Secret door logic (boolean secretDoorUnlocked)

General description

The secret door logic is triggered when `<boolean> secretDoorUnlocked` is true and will replace the map with an empty map containing a dutch flag. It will also replace the green player symbol with a blue one.

The `<boolean> secretDoorUnlocked` is true if the player supplies the following input in order:

1. `y` (caseless check)
2. Nothing OR anything other than `exit` (caseless check)
3. `unlock` (caseless check)
4. Nothing OR anything other than `exit` (caseless check)
5. Mandatory `a`, `c` AND `m` plus optional `y` AND `unlock` in any order (caseless check, repetition is possible)
6. Nothing OR anything other than `exit` (caseless check)
7. `open` (caseless check)

After point `7.`, the `<boolean> secretDoorUnlocked` is true and the secret door logic triggers.

Automaton

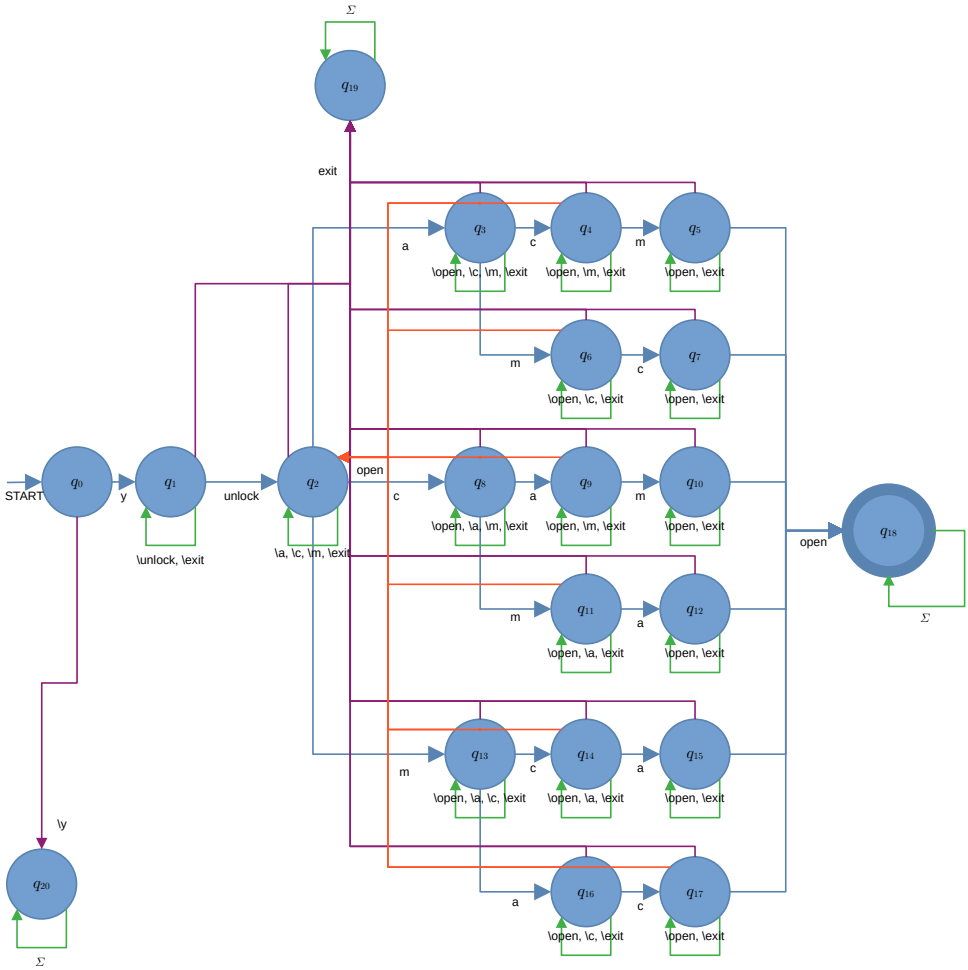
$$D=(Q, \Sigma, \delta, q_0, F)$$

$a=w, up, s, down, a, left, d, right$

$\Sigma=\{y, unlock, a, c, m, open, exit\}$ (caseless check)
δ: *Transition Function*

$L(D)$={y, unlock, {mandatory a, c, m and optional y, unlock in any order; repetition is possible}, open}
$Q=\{q_0, q_1, q_2, q_3, q_4, q_5, q_6, q_7, q_8, q_9, q_{10}, q_{11}, q_{12}, q_{13}, q_{14}, q_{15}, q_{16}, q_{17}, q_{18}, q_{19}, q_{20}\}$

$F=\{q_{18}\}$



Table

State	y	unlock	a	c	m	open	exit
$\rightarrow q_0$	q_1	q_{20}	q_{20}	q_{20}	q_{20}	q_{20}	q_{20}
q_1	q_1	q_2	q_1	q_1	q_1	q_1	q_{19}

State	y	unlock	a	c	m	open	exit
q_2	q_2	q_2	q_3	q_8	q_{13}	q_2	q_{19}
q_3	q_3	q_3	q_3	q_4	q_6	q_2	q_{19}
q_4	q_4	q_4	q_4	q_4	q_5	q_2	q_{19}
q_5	q_5	q_5	q_5	q_5	q_5	q_{18}	q_{19}
q_6	q_6	q_6	q_6	q_7	q_6	q_2	q_{19}
q_7	q_7	q_7	q_7	q_7	q_7	q_{18}	q_{19}
q_8	q_8	q_8	q_9	q_8	q_{11}	q_2	q_{19}
q_9	q_9	q_9	q_9	q_9	q_{10}	q_2	q_{19}
q_{10}	q_{10}	q_{10}	q_{10}	q_{10}	q_{10}	q_{18}	q_{19}
q_{11}	q_{11}	q_{11}	q_{12}	q_{11}	q_{11}	q_2	q_{19}
q_{12}	q_{12}	q_{12}	q_{12}	q_{12}	q_{12}	q_{18}	q_{19}
q_{13}	q_{13}	q_{13}	q_{16}	q_{14}	q_{13}	q_1	q_{19}
q_{14}	q_{14}	q_{14}	q_{15}	q_{14}	q_{14}	q_2	q_{19}
q_{15}	q_{15}	q_{15}	q_{15}	q_{15}	q_{15}	q_{18}	q_{19}
q_{16}	q_{16}	q_{16}	q_{16}	q_{17}	q_{16}	q_2	q_{19}
q_{17}	q_{17}	q_{17}	q_{17}	q_{17}	q_{17}	q_{18}	q_{19}
$^*q_{18}$	q_{18}	q_{18}	q_{18}	q_{18}	q_{18}	q_{18}	q_{18}
q_{19}	q_{19}	q_{19}	q_{19}	q_{19}	q_{19}	q_{19}	q_{19}
q_{20}	q_{20}	q_{20}	q_{20}	q_{20}	q_{20}	q_{20}	q_{20}