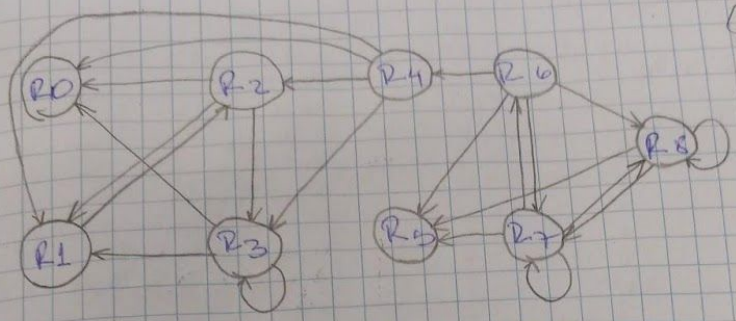
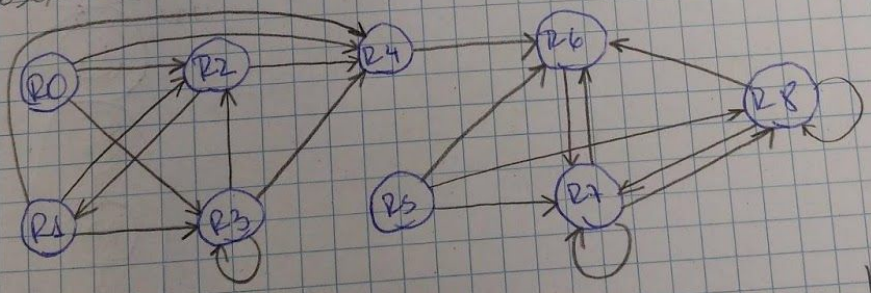
GRAP



R0 -
R1 - R2
R2 - R0, R1, R3
R3 - R0, R1, R3
R4 - R0, R1, R2, R3
R5 -
R6 - R4, R5, R7, R8
R7 - R5, R6, R7, R8
R8 - R5, R7, R8

EDGES BETWEEN VERTICES WHICH DEPEND ON E/O | REVERSE GRAPH



R0 → R2, R3, R4
R1 → R2, R3, R4
R2 → R1, R4
R3 → R2, R3, R4
R4 → R6
R5 → R6, R7, R8
R6 → R7
R7 → R6, R7, R8
R8 → ~~R6~~, ~~R7~~, ~~R8~~

Visited	ADJLIST	STACK	DFS
✓	R0: R1	R0	R0
✓	R1: R0	R0, R1	R1
✓	R2: R0, R1, R3	R2	R3
✓	R3: R2	~~R2~~, ~~R3~~	R2
✓	R4: R2	R4	R4

R1 R0 R3 R2 R

#1105.

POST ORDER LIST	VISITED	ADJ LIST	STACK
[28, 27, 26, 24, 23, 21, 22, 20]	✓	20: 22, 23, 24	20
	✓	22: 21, 24	20, 22
[28, 27, 26, 24, 23, 21, 22, 20, 25]	✓	21: 22, 23, 24	20, 22, 24
	✓	23: 22, 23, 24	20, 22, 21, 23
	✓	24: 26	20, 22, 21, 23, 24
	✓	26: 27	20, 22, 21, 23, 24, 26
	✓	27: 26, 22, 28	20, 22, 21, 23, 24, 26, 27
	✓	28: 26, 27, 28	20, 22, 21, 23, 24, 26, 27, 28
	✓	25: 26 27, 28	25

DFS FOREST

20 → 26 → 24
↓ ↑
22 → 24 → 21
↓ ↑
21 → 23

25

SCCs.

POSTORDERLIST	VISITED	ADJ LIST	STACK
~~28, 27, 26, 24, 25, 21, 22, 20, 25~~	✓	25	25
	✓	20	20
	✓	21: 20, 21, 23	22
	✓	22: 22	22, 21
	✓	23: 20, 21, 23	22, 23
	✓	24: 20, 21, 22, 23	24
	✓	26: 24, 25, 27, 28	26
	✓	27: 25 26 27, 28	26, 27
	✓	28: 23, 27, 28	~~26, 24, 26~~

DFS FOREST