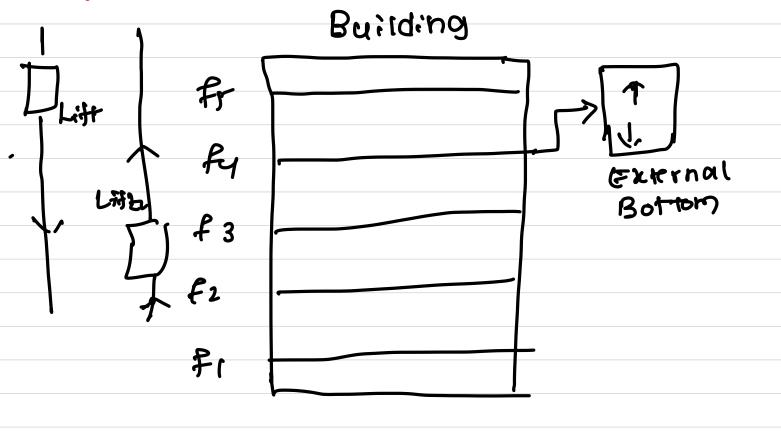
Elevator System (Low Level Design)

Rough Flow:



- 1) User enters a floor of a Building.
- 2) He clicks on External Button (either orl)
- 3) Elevator car comes to the floor.
- 4) user enters the car and clicks on an internal Button
- 5) The car goes to the corresponding froor
- Requirements:
- 1) How many no-of littl ?? n
- 2) What is the algorithm for Exemple botton?

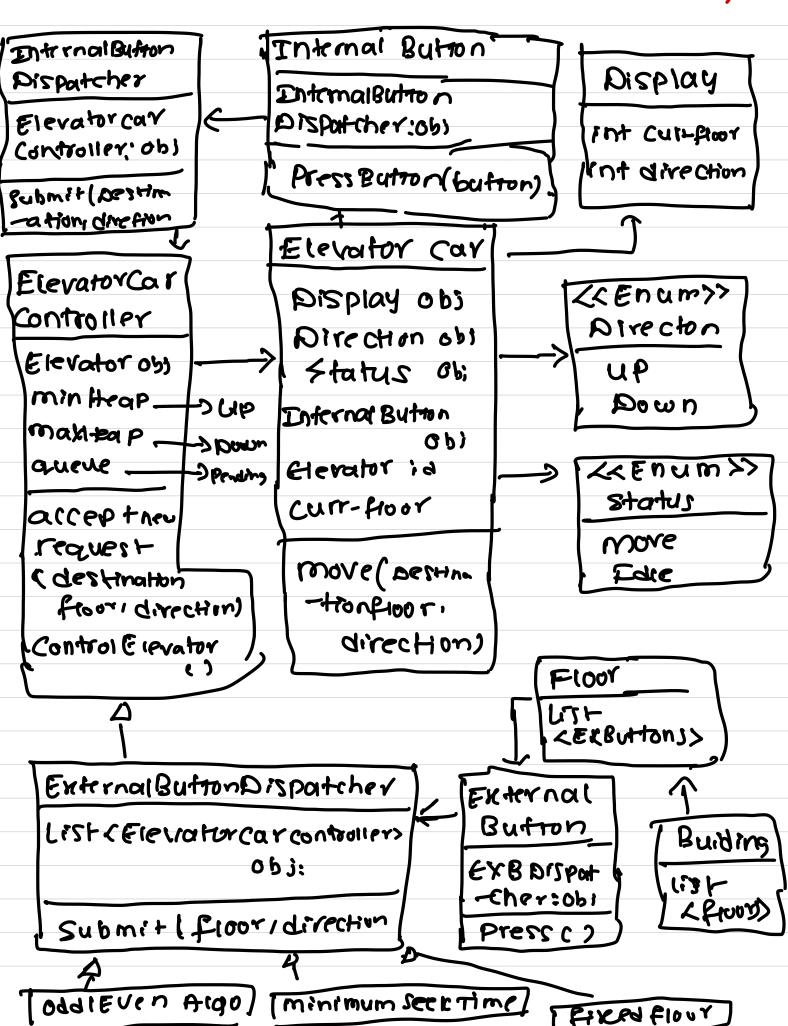
 Can be

- a) Even loda b) Fixed window for a particular 1544 c) minimum seek Time OBJETTS: 1) But Iding Display 2) Floor 一Direction (Tory) - Status (more or Edie) 3) External Button Internal Button 4) Ele vator car current froor 5) Display 6) Internal Button Erums: Direction & Statusa
 - Direction of Statuson

 Up, Move,

 Down: Idie.

Low Level Design: (Buttom UP Approach)



Atgorithms:

1) External Button:

a) Even odd Aigo

Some lith Support odd Number Ploots and vice versa

b) Minimum Secic time
lesser time of arrival from the
requested poor
c) Fixed window:

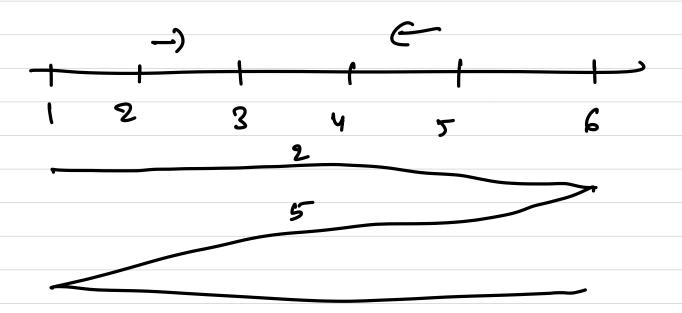
Some Pars support only a set of Floors

2) Elevator Algo: (Scan, Look)

Use cases:

we use minheap & max Heap Logic to support elevator algo

Ex: Current floor = 3 Scan



In scan Algorithm, the car moves all the way
from 0 to 1-1 & rice-versa

Inefficient though (3)

-. We come up with Look

