Elevator Open door

Instruction Manual
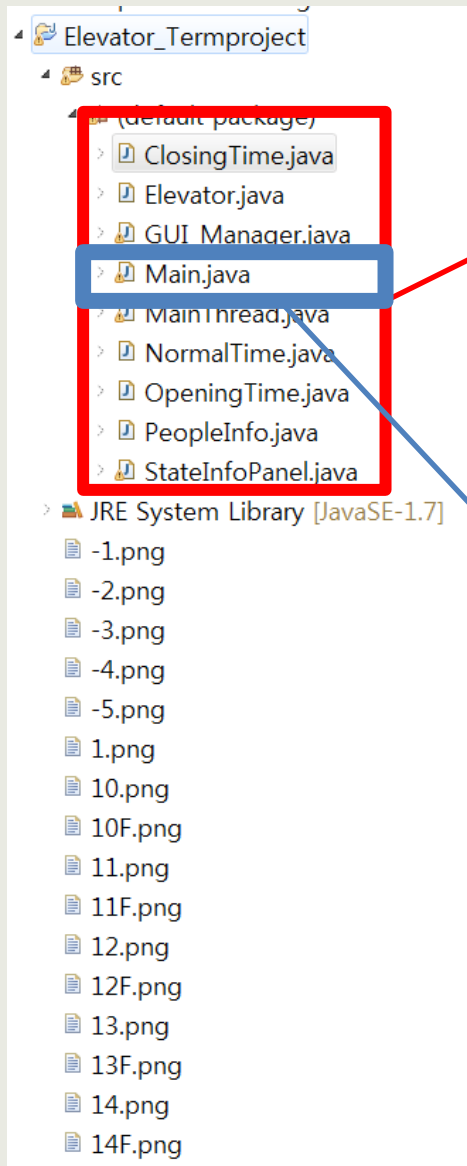
201232342 박재성
201332934 전아름
201533652 안연선
201533656 유지민

01

Operation Process

Open the door!

- Elevator_Termproject
  - src
    - (default package)
      - ClosingTime.java
      - Elevator.java
      - GUI_Manager.java
      - Main.java
      - MainThread.java
      - NormalTime.java
      - OpeningTime.java
      - PeopleInfo.java
      - StateInfoPanel.java
    - JRE System Library [JavaSE-1.7]
  - -1.png
  - -2.png
  - -3.png
  - -4.png
  - -5.png
  - 1.png
  - 10.png
  - 10F.png
  - 11.png
  - 11F.png
  - 12.png
  - 12F.png
  - 13.png
  - 13F.png
  - 14.png
  - 14F.png

First, open the 9 classes through the eclipse.

