Name: Uday Saha ID: 23341134

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 $P0 \rightarrow 0 \mid 0 \mid 0 \mid 0 \leq 1520 \rightarrow Execute P0$ $P1 \rightarrow 0 \mid 421 \mid 1630 \rightarrow Dont execute$ $P2 \rightarrow 1001 \mid 1630 \rightarrow Dont execute$ $P3 \rightarrow 0020 \leq 1630 \rightarrow Execute P3$ $P4 \rightarrow 0642 \leq 11262 \rightarrow Execute P4$ $P1 \rightarrow 0421 \leq 11262 \rightarrow Execute P4$ $P1 \rightarrow 0421 \leq 11276 \rightarrow Execute P1$ $P2 \rightarrow 1001 \leq 11276 \rightarrow Execute P2$

Therefore, it is in 9 safe state. The scafe sequence: < Po, P3, P4, P1, P2>