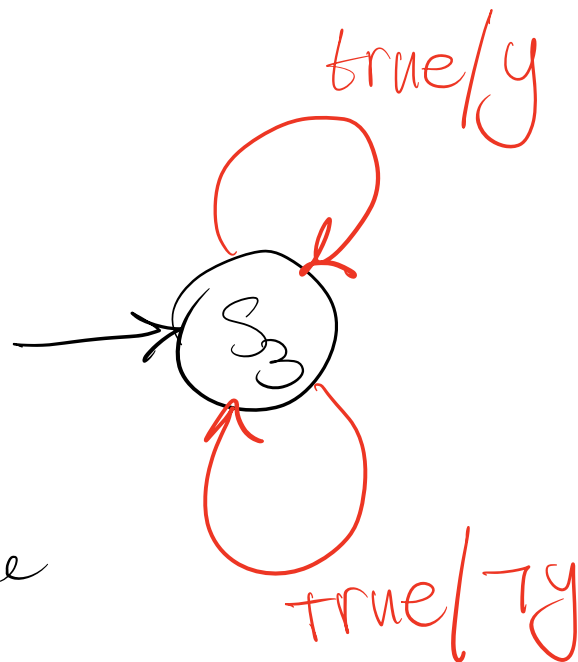# Question 4

input: none

output: y

true/y

true/¬y

S_3

in each
state we have
two fixed points
so the feedback interconnection
is ill-formed $\Rightarrow$ switching
non-deterministically

States $= \{ S_3 \}$

Inputs $= \phi$ <u>empty set</u>

Outputs $= (\{y\} \longrightarrow \{present, absent\})$

Initial state $= \{ S_3 \}$

update $(s, i) = \{ (S_3, present), (S_3, absent) \}$