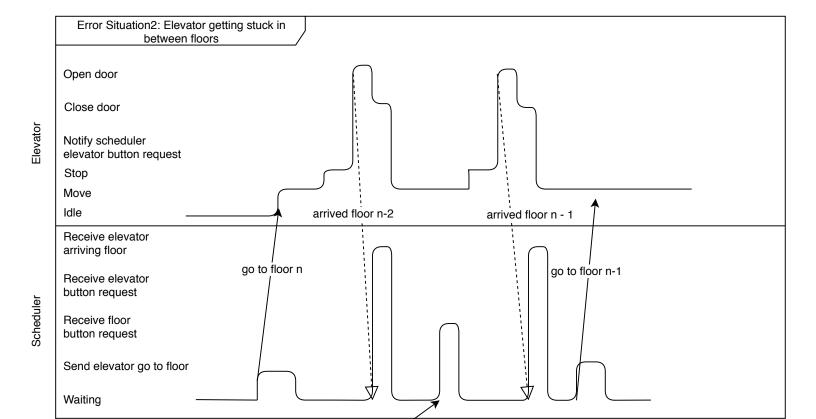


Scheduler sends elevator to go to floor n -> Elevator arrives at floor n -> elevator opens/closes door -> elevator notifies to Scheduler that it has arrived -> Before scheduler receives notify, scheduler sends elevator to go to floor n again because scheduler does not know elevator has arrived at floor n yet ->scheduler finally receives notify from elevator that it has arrived at floorn-> elevator receives go to floor n, and arrives at same floor again andopens/closes door at same floor



Notify scheduler floor request

Waiting

Error Scenario 2: Elevator getting stuck in between floors

Scheduler sends elevator to go to floor n -> elevatorreceives and starts moving -> elevator arrives at floor n-2, it notifies scheduler -> elevator starts moving and is now in somewhere between n-2 andn-1 -> scheduler receives elevators notification that elevator is in n-2 -> scheduler receives new floor request message from n-1 -> elevator arrives at floorn-1, notifies scheduler -> elevator starts moving, and is now somewhere between n-1 and n -> before scheduler receives notify from elevator, scheduler sends elevator to go tofloor n-1 -> scheduler receives that elevator is in floor n-1 -> elevatoris now stuck because elevator is in floor between n-1 and n with direction up, and tries to go to floor n-1.