SOEN 331 Assignment 3
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monitoring specification

Q = {monidle, regulate_environment, lockdown}

q_0 = monidle

Σ_1 = {no_contagion, contagion_alert, after_100_ms}

Σ_2 = {broadcast FACILITY_CRIT_MESG, inlockdown = true, inlockdown = false}

Λ = {

$\rightarrow$ *monidle*

monidle $\xrightarrow{\text{no\_contagion}}$ *regulate_environment*

regulate_environment $\xrightarrow{\text{after\_100\_ms}}$ *monidle*

monidle $\xrightarrow{\substack{\text{contagion\_alert/} \\ \text{broadcast FACILITY\_CRIT\_MESG} \\ \text{inlockdown = true}}}$ *lockdown*

lockdown $\xrightarrow{\substack{\text{purge\_succ/} \\ \text{inlockdown = false}}}$ *monidle*

}

V = inlockdown {true, false}