Execute the program in the Main.java.
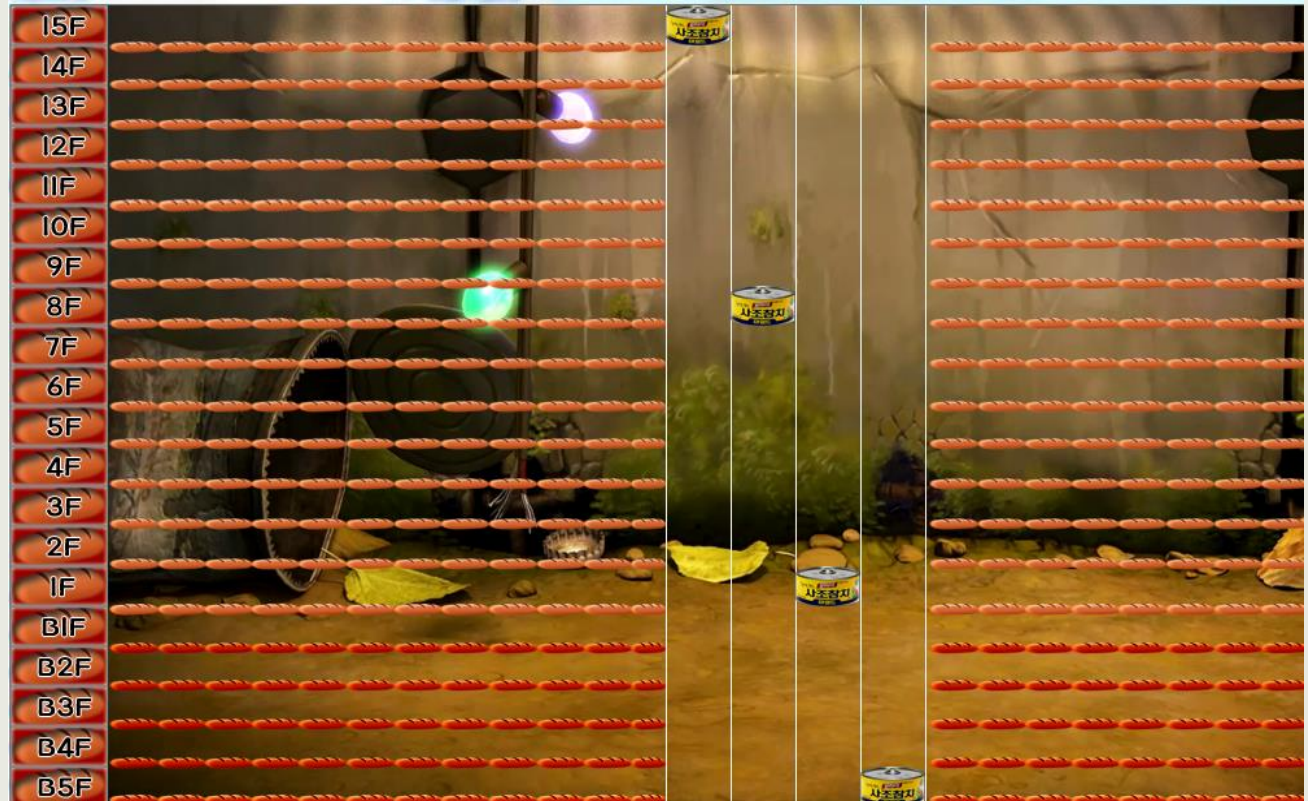
Open the door!

