```
Process 1:
                                     Process 2:
int tmp0, tmp1;
                                     int tmp0, tmp1;
int tmp2, tmp 3;
                                     int tmp2, tmp 3;
for(int i=0; i<100; i++)
                                     for(int j=0; j<100; j++)
 push(Q1, tmp0);
                                      push(Q2, tmp2);
 push(Q1, tmp1);
                                      push(Q2, tmp3);
 pop(Q2, tmp2);
                                      pop(Q1, tmp0);
 pop(Q2, tmp3);
                                      pop(Q1, tmp1);
Given Q1 and Q2 both have only ONE buffer slot
     process 1 cannot push tmp1 until tmp0 is popped by process 2
     process 2 cannot pop tmp0 until tmp3 is pushed
     process 2 cannot push tmp3 until tmp2 is popped by process 1, which
     happens after tmp1 is pushed – we have a circular dependency
If Q1 and Q2 has infinite size, no circular dependency and no artificial
deadlock occurs
```