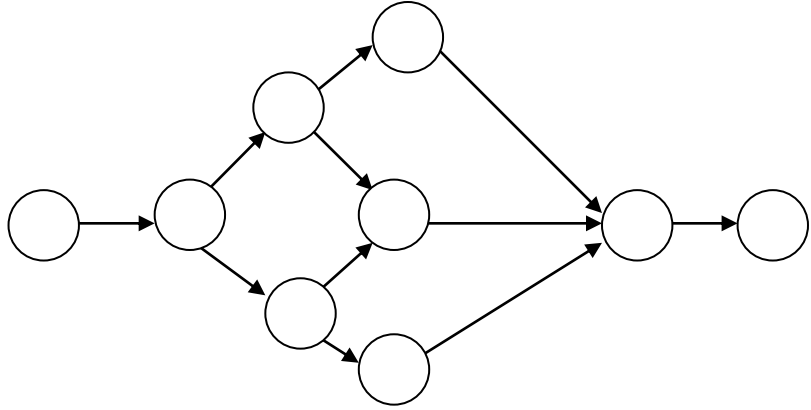


These graphs are models to find the EARLIEST TIME any particular job can START. What do you think is meant in a team by the following statement? You are only as fast as your slowest link.

1. Label the provided graph (using the appropriate vertices and weighted edges).

Task	Time	Prerequisites
Start	0	
A	5	None
B	6	A
C	4	A
D	4	B
E	8	B,C
F	4	C
G	10	D,E,F
Finish		



- a. What is the earliest time this entire graph can be completed?

- b. Two tasks must be completed before “E” can start. Which task gets to “E” first and how long does that task have to wait on the other task?

2. Create a graph and label it appropriately.

Task	Time	Prerequisites
Start	0	
A	1	None
B	2	None
C	3	A, B
D	5	B
E	5	C
F	5	C, D
G	4	D,E
H	4	E, F
Finish		

What is the earliest time this entire graph can be completed?

3. Create a graph and label it appropriately.

Task	Time	Prerequisites
Start	0	
A	3	None
B	2	None
C	2	A
D	3	B
E	4	B
F	1	C, D, E
G	3	D
H	1	F,G
I	3	F
Finish		

What is the earliest time this entire graph can be completed?

4. Fill in and graph: What is the least amount of time needed to prepare dinner? _____

Task	Time (min)	Prerequisite Task
Start	0	None
A Wash hands	1	None
B Defrost hamburger	120	A
C Shape meat into patties	15	B
D Cook hamburgers	14	C
E Peel and slice potatoes	15	A
F Fry potatoes	40	E
G Make salad	15	A
H Set table	5	A
I Serve food	8	D,F,G,H