

CSE 101 4-21-26

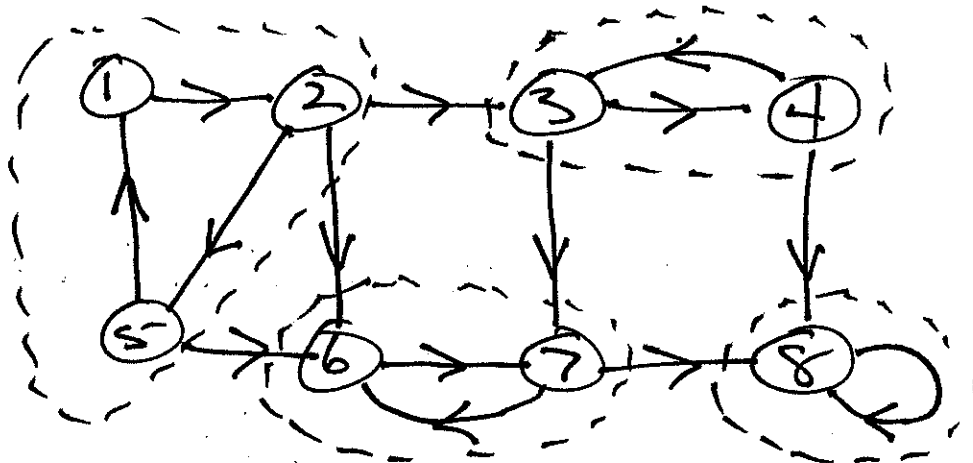
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Thur. 4/23 ! mid 1

Pa3! ext. 1 day

# Ex SCC

G



stack

1 ✓

2 ✓

5 ✓

3 ✓

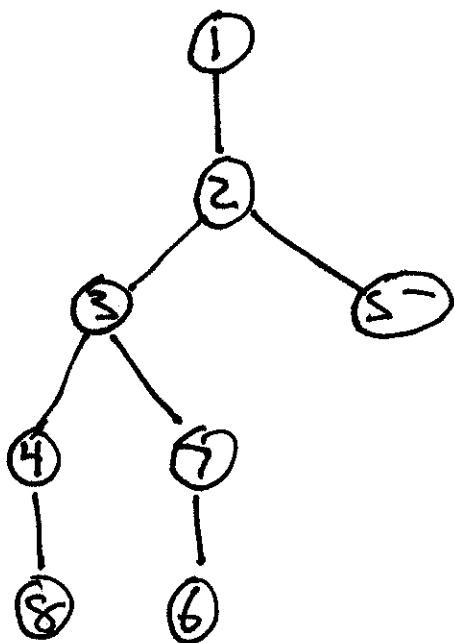
7 ✓

6 ✓

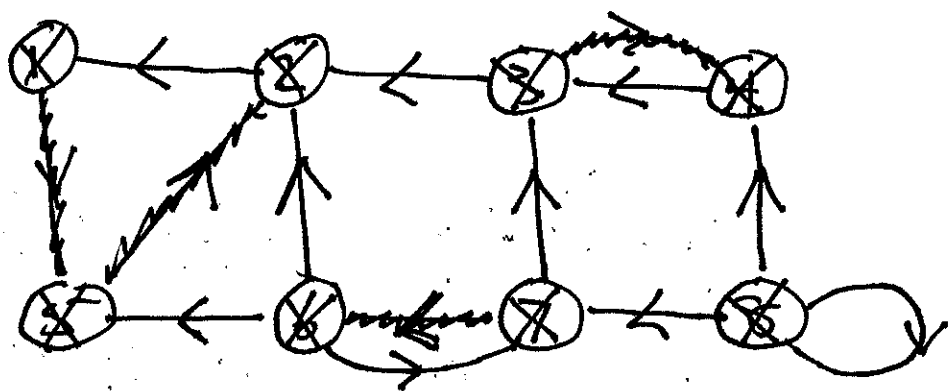
4 ✓

8 ✓

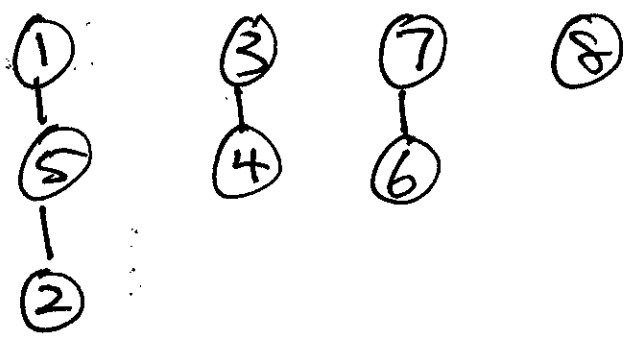
forest



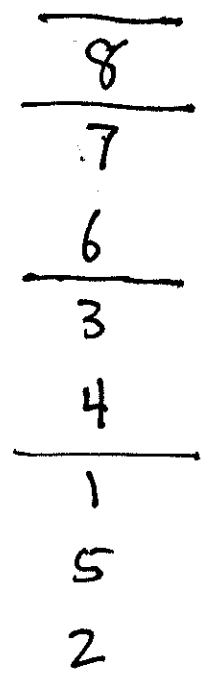
$G^T$



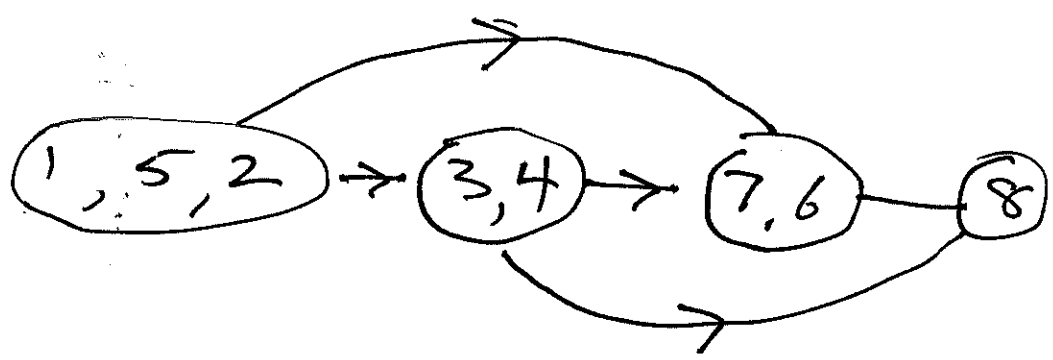
Insert



Stack



$G^{SCC}$  (top. sort.)



output file

1: (1, 5, 2)

2: (3, 4)

3: (7, 6)

4: (8)

Paz: client

Prepare list:  
 $(1, 2, \dots, n)$

DFS  $(G, S)$

$T = \text{Transpose}(G)$

state of list:  
stack  $(1^{st})$

DFS  $(T, S)$

state:  
stack  $(2^{nd})$

Exercise

Use Graph ADT from Pa3  
to find the connected  
components in an undirected  
graph.