Container challenge

You're in charge of the design of a trash container:

- 1) Users deposit their trash on top tray
- 2) Tray is taken away automatically
- 3) Trash is thrown into an opening at the back

Design a linkage that moves the tray in the desired way, without traversing the container. Pivot points should be on the sides of the container, no extensions.

Determine the location of the pivot points and the lengths of the links (25 pts).

Extra points:

- Make the two shown positions the extremes of motion (3 pts)
- Compute and trace the path of the tray (6 pts)