Step 1
- Calculates road distance to 50 nearest facilities.
- Sets the nearest facility as a candidate.

Step 2
- Requests to the candidate.
- Adopts the distance and calculates the travel time.

Step 3
- Receives all requests.
- Creates a list of patients in order of distance.
- Takes patients from top of the list until the end of the list or the capacity limit.

Step 4
- Sets next nearest facility as candidate.

Patient
- Sets next nearest facility as candidate.

Facility
- Takes patients from top of the list until the end of the list or the capacity limit.

Request
- Answer
  yes
  no