Background

State_Information

<Open the door run screen>
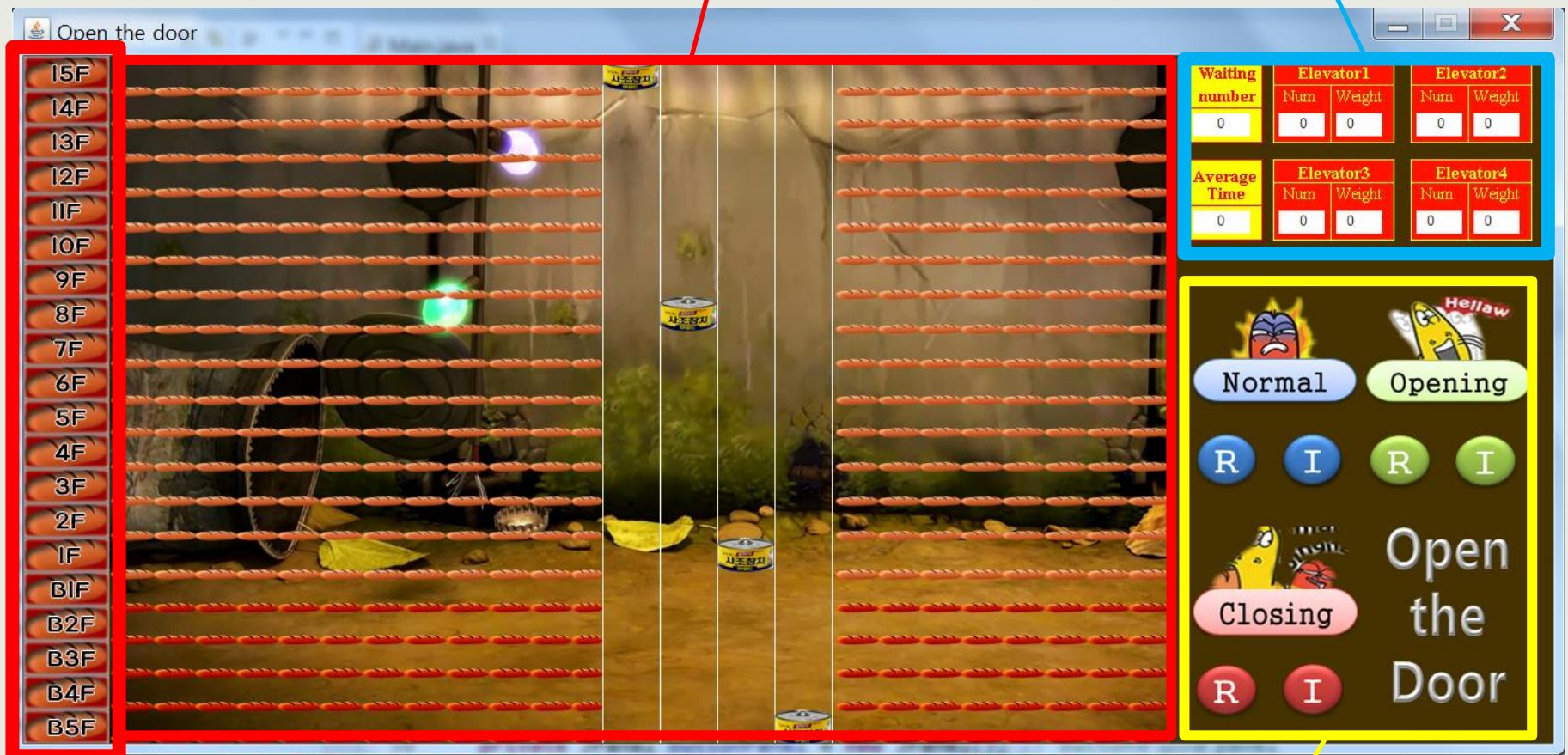
Remote reservation system

Create Lava button

Click to change the status (Normal time – afternoon)

Elevators are located on the 15th, 8th, 1st and B5th floor

Open the door!

