Requirements

General:

* Two floor office building
* One elevator
* Platform independent
* Object oriented 🡪 Java
* Capacity of floor and elevator: 1 person

Elevator:

* Elevator needs 5 seconds (s) to reach the next floor
* Button with light
* Bell
* Door

Floor:

* Button with light
* Arrival-light

Simulation:

* Clock starting with zero
  + Increments by 1 every second
* Simulator sends time t0 scheduler and elevator every second (s)

Scheduler:

* Two random start cases
  1. Button pressed in floor 1
  2. Button pressed in floor 2
* Time 1 and 2 randomly between 5-20 (time until button pressed)
* Floor empty (person x enter elevator) 🡪 creation of a new Person
  + Scheduler creates next time Tn+1[Tn+5…Tn+20]