Ex 1

First id: 212553788 , second id: 325107290

Literature review: <https://www.geeksforgeeks.org/scan-elevator-disk-scheduling-algorithms/>

<https://www.popularmechanics.com/technology/infrastructure/a20986/the-hidden-science-of->

<http://www.diva-portal.org/smash/get/diva2:812034/FULLTEXT01.pdf>

**the problem:** we receive list with elevator calls and a building and we need to return for each call an id of an elevator in a way that as many calls will get an answer and each person will wait a reasonable time until the elevator takes him to his destination.

**the offline algo:** the first calls go for the elevators, each elevator gets one call. with for loop we are going through every remaining call, for each elevator we are checking the floor that the elevator at the exact time that the call from the for was called. The call will arrive to the elevator which her current floor is the closest to the source floor of the call and her direction is the same of the call.