Click to change the status (Opening time – morning)
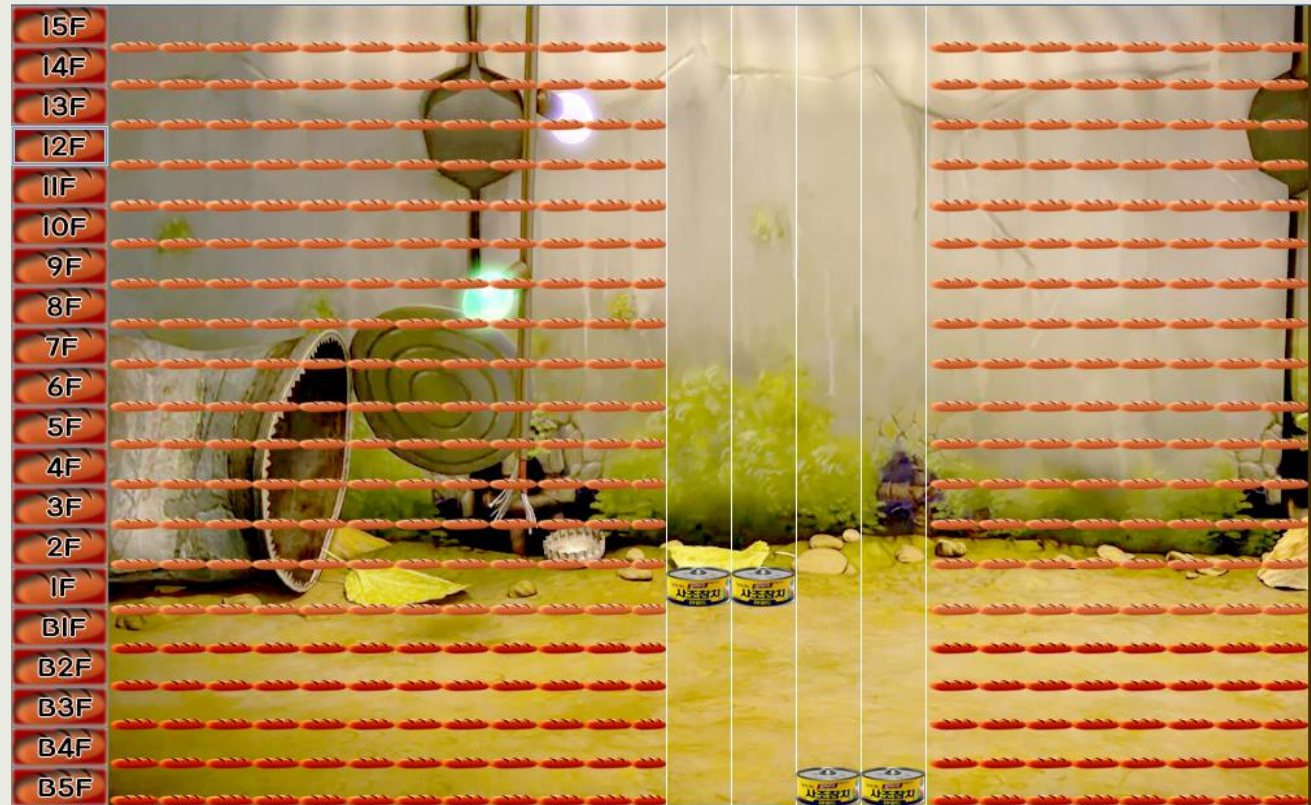
Elevators are located on the 1st and B5th floor
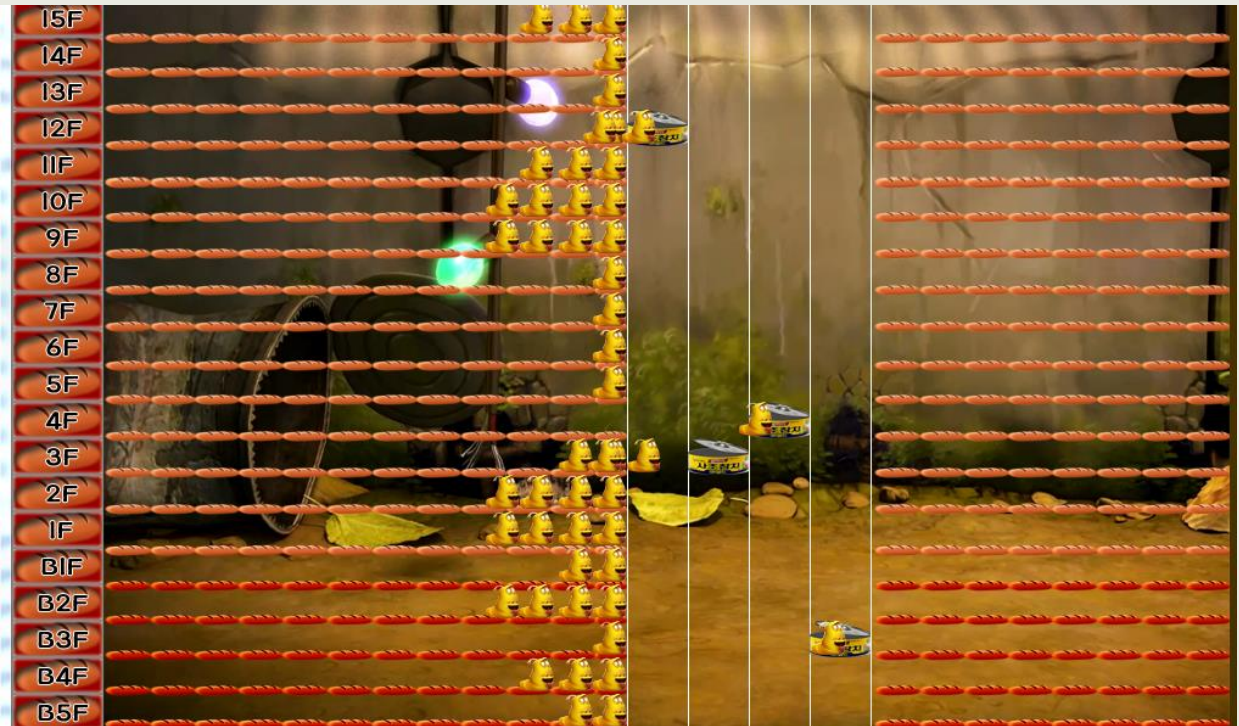
Click to change the status (Closing time – night)

Elevators are located on the 6th, 10th, 15th and B5th floor

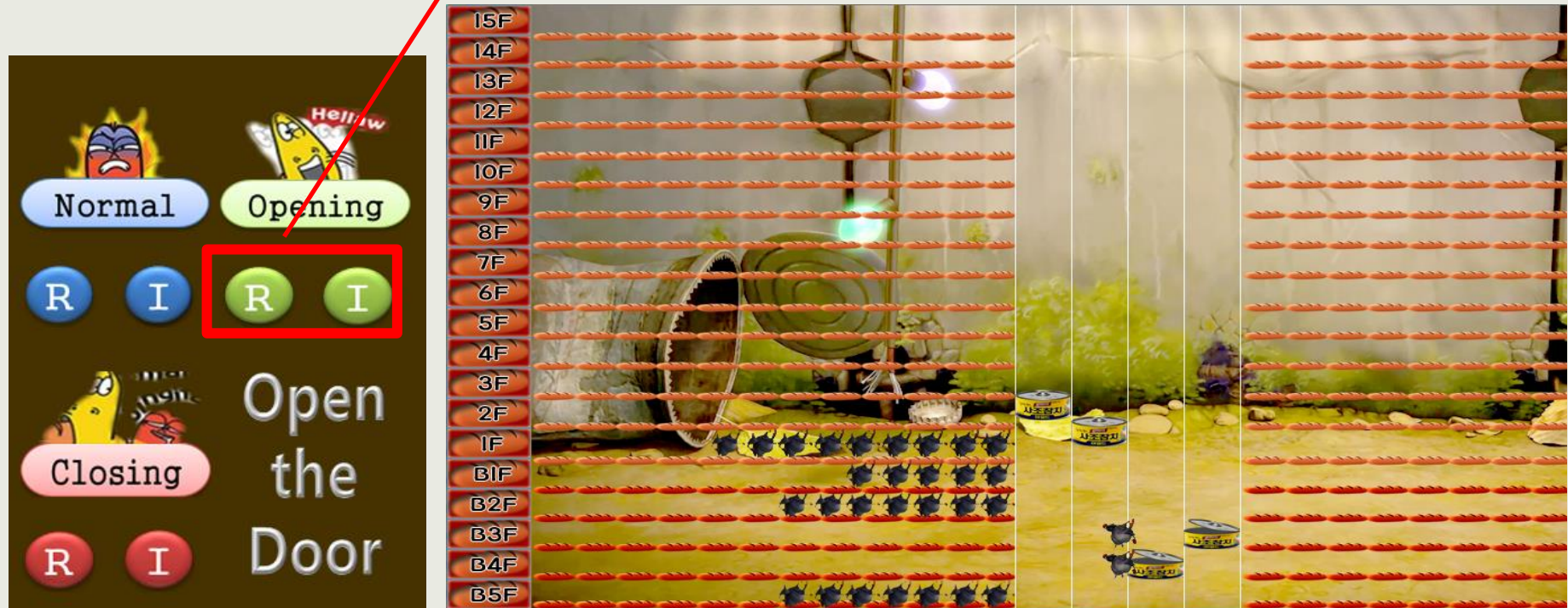**If you click on it, you will see the lava.**

Click the R btn : A number of larvas are produced in all floors.
Click the I btn : A larva is produced in all floors.

* Larvas' destinations are random floor.

