Elevator specification

# Analysis

## Objectives

Our given objectives:

* Efficiently handle requests: Your implementation needs to manage incoming requests from people waiting to go up or down
* Search for optimal algorithms: Use scheduling algorithms (like the two suggested below) to decide the operation of the lift
* Prioritise requests based on factors such as direction of travel, proximity to the call, and waiting times
* Implement a simulation: you need to simulate real scenarios with multiple passengers requesting the lift. You should also have real-world constraints such as capacity limits and the time taken to move between floors. The simulation here is based on building configurations that allow you to generate statistics of performance.
* Generate charts showing the efficiency of the algorithms: you have to come up with scenarios for your simulation and run experiments showing the statistics of at least two scheduling approaches

## Requirements

* Read an input file and generate an array of floors with the requests to each floor on a file
* Scan algorithm

## Scope

# Design

## Algorithms

### Scan

#### Logic

#### Pseudocode

### Look

#### Logic

#### Pseudocode

# Testing