Floor Controller State Machine

Inputs:
1. Door Status
2. Elevator Position
3. Elevator Call Button

Outputs:
1. Elevator Call LED
2. Call Request

Elevator Position == Current Floor
&&
Door Status == Open

WAITING FOR ELEVATOR
(Elevator Call LED = ON
Call Request = 1)

NOT WAITING FOR
ELEVATOR
(Elevator Call LED = OFF
Call Request = 0)

Elevator Call Button == Pushed