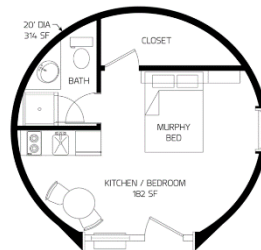
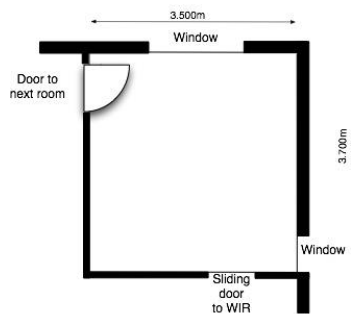


FALL 2022 CIS 142 Logic Assignment 1

Shakey the Robot



Construct an algorithm that Shakey can be used to leave a room. Assume Shakey is standing somewhere in the room. Assume the room has at least one door, once recognized the Shakey can turn the handle and exit the room; provided Shakey is in front of the door.



Try to test the algorithm on a variety of room configurations. You may wish to test your algorithm with friends or family by seating them in a chair in a room, and reading the instructions one step at a time, to see whether your solution works.

Restrictions

- The robot is not a Gundam
- The robot cannot fly
- The Robot is not armed
- Robot has rudimentary vision (you must guide it)
- The robot cannot teleport.
- Robot can only take one step at a time
- The robot does not have a grappling hook.
- The robot can sense objects
- The robot cannot go through objects