

Finding Best Available Elevator To Schedule Floor Request

Directional Priority Algorithm Flow Chart

PRIORITY LEVELS

- 1 - Idles that approach start floor with same direction as request
- 2 - Elevators with same direction as request approaching start floor
- 3 - Idles that will approach start floor from opposite direction as request
- 4 - Elevators in opposite direction of request that are moving away from start floor
- 5 - Elevators in opposite direction of request that are approaching start floor
- 6 - Elevators with same direction as request moving away from start floor

IF THERE IS A TIE FOR THE FOUND ELEVATOR
Randomly select a winner



This is really big. If the time budget is does not allow for full validation testing...

Backup easy algorithm :
Assign floor requests to the elevator that has the lowest number of active requests regardless of distance or state.

If there is a tie for lowest number of active requests, randomly select

Algorithm:
First find which value is the min, then loop again to find IDs of everyone with that value to add to a collection. With collection for the IDs, randopick by doing shuffle then pop