TP Activity 1: (10 minutes)

Tourist Bus Scheduling: The Direct Way

Tourist Problem Version 1.0
Given: A list of tourist, each with his/her list of places to visit.
To do: Schedule bus rides for them so that
each tourist visits all the places in his/her list, and
C1: Each tourist visits *at most one place a day*,
C2: There is *at most one bus trip to each place, and*
C3: *minimize* the number of days to complete mission.

An Instance of Tourist Problem

Tourist	Places of Interest
Aaron	SZG, BG, JB
Betty	CG, JG, BG
Cathy	VC, SI, OR
David	JG, CG, OR
Evans	CG, JG, SZG

Note the conflicts:
On same day:
* Cannot schedule BG and JB
(Aaron wants to visit both)
* Can schedule SZG and OR
(nobody want to visit both)

To schedule P1, P2, P3 on same day:
must check no conflict between
P1—P2, P2—P3, P1—P3;

Q1: Using the above information, try to schedule the bus trips.
Make sure to check *all* the conflicts.
(You want to minimize the # days needed to complete all the bus trips.)

Day 1: _____

Day 2: _____

Day 3: _____

Day 4: _____

Day 5: _____

Q2: Describe the key idea you used when you do the scheduling?