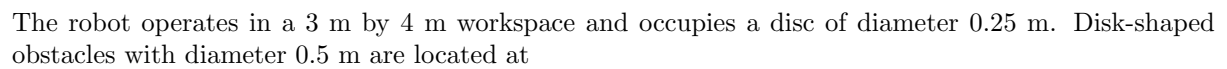


Consider the path optimization of a given path of a disc-shaped robot moving in the environment shown in the figure below.



A collision-free path is given with milestones (ordered list)

Find an optimized path based on the given milestones, by a) minimizing path length and b) ensuring a large clearance. Use $step = 0.1$ m.