

## Elevators

Twelve floors commercial building has hired you to test new elevators system. There are three main requirements:

1. Two elevators are available, the closest one to the customer will arrive, if not busy.
2. The maximum carry weight capacity is 900 kg or 10 people.
3. The fifth floor is occupied by a foreign embassy and could be accessed only after passing an access card

### 1. Main Functionality

1.1 From the first-floor press call button, verify that one of the elevators started to move, arrived to the floor, doors are opened

1.2 Press the buttons in the elevator to see how it is reacted. Especially the button “call service” to verify if it’s connected with the service.

1.3 I time the arrival time of the elevator; I do this procedure 3-4 times calling it from the same floor to see if it completes the order in the same time interval.

1.4 I get in the elevator and press the ascending floors to see if it stops where you indicated, the same do to descends the floors.

1.5 I get in the elevator and press the 5<sup>th</sup> floor to see if it will take me there (access to this floor is only with a chip).

### 2. Safety

2.1 I get in the elevator with other 9 persons to see if it works (check if it’s corresponded the maximum carry weight capacity).

2.2 When we go up and down, I ask a few people to make movements to check how sensitive it is and if it stops or continues to go up/down.

2.3 I time the opening and closing time of the door, I do it to check if 5 people manage to get on the elevator.

2.4 I check when a person goes up in that time when the doors close, how the sensor reacts at that moment.

2.5 I check the behavior of elevator when I block the door.

2.6 I’m try to open the door when its works and/or stopped.

2.7 Test the elevator behavior in different situations like pour water on the floor and over the buttons, smoke inside, burn papers or wooden sticks.

2.8 Emit the earthquake inside.

### 3. Load

3.1 I check how responsive an elevator is when the other one is busy: I call it, I don't go up, when the doors are close ask somebody on another floor to call it.

3.2 In the elevator press different floor buttons to verify the logic of way. For example, if I'm in the 3th floor and press floor 7 and immediately press button floor 1, logically its first up to 7<sup>th</sup> floor and after to down to the first.

3.3 Call the elevator with other persons on different floors at the same time.