

object identification

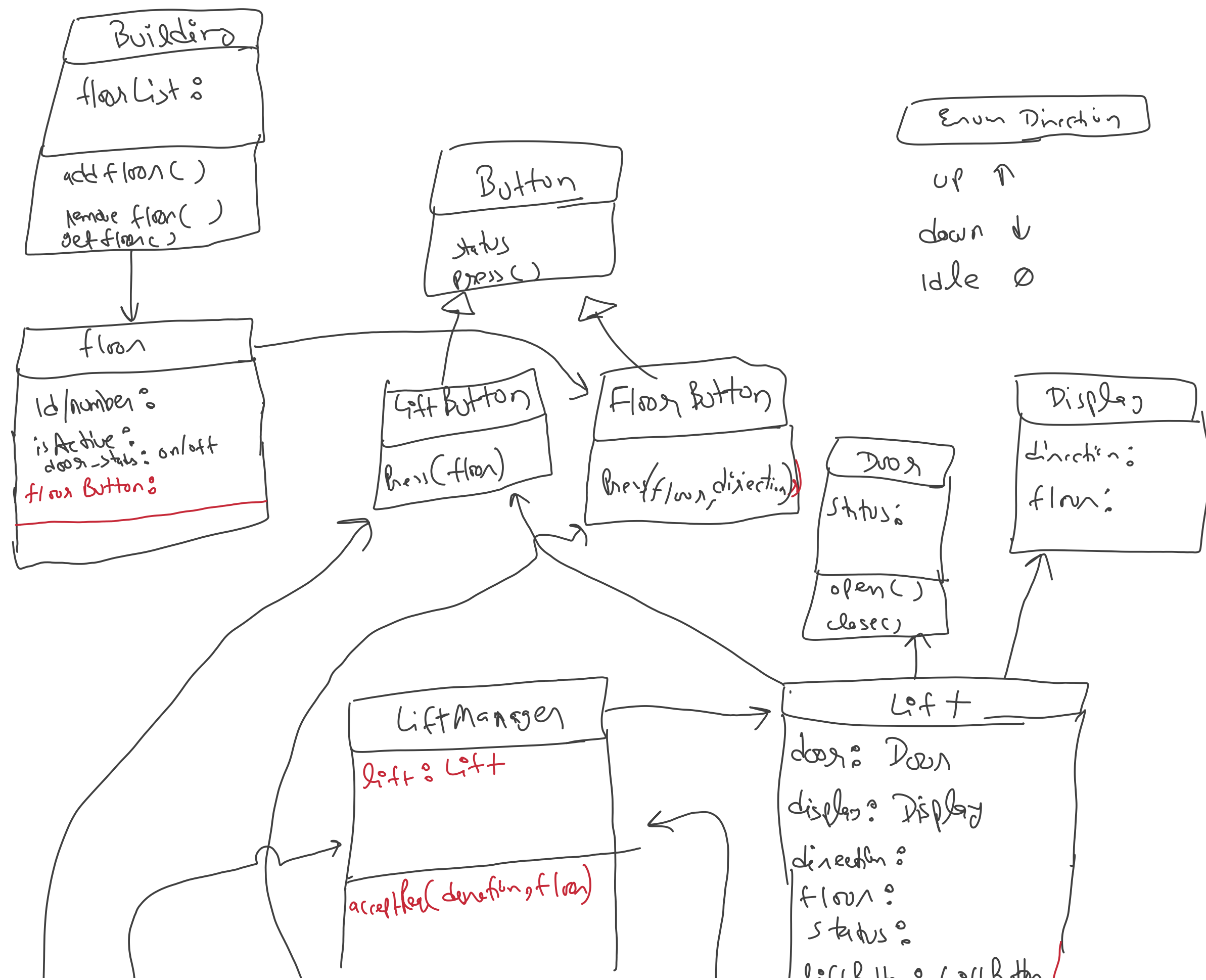
① Building

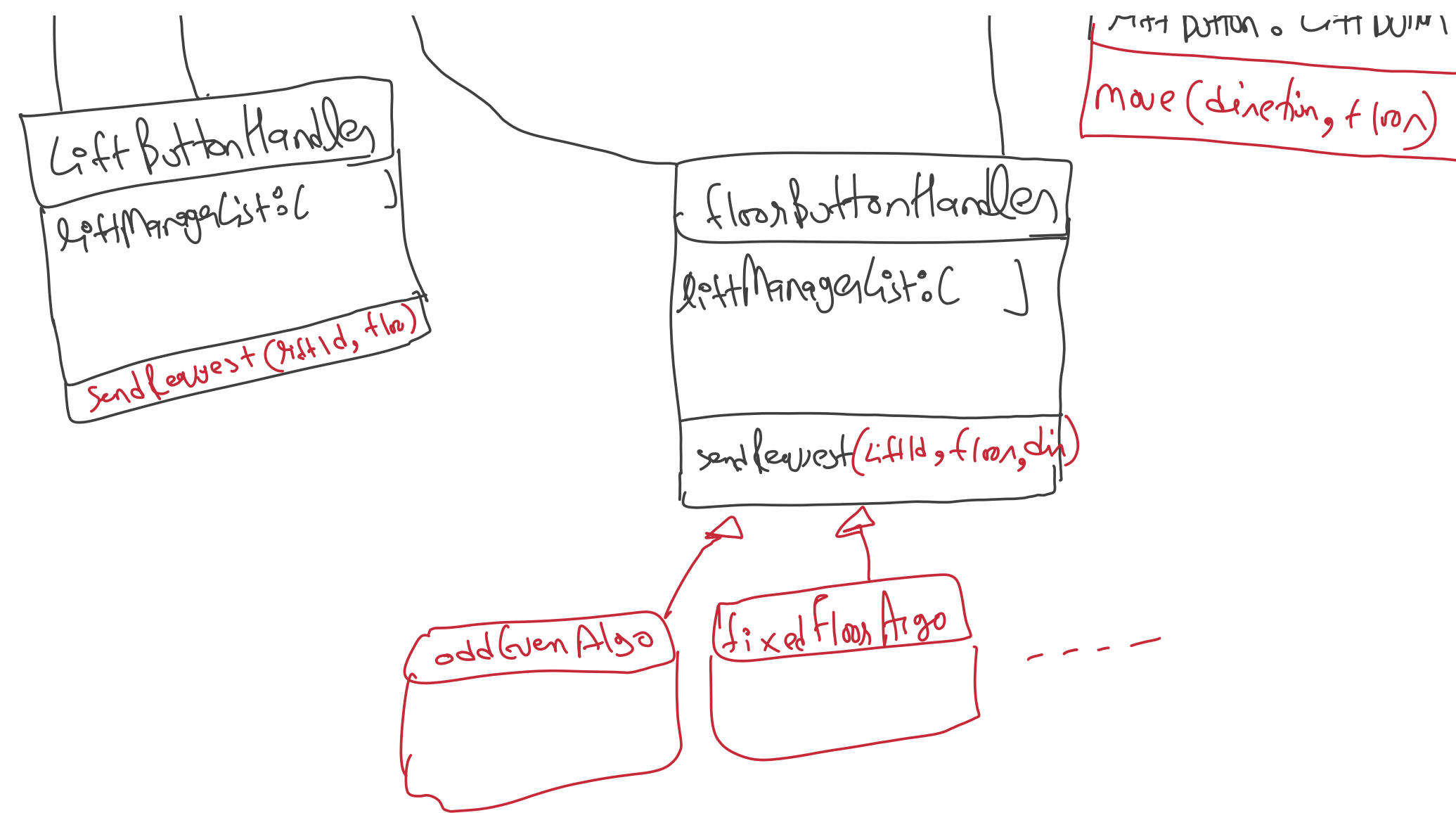
② floor

no. 1

- ③ floor Button \hookrightarrow [0, 1, ...]
- ④ Left
 - ⑤ Lift Button
 - ⑥ Display
 - ⑦ Doors
- Display (displaying current floor & motion)
 Lift Button (also indicating Active button, Lift need to stop at)
 Doors
 current floor
 Direction

Class Diagram





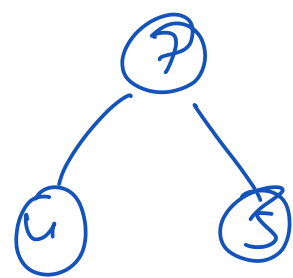
Algorithms

① Even-odd : Lift's stop will depend upon pre defined even-odd logic

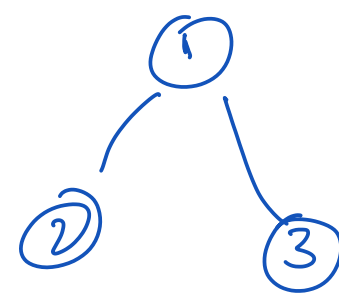
Lift - 2, 4, 6 → even floors
 Lift - 1, 3, 5 → odd floors (either way/predefined)

② fixed floor algo

max-heap



min-heap



→ Lift Going up, it will finish (asc order) 1, 2, 3, so a min-heap will be assigned in order to process floors

→ Lift Going down, it will finish (desc order) 7, 5, 4, so a max-heap will be used to process the floors.

