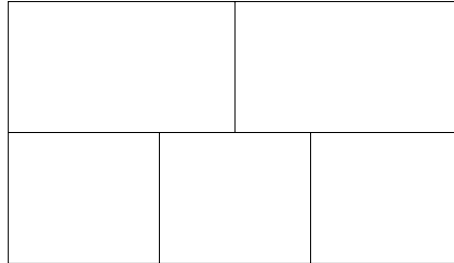


MATH 113: DISCRETE STRUCTURES
FRIDAY WEEK 7 HANDOUT

Consider the following floor plan for a building:



We would like to know if it is possible to cross each interior wall in the building exactly once (without teleporting).

- Problem 1.* (a) Turn this into a graph theory problem about a particular kind of walk.
(b) Either find such a walk, or prove that no such walk exists.
(c) What if we want to pass through the exterior walls as well?