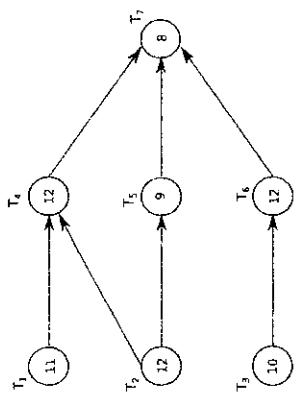


Name _____
Date _____

1. Consider the order-requirement digraph below:

