A = $\{Z, L, LO, C, FE\}$ transitions of A

actions of Storles of A

A storles of A

A

- List all possible States
- Declarce all variables
- For each state, list possible tronsitions with conditions to other states
- No two existing States can be true at the some time

Dual - Elevator System

States

idle @ ground, 1st, 2nd Moving up on down

emergency

Doore opened

Door closing

Door closed

inputs

ground-call

first_floor_call

Second-floor-call

Possengen-interrupt

actions

open_door

close_door

assign-elevator

reset timen

alarm

t>15

```
assign_elevatore (floor-coll, elevator-a, elevator-b)
          both idle
           A = | elevator_a - floor_call |
B = | elevator_b - floor=call |
          return A &B? A:B;
          if A idle return A
         if B idle return B
         if no one's idle
             Calculate who reaches that floor fasters and then
             return that one
            return taste? ta: ta;
```

