

m = 1
prolog
k_begin = 1
k_end_main_loop = 6
k_end = 9
overlap 1 2
overlap 2 3
overlap 3 4
overlap 4 5
overlap 1 3
overlap 2 4
overlap 3 5
overlap 1 4
overlap 2 5
overlap 1 5
main loop

receive 6
overlap 5 6
overlap 4 6
overlap 3 6
overlap 2 6
epilog

receive 7
overlap 5 7
overlap 4 7
overlap 3 7

receive 8
overlap 5 8
overlap 4 8

receive 9
overlap 5 9

m = 2
prolog
k_begin = 6
k_end_main_loop = 11
k_end = 14
overlap 6 7
overlap 7 8
overlap 8 9
overlap 9 10
overlap 6 8
overlap 7 9
overlap 8 10
overlap 6 9
overlap 7 10
overlap 6 10
main loop
send 6

receive 11
overlap 10 11
overlap 9 11
overlap 8 11
overlap 7 11
epilog
send 7

receive 12
overlap 10 12
overlap 9 12
overlap 8 12
send 8

receive 13
overlap 10 13
overlap 9 13
send 9

receive 14
overlap 10 14

m = 3
prolog
k_begin = 11
k_end_main_loop = 15
k_end = 15
overlap 11 12
overlap 12 13
overlap 13 14
overlap 14 15
overlap 11 13
overlap 12 14
overlap 13 15
overlap 11 14
overlap 12 15
overlap 11 15
main loop
epilog
send 11
send 12
send 13
send 14