Section 8 Overview

Agenda
- Mini-Assignment
- Topological Sort
- Graph Algorithms
  - Dijkstra’s
  - Bellman-Ford
  - Prim-Jarnik
  - Kruskal’s
- Midterm Review

Optional Problems

Interview Question
Write an algorithm that takes in a list of numbers and a goal number, and returns whether or not a pair in the list sums to the goal number.

Solution:
def findNumSums(L, sum):
    // inputs: list L of numbers, and integer sum
    // output: whether or not there exists a pair in L that sums to sum
    Hashset hash is an empty hashset of integers
    for each number n in L:
        if hash contains sum - n:
            return true
        insert n into hash
    return false