qsize = 17);
Producer added value 58 (qsize = 18);
Producer added value 59 (qsize = 19);
Producer added value 60 (qsize = 20);
Consumer[5] removed value 41 (qsize = 19);
Consumer[5] removed value 42 (qsize = 18);
Consumer[5] removed value 43 (qsize = 17);
Consumer[5] removed value 44 (qsize = 16);
Consumer[5] removed value 45 (qsize = 15);

Consumer[5] removed value 46 (qsize = 14);

Consumer[5] removed value 47 (qsize = 14);

Consumer[5] removed value 48 (qsize = 12);

Consumer[5] removed value 49 (qsize = 11);
Consumer[5] removed value 50 (qsize = 10);
Consumer[5] removed value 51 (qsize = 9);
Consumer[5] removed value 52 (qsize = 8);
Consumer[5] removed value 53 (qsize = 7) \geq
Consumer[5] removed value 54 (qsize = 6);
Consumer[5] removed value 55 (qsize = 5);
Consumer[5] removed value 56 (qsize = 4);
Consumer[5] removed value 57 (qsize = 3);
Consumer[5] removed value 58 (qsize = 2);
Consumer[5] removed value 59 (qsize = 1);
Consumer[5] removed value 60 (qsize = 0);
Producer added value 61 (qsize = 1);
Producer added value 62 (qsize = 2);
Producer added value 63 (qsize = 3);
Producer added value 64 (qsize = 4);
Producer added value 65 (qsize = 5);
Producer added value 66 (qsize = 6);
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Producer added value 67 (qsize = 7);
Producer added value 68 (qsize = 8);
Producer added value 69 (qsize = 9);
Producer added value 70 (qsize = 10);
Producer added value 71 (qsize = 11);
Producer added value 72 (qsize = 12);
Producer added value 73 (qsize = 13);
Producer added value 74 (gsize = 14);
Producer added value 75 (qsize = 15);
Producer added value 76 (qsize = 16);
Producer added value 77 (qsize = 17);
Producer added value 78 (qsize = 18);
Producer added value 79 (qsize = 19);
Producer added value 80 (qsize = 20);
Consumer[5] removed value 61 (qsize = 19);
Consumer[5] removed value 62 (qsize = 18);
Consumer[5] removed value 63 (qsize = 17);
Consumer[5] removed value 64 (qsize = 16);
Consumer[5] removed value 65 (qsize = 15);
Consumer[5] removed value 65 (qsize = 14);

Consumer[5] removed value 67 (qsize = 14);

Consumer[5] removed value 68 (qsize = 12);

Consumer[5] removed value 69 (qsize = 11);

Consumer[5] removed value 70 (qsize = 10);
Consumer[5] removed value 71 (qsize = 9);
Consumer[5] removed value 72 (qsize = 8);
Consumer[5] removed value 73 (qsize = 7);
Consumer[5] removed value 74 \text{ (qsize = 6)} ¿
Consumer[5] removed value 75 (qsize = 5);
Consumer[5] removed value 76 (qsize = 4);
Consumer[5] removed value 77 (qsize = 3);
Consumer[5] removed value 78 (qsize = 2);
Consumer[5] removed value 79 (qsize = 1);
Consumer[5] removed value 80 (qsize = 0);
Producer added value 81 (gsize = 1);
Producer added value 82 (gsize = 2);
Producer added value 83 (qsize = 3);
Producer added value 84 (qsize = 4);
Producer added value 85 (qsize = 5);
Producer added value 86 (qsize = 6);
Producer added value 87 (qsize = 7);
Producer added value 88 (qsize = 8);
Producer added value 89 (qsize = 9);
Producer added value 90 (qsize = 10);
Producer added value 91 (gsize = 11);
Producer added value 92 (qsize = 12);
Producer added value 93 (qsize = 13);
Producer added value 94 (qsize = 14);
Producer added value 95 (qsize = 15);
Producer added value 96 (qsize = 16);
Producer added value 97 (qsize = 17);
Producer added value 98 (qsize = 18);
Producer added value 99 (qsize = 19);
Producer added value 100 (qsize = 20);
Producer done producing. Adding flag values to buffer. ¿
Consumer[5] removed value 81 (qsize = 19);
Consumer[5] removed value 82 (qsize = 18);

Consumer[5] removed value 83 (qsize = 17);

Consumer[5] removed value 84 (qsize = 16);

Consumer[5] removed value 85 (qsize = 15);

Consumer[5] removed value 86 (qsize = 14);
Consumer[5] removed value 87 (qsize = 13);
Consumer[5] removed value 88 (qsize = 12);
Consumer[5] removed value 89 (qsize = 11);
Consumer[0] removed value 90 (qsize = 19);
Consumer[0] removed value 91 (qsize = 18);
Consumer[0] removed value 92 (qsize = 17);
Consumer[0] removed value 93 (qsize = 16);
Consumer[0] removed value 94 (qsize = 15);
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Consumer[0] removed value 95 (qsize = 14);
Consumer[0] removed value 96 (qsize = 13);
Consumer[0] removed value 97 (qsize = 12);
Consumer[0] removed value 98 (qsize = 11);
Consumer[0] removed value 99 (qsize = 10);
Consumer[0] removed value 100 (qsize = 9);
---< Consumer[0] ending. >---¿
---< Consumer[6] ending. >----
---< Consumer[1] ending. >---¿
 -- Consumer[0] joined. -- ¿
-- Consumer[1] joined. -- ¿
---< Consumer[7] ending. >---¿
---< Consumer[4] ending. >---:
---< Consumer[8] ending. >---¿
---< Consumer[2] ending. >---;
 -- Consumer[2] joined. -- ¿
---< Consumer[3] ending. >---¿
 -- Consumer[3] joined. -- ¿
 -- Consumer[4] joined. -- ¿
---< Consumer[5] ending. >---¿
 -- Consumer[5] joined. -- :
-- Consumer[6] joined. -- :
-- Consumer[7] joined. -- :
-- Consumer[8] joined. -- :
C[0]:11, C[1]:0, C[2]:0, C[3]:0, C[4]:0, C[5]:89, C[6]:0, C[7]:0, C[8]:0
Total items across threads: 100;
Main: all done! ¿
sastrand@babbage:~/Code/515_parallel_programming/a1_prod_cons$ exit;
Script done on 2019-01-21 12:21:03-0800
```