Junior Knights Contest Course Spring 2024 2/10/2024 – Outline

I. Lecture Part I: Breadth First Search on a 1D or 2D Grid

    A. Identifying Connected Components
    B. Getting Shortest Distance from one spot to another in a grid.

    Elevator Trouble: https://open.kattis.com/problems/elevatortrouble
    Counting Stars: https://open.kattis.com/problems/countingstars

    Challenge Problem
    Grid: https://open.kattis.com/problems/grid

II. Break

III. Lecture Part II: Breadth First Search on a Graph

    A. How to Store a Graph
    B. Canonical Code

V. Practice Problems:

    Horror List: https://open.kattis.com/problems/horror
    On Average They're Purple: https://open.kattis.com/problems/onaveragetheyrepurple