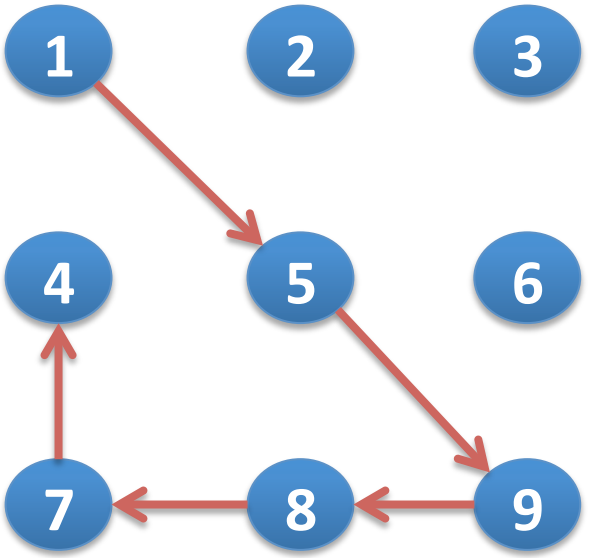
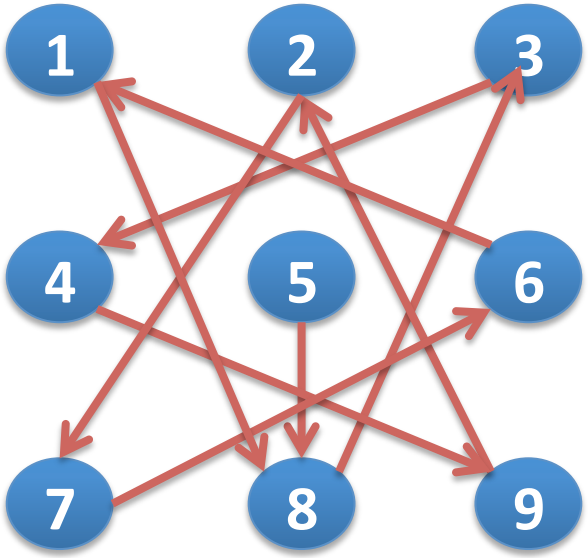
# CH1 Homework

1. In example 14, if we have one new step R-, that means a backward walking x=x-1, think about how to calculate the number of paths from (2, 1) to (7, 4). Note that R- can't follow by a step R.
   - Also, if we have U-?
   - Do we need some constraints?
   - Give an example problem (programming) this assignment related to.

# CH1 Homework

2. Path Pattern Counting: What is the total different path patterns when you draw in your mobile phone as your passwords (at least 4 nodes connected)?
   - Add constraints you want (e.g., 'cannot cross node', 'the length of connected two nodes cannot be larger than x)
   - Analyze your idea




- Use A4 paper to write your homework
- Due: 3/6 10am

# CH1 Quiz Practice

- **1-2:** 22, 28, 34
- **1-3:** 18, 26
- **1-4:** 18, 25, 26
- Supplementary: 26

- **Homework Quiz**
  - Every 2~3 chapters
  - 30~50 mins quiz
  - Open book
- Quiz 1 is scheduled on 3/13.