Shubham Sanjay Jain

CWID: 10456815

Stevens Institute of Technology
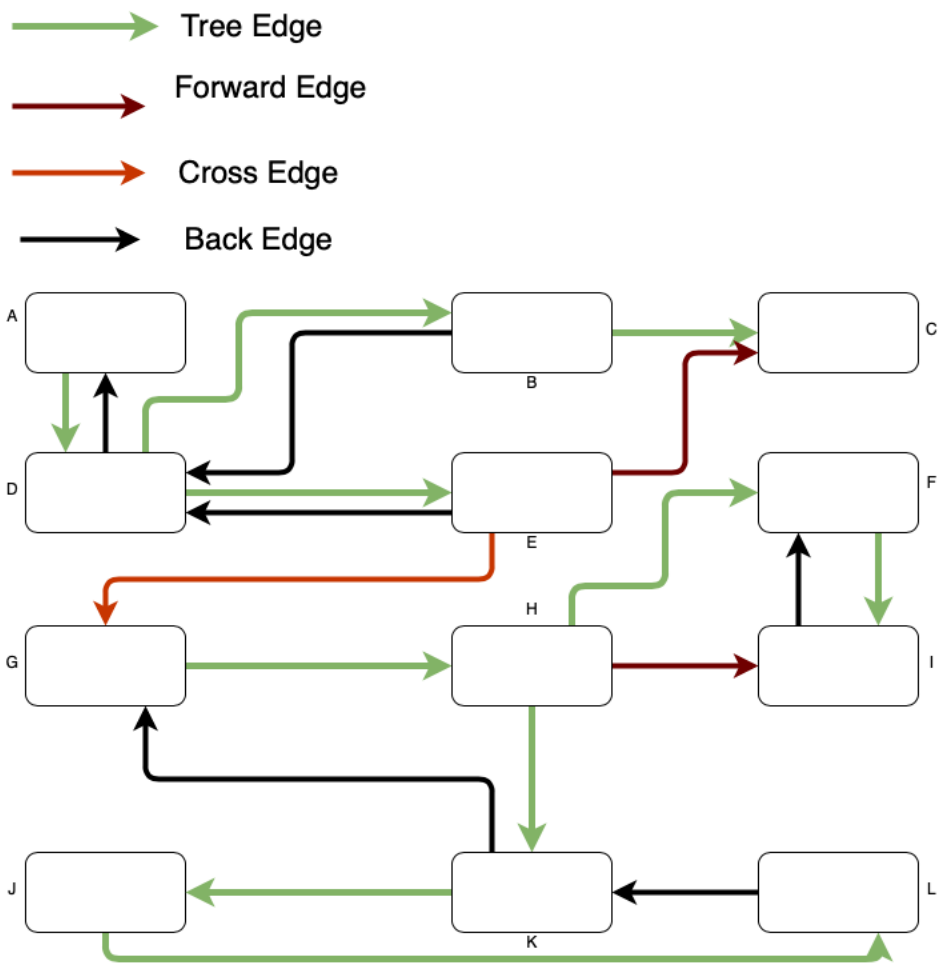
Master of Science in Computer Science

Submitted to: Prof. Iraklis Tsekourakis
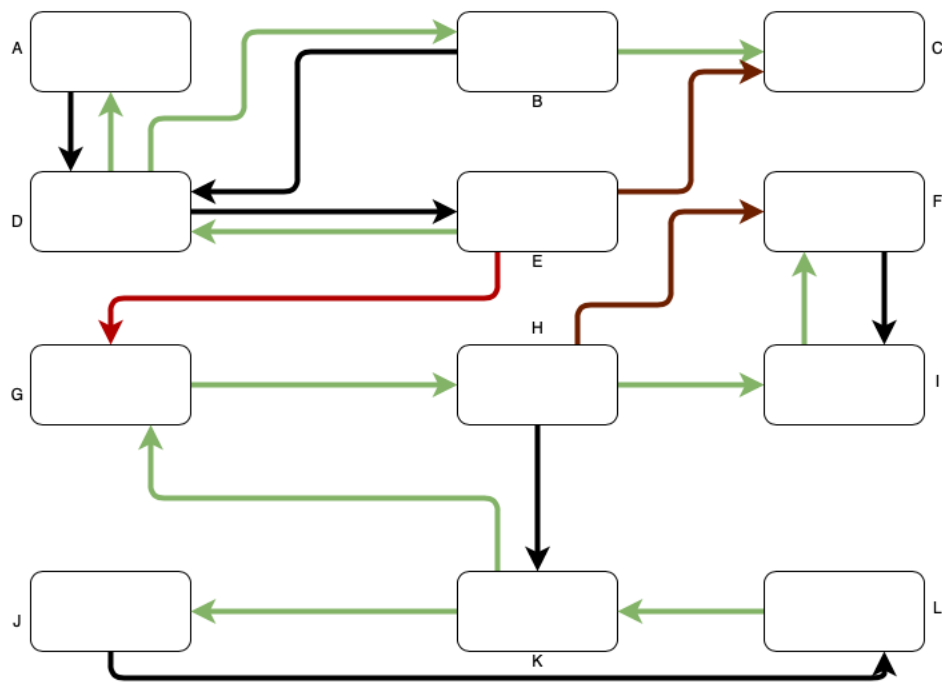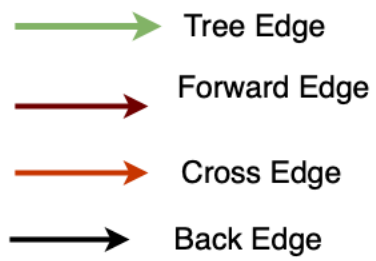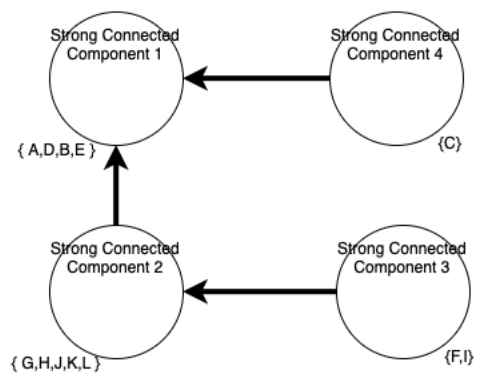
CS 590 Algorithms

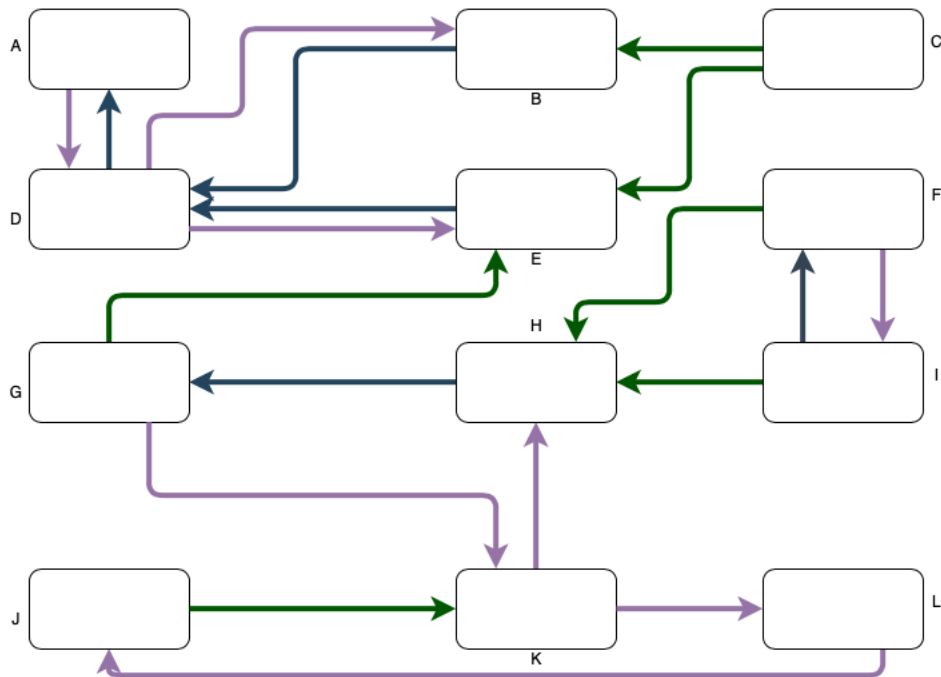Solution: Assignment 5

1) a.

Tree Edge

Forward Edge

Cross Edge

Back Edge

	Discovery Time	Final Time
A	1	24
B	3	6
C	4	5
D	2	23
E	7	22
F	10	13
G	8	21
H	9	20
I	11	12
J	15	18
K	14	19
L	16	17

1) b.

	Discovery Time	Final Time
A	21	22
B	17	20
C	18	19
D	16	23
E	15	24
F	8	9
G	5	12
H	6	11
I	7	10
J	3	4
K	2	13
L	1	14

1) c.

Tree Edge

Forward Edge

Back Edge
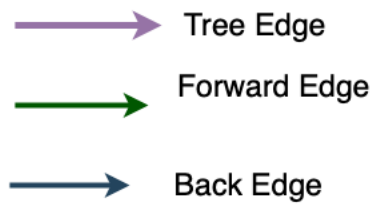
	Discovery Time	Final Time
A	1	8
B	3	4
C	23	24
D	2	7
E	5	6
F	19	22

G	9	18
H	11	12
I	20	21
J	14	15
K	10	17
L	13	16

1) d.

Tree Edge
Forward Edge
Back Edge
Cross Edge
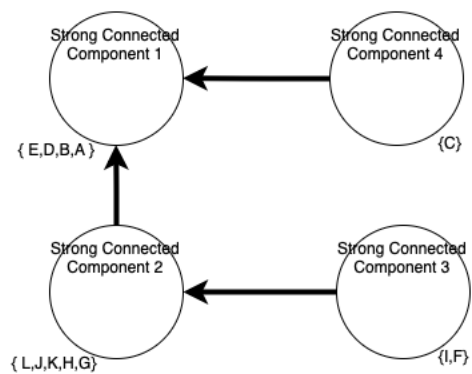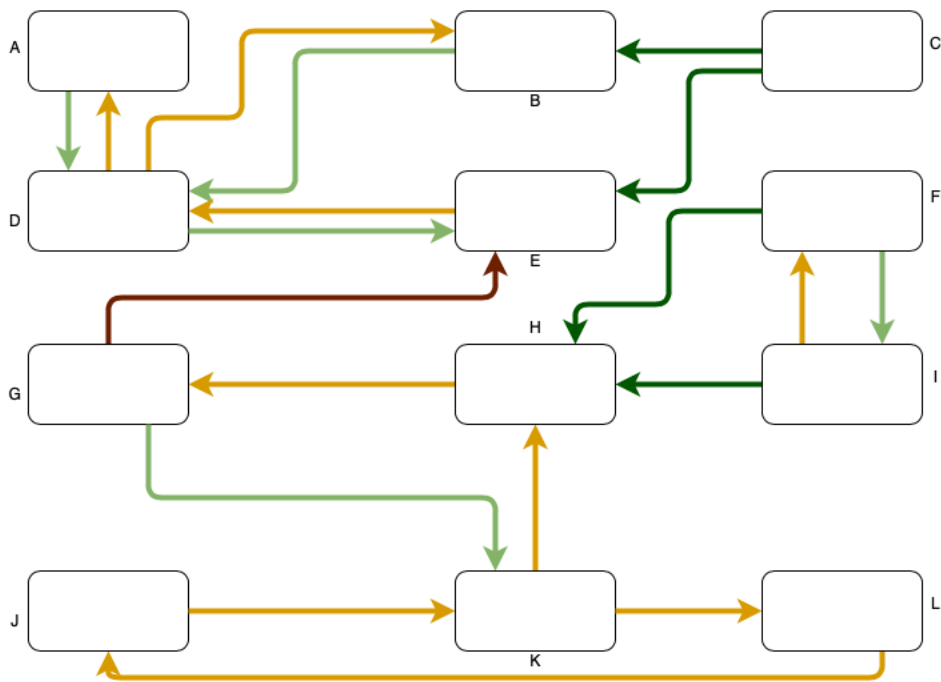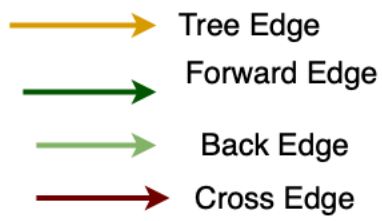
	Discovery Time	Final Time
A	5	6
B	3	4
C	9	10
D	2	7
E	1	8
F	22	23
G	15	16
H	14	17
I	21	24
J	12	19
K	13	18
L	11	20