```
Inv == /\ TypeOK
        /\ \A p \in Procs :
              /\ (pc[p] \in {"wait", "cs", "exit"}) <=> (num[p] > 0)
              /\ \A q \in (Procs \ {p}) :
                    \/ (pc[p] = "wait") /\ (q \notin unchecked[p])
                    \/ pc[p] = "cs"
                    => Before(p, q)
```