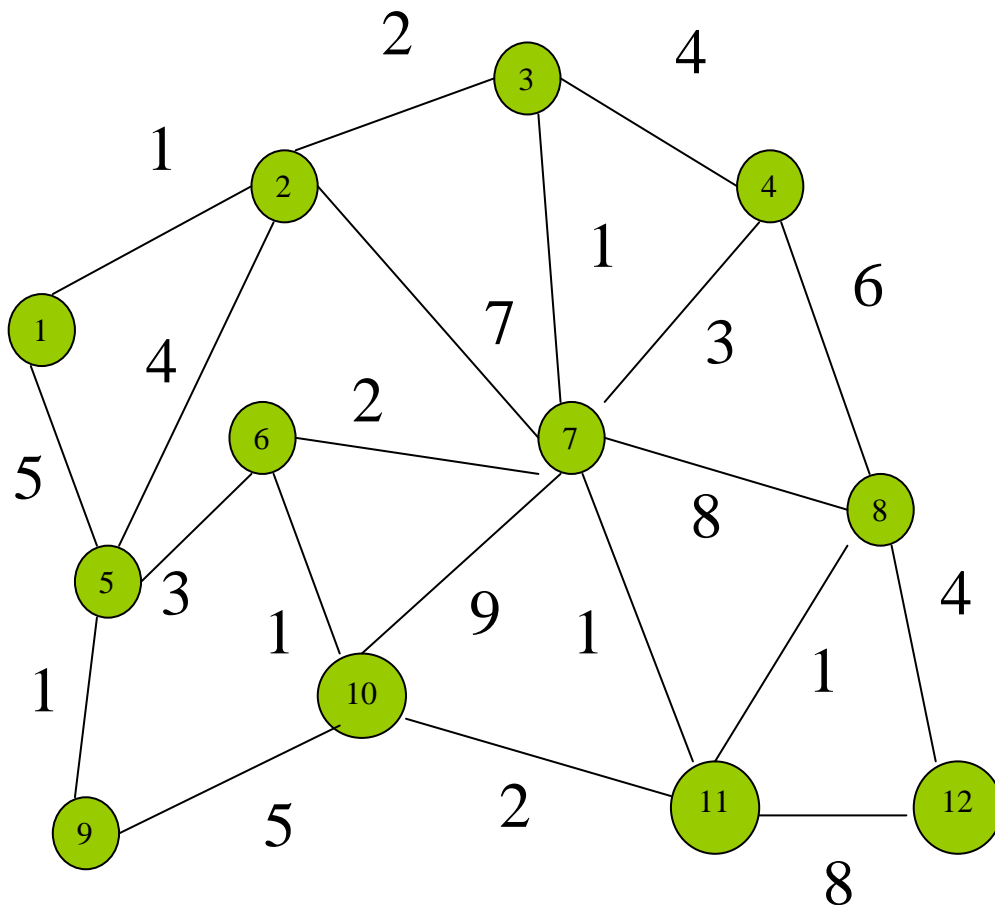# Tutorial Two

Exercise 1. (basic) For the interval scheduling problem (in week2's slides), the set of jobs (s_i, f_i) are as follows:

(0, 6), (1, 4), (3, 8), (2, 3), (6, 9) (4, 10), (5, 11), and (6, 7).

Use the greedy algorithm to give the maximum number of compatible jobs.

Exercise 2. (basic) Find a minimum spanning tree for the following graph using Kruskal's algorithm.

If there is still time, please consider the following problem. (hard)

Selecting Breakpoints

Selecting breakpoints.
- Road trip from Princeton to Palo Alto along fixed route.
- Refueling stations at certain points along the way.
- Fuel capacity = C.
- Goal: makes as few refueling stops as possible.

Greedy algorithm. Go as far as you can before refueling.

Algorithms/WANG Lusheng