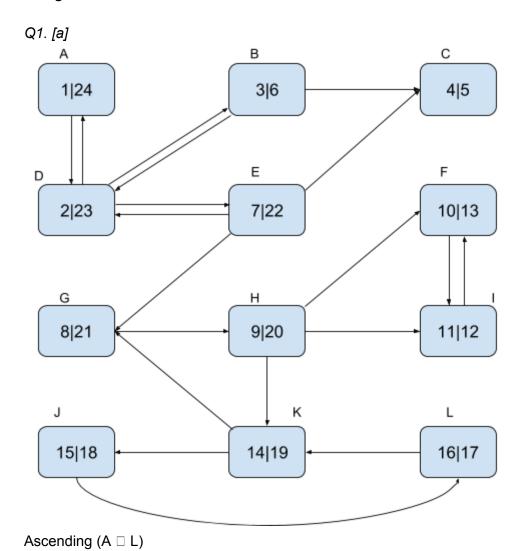
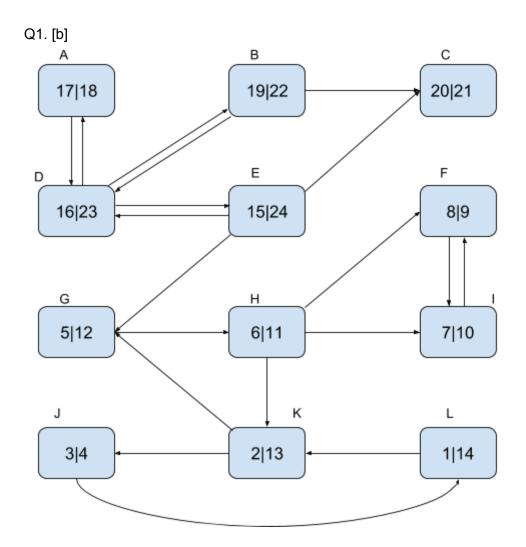
## Assignment 6



Nodes(u)	Start Time(u.d)	Finish Time(u.f)
А	1	24
В	3	6
С	4	5
D	2	23
E	7	22
F	10	13
G	8	21
Н	9	20
I	11	12
J	15	18
K	14	19
L	16	17

.

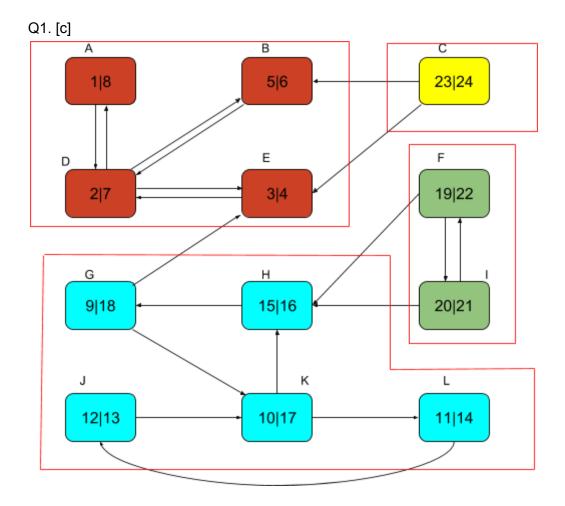
Edge (u,v)	Tree	Back	Forward	Cross
A,D	Т	F	F	F
D,A	F	Т	F	F
D,B	Т	F	F	F
B,D	F	Т	F	F
B,C	Т	F	F	F
D,E	Т	F	F	F
E,D	F	Т	F	F
E,C	F	F	F	Т
E,G	Т	F	F	F
G,H	Т	F	F	F
H,F	Т	F	F	F
H,I	Т	F	F	F
F,I	F	F	Т	F
I,F	F	Т	F	F
H,K	Т	F	F	F
K,J	Т	F	F	F
J,L	Т	F	F	F
L,K	F	Т	F	F
K,G	F	Т	F	F



Descending (L  $\square$  A)

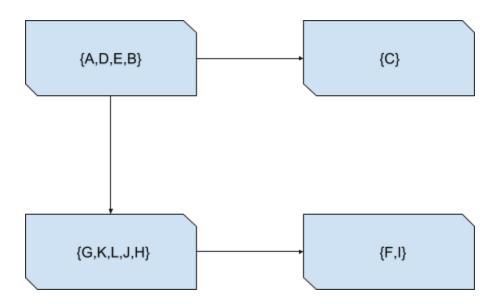
Nodes(u)	Start Time(u.d)	Finish Time(u.f)
Α	17	18
В	19	22
С	20	12
D	16	23
E	15	24
F	8	9
G	5	12
Н	6	11
1	7	10
J	3	4
K	2	13
L	1	14

