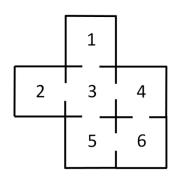
INDE 597 Homework 5 Due date 4/17

Pledged homework: you can use your class notes and any text or online sources, but don't collaborate with other students in the class. Cite any sources you have used.

 A mouse is placed in Room 1 of the following maze, and a block of cheese is placed in Room 5. The mouse starts exploring the maze by repeatedly moving to a random adjacent room.



- a) Form a transition matrix *M* for the mouse's movements.
- b) Find a stationary vector for *M*.
- c) Does *M* have a limiting vector?
- d) What is the expected number of steps it will take the mouse to reach the cheese?

More questions may be added later