```
insn_T insn = cmd.pop()
bool wait_on_producer = insn.pop_prev
bool wait_on_consumer = insn.pop_next
bool notify_producer = insn.push_prev
bool notify_consumer = insn.push_next
if wait_on_producer:
    while producer_raw_queue.empty() skip
    producer_raw_queue.pop()
if wait_on_consumer:
    while consumer_war_queue.empty() skip
    consumer_war_queue.pop()

# Do task

if notify_producer:
    producer_war_queue.push(1)
if notify_consumer:
    consumer_raw_queue.push(1)
```