**Scenario 1**

Description: Lift requests from 1st floor

***USER1***-Going up to 10th floor from 1st floor

***USER2***-Going up to 8th floor from 4th floor (lift in 5thfloor)

***USER3***- Going down to 3rd from 4th floor (lift in 5thfloor)

***USER4***-Going up to 8th from 6th floor (lift in 5thfloor)

***USER5***- Going down to 3rd from 6th floor (lift in 5thfloor)

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| --- | --- |
| STEP | RESULT |
| ***USER1***-Press Down arrow | Button does not illuminate, elevator not queued |
| ***USER1***-Press Up arrow | Button illuminates, elevator queued |
| \*Elevator arrives (no action) | Elevator arrives, dings and doors open |
| ***USER1***-Press 1s floor button | Button does not illuminate, elevator does not close doors |
| ***USER1***-Press 10th floor button | Button illuminates, door closes, elevator goes up to 10th floor |
| ***USER2***-Press Up arrow | Button illuminates, elevator queued (first), after finishing the first up trip it will go to this floor |
| ***USER3***-Press Down arrow | Button illuminates, elevator queued (second) |
| ***USER4***-Press Up arrow | Button illuminates, elevator queued, elevator stops and doors open |
| ***USER5***-Press Down arrow | Button illuminates, elevator queued (second), elevator does not stop, since both second queues received are down it will go down joining USER3 |

**Scenario 2**

Description: Lift requests from 10th floor

***USER1***-Going down to 1st floor from 10th floor

***USER2***-Going down to 2 nd floor from 6th floor (lift in 5th floor)

***USER3***- Going up to 8th from 6th floor (lift in 5th floor)

***USER4***-Going down to 2nd from 4th floor (lift in 5th floor)

***USER5***- Going up to 8th from 4th floor (lift in 5th floor)

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| --- | --- |
| STEP | RESULT |
| ***USER1***-Press Up arrow | Button does not illuminate, elevator not queued |
| ***USER1***-Press Down arrow | Button illuminates, elevator queued |
| \*Elevator arrives (no action) | Elevator arrives, dings and doors open |
| ***USER1***-Press 10th floor button | Button does not illuminate, elevator does not close doors |
| ***USER1***-Press 1st floor button | Button illuminates, door closes, elevator goes down to 1st floor |
| ***USER2***-Press Down arrow | Button illuminates, elevator queued (first), after finishing the first up trip it will go to this floor |
| ***USER3***-Press Up arrow | Button illuminates, elevator queued (second) |
| ***USER4***-Press Down arrow | Button illuminates, elevator queued, elevator stops and doors open |
| ***USER5***-Press Up arrow | Button illuminates, elevator queued (second), elevator does not stop, since both second queues received are down it will go down joining USER3 |

**Scenario 3**

Description: Lift requests from 5th floor

***USER1***-Going down to 1st floor from 10th floor (lift in 5th floor)

***USER2***-Going down to 2nd floor from 6th floor (lift in 5th floor)

***USER3***- Going up to 6th from 2nd floor (lift in 5th floor)

***USER4***-Going up to 10th from 1st floor (lift in 5th floor)

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| --- | --- |
| STEP | RESULT |
| ***USER1***-Press Down arrow | Button illuminates, elevator queued (1st) |
| ***USER2***-Press Down arrow | Button illuminates, elevator queued (2nd) |
| ***USER3***-Press Up arrow | Button illuminates, elevator queued (3rd) |
| ***USER4***-Press Up arrow | Button illuminates, elevator queued (4th) |
| \*Elevator arrives to 10th floor (no action) | USER1 enters |
| ***USER1***-Press 10th floor button | Button illuminates, door closes, elevator goes up to 1st floor |
| \*Elevator arrives to 6th floor (no action) | USER2 enters |
| ***USER2***-Press 2nd floor button | Button illuminates, door closes, elevator goes up to 2nd floor |
| \*Elevator arrives to 2nd floor (no action) | USER2 exits |
| \*Elevator arrives to 1st floor (no action) | USER1 exits, USER4 enters |
| ***USER4***-Press 10th floor button | Button illuminates, door closes, elevator goes up to 10th floor |
| \*Elevator arrives to 2nd floor (no action) | USER3 enters |
| ***USER3***-Press 6th floor button | Button illuminates, door closes, elevator goes up to 6th floor |
| \*Elevator arrives to 6th floor (no action) | USER3 exits |
| \*Elevator arrives to 10th floor (no action) | USER4 exits |