

Approach:

I took following steps to reach the goal: -

1. “moveBoxToStationConvertOrderToWorldAndReturnPose” which moved the box to a either Q1 or Q2 station or shipping point.
2. Update the pose w.r.t to current box location after moving.
3. At each station Q1 and Q2, I started with the following steps:
 - Remove bad parts from the box.
 - Put missing parts into the box.
 - Adjust the misplaced parts in the box.
4. Check if any error is there or not by repeating the above steps again at each quality station.

Results and Observations: -

1. I got the max score of 9 which shows the results are pretty good.
2. But it takes a significant amount of time to run the whole simulation.
3. Sometimes it hangs at a particular node for a long time and sometimes it doesn't as seen in the video.