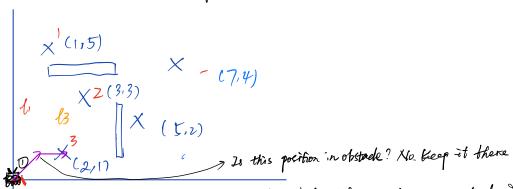
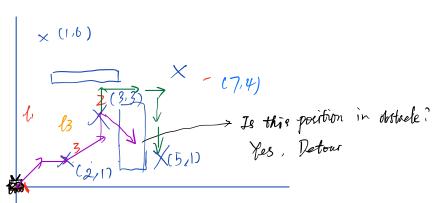
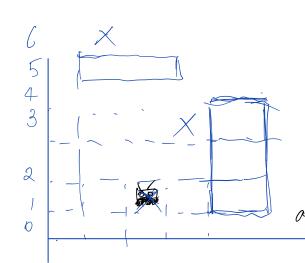


I Calculate the distance between the start point and the end point. and determine the obsert point In this case Point 3 first-

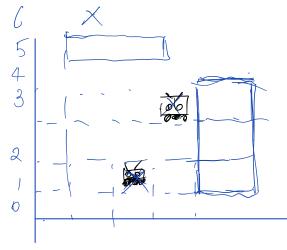


2. Move step by stop to the target point. After each move, check if the robot will tunp into the obstacles. If so, unmove and detour If not, peop the new position





3. After reaching a certain spot, and clean the spot, reevaluate the closest spot and go there by repeating step I not step 2.



4. Based on each robot's chearing efforcy and moving efficacy, we allocate robots which has higher moving efficacy to farther work places and robots which has

Righer clear efficiency start at spots close to their workplace and assign them heavier clear load,