

**Goal:** Learn how to construct a schedule, given a priority list and **document your thinking**. Learn strategies for making a priority list.

1. Create an associated digraph. Find a critical path and critical time.

label/task	time	dependence
A	2	
B	1	
C	3	
D	4	A
E	6	A,B
F	8	B,C
G	5	E,F

critical path: \_\_\_\_\_

critical time: \_\_\_\_\_

2. Construct a schedule with two processors using the priority list below.

*F E G D C A B*

time		_____
done		_____
ready		_____

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
_____																						
_____																						

How long did this schedule take? \_\_\_\_\_

Is this the best possible? \_\_\_\_\_

How much idle time was there? \_\_\_\_\_

3. Decreasing Time Algorithm