If you click on it, you will see the lava.

Click the R btn : A number of lavas are produced from 1ˢᵗ floor to B5ᵗʰ floor.
Click the I btn : A larva is produced from the 1ˢᵗ floor to the B5ᵗʰ floor.

* Larvas' destinations are from 2ⁿᵈ floor to 15ᵗʰ floor.

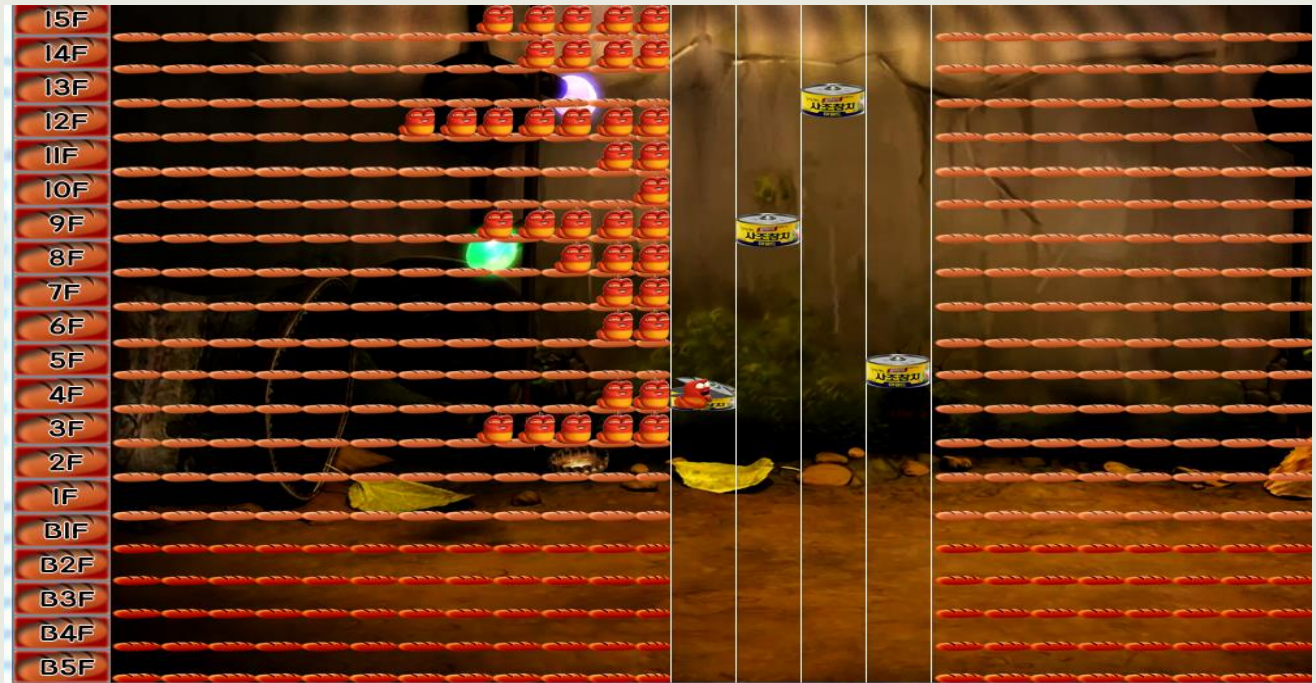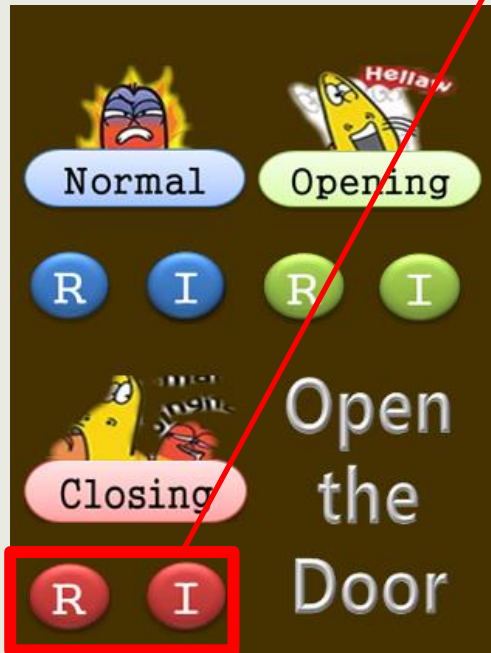**If you click on it, you will see the lava.**

Click the R btn : A number of larvas are produced from 3ʳᵈ floor to 15ᵗʰ floor.
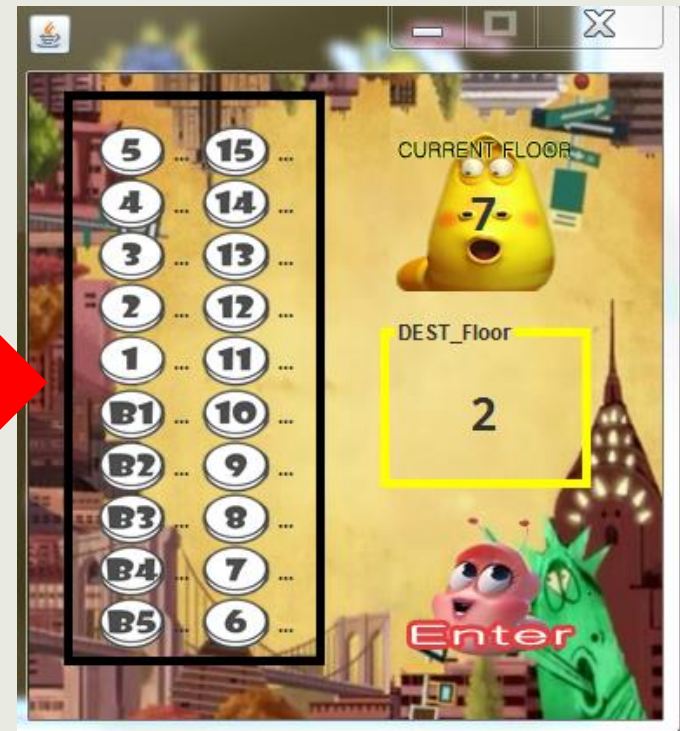**Click the I btn : A larva is produced from the 3ʳᵈ floor to the 15ᵗʰ floor.**

* Larvas' destinations are from B5ᵗʰ floor to 1ˢᵗ floor.

Remote reservation system
Click any floor,

15F
14F
13F
12F
11F
10F
9F
8F
7F
6F
5F
4F
3F
2F
1F
B1F
B2F
B3F
B4F
B5F

The remote control window is opened,
and the destination floor is reserved
when the reservation button is clicked.

\<Remote reservation system\>

Given the highest priority and can lift the elevator first.

Open the door!

State Information

Waiting number	Elevator1		Elevator2	
	Num	Weight	Num	Weight
64	10	500	10	500
Average Time	Elevator3		Elevator4	
	Num	Weight	Num	Weight
1	7	350	10	500

Display the number of people and their weight currently on the elevator. On the left, display the waiting people number and average waiting time.

< Average time >
(The time larva gets off the elevator - The time larva was created)
/ the number of Lava

<Efforts to minimize elevator waiting time>

1. In opening time, **Divide ground elev and underground elev.**
   If all elev are underground, waiting time is twice as large.

2. In opening time, **Divide odd floor only and even floor only elev.**
   Two times less waiting time than elev running all floors.

3. In closing time, **first elev up to 6th floor,**
   second elev from 4th ~ 10th,
   third elev from 8th ~ 15th,
   In the above range, we divided the waiting.

4. **Common** : The 4th elev was used to **assist** the whole elevators
   by running all floors

<Efforts to minimize elevator waiting time>

5. In opening time, closing time, using **S-can**, after dropping everyone, without going anywhere, they return to the initial position.

6. By adding remote reservation, so that the reserved larva can be taken first, use **priority scheduling**.

Thank you