作业2类实现

FLOOR:

- Up Button

- Down Button

Both can be set to on/off, and other class can get the button status

ELEVATOR

- Current floor

- Target floor buttons

- Time

- Direction

- Can move:

set cur floor

set direction

set cur time

if cur floor == target floor, cur time adds the cur time with the request time

print string

REQUEST

- Input

- Input validation

- Consists of target floor, direction, time

QUEUE

- Array of requests

- Time of request handled

- Add queue

- Remove queue

DISPATCHER

- First request or not (just for the error handling if the time isn't 0)

- If request is FR, then set the up/down button of that floor

- If request is repeated before elevator come, invalid request

- Move elevator to that requested floor