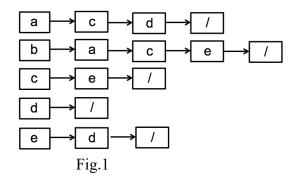
Homework 3

Due Date: 23:59, Monday, 07/12/2021

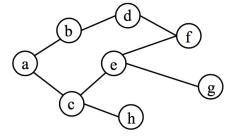
- 1. (20 points.) Find a Longest Comment Subsequence (LCS) of x = <1, 0, 0, 1, 0, 1, 0, 1> and y = <0, 1, 0, 1, 1, 0, 1, 1, 0>
- 2. (20 points.) According to the following adjacency list (Fig.1), draw the corresponding *directed graph*.
- 3. (20 points.) According to the following adjacency matrix (Fig.2), draw the corresponding *undirected graph*.



а	b	С	d
1	0	0	1
0	0	1	0
0	1	0	0
1	0	0	0
	1	1 0 0 0 0 1	1 0 0 0 0 1 0 1 0

Fig.2

4. Given the following undirected graph.



- (1) (20 points.) Draw the Depth First Search (DFS) trees corresponding to this graph.
- (2) (20 points.) Draw the Breath First Search (BFS) trees corresponding to this graph.