Edge (u,v)	Tree	Back	Forward	Cross
A,D	Т	Т	F	F
D,A	F	F	Т	F
D,B	Т	F	F	F
B,D	F	Т	F	F
B,C	Т	F	F	F
D,E	Т	Т	F	F
E,D	F	F	Т	F
E,C	F	F	Т	F
E,G	Т	F	F	F
G,H	Т	F	F	F
H,I	Т	F	F	F
H,F	Т	F	F	F
F,I	F	Т	F	F
I,F	F	F	Т	F
H,K	Т	Т	F	F
K,J	Т	F	F	F
J,L	Т	Т	F	F
L,K	F	F	Т	F
K,G	F	F	Т	F

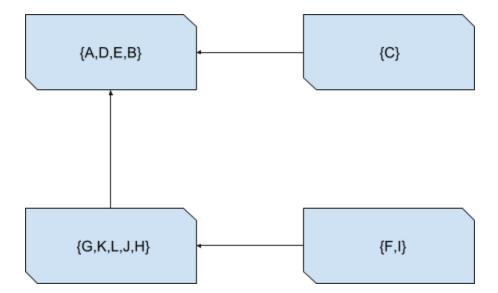




For G

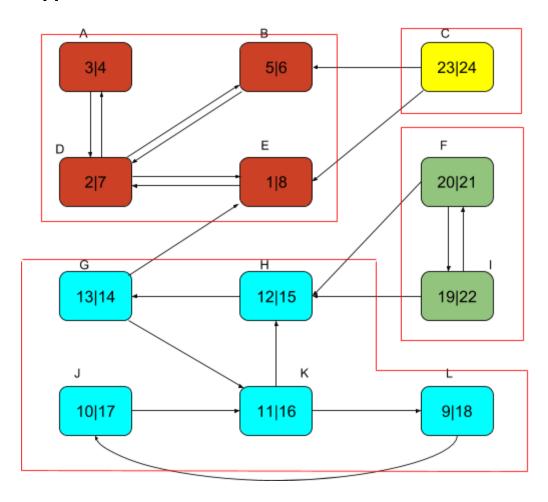


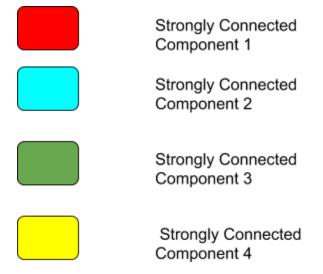
For  $G^T$ 



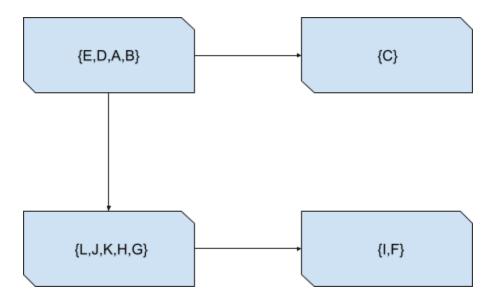
Nodes(u)	Start Time(u.d)	Finish Time(u.f)
Α	1	8
В	5	6
С	23	24
D	2	7
E	3	4
F	19	22
G	9	18
Н	15	16
I	20	21
J	12	13
K	10	17
L	11	14

Q1.[d]

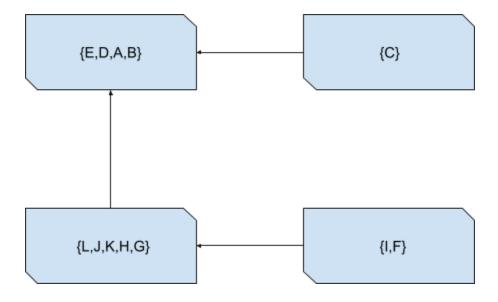




For G



For  $G^{\mathsf{T}}$ 



## SCC for Descending (L $\square$ A)

Nodes(u)	Start Time(u.d)	Finish Time(u.f)
Α	3	4
В	5	6
С	23	24
D	2	7
E	1	8
F	20	21
G	13	14
Н	12	15
1	19	22
J	10	17
K	11	16
L	9	18

NOTE: We used the graph above as our test case. Now for 1.[b] D can go to either node A or node B, In our written solution we've considered  $D \rightarrow A$  while in our program  $D \rightarrow B$  is considered. The same situation can happen in other junctures of choice.