Assignment 4

279/377
2021 spring

Questions:

1. Given a time table of railway trains, design an algorithm to find the minimum number of platforms so that all the trains can be accommodated.

   Example of time table:

Trains	Arrival	Departure
A	9am	9:30am
B	9:15am	1:00pm
C	10:30am	11:00pm
D	10:45am	11:45am

2. Solve leetcode problem "1791. Find Center of Star Graph" and make a successful submission.

3. Given an integer representing money amount, one problem is to use minimum number of coins (with given values) to make up this value (assuming there is unlimited number of coins). For example, given $14, and coin system {1, 5, 10, 15, 20}, it can be changed into {10, 1,1,1,1} (one 10 and four 1s)

   Do you think if this problem can be solved by Greedy Algorithm? If not, give a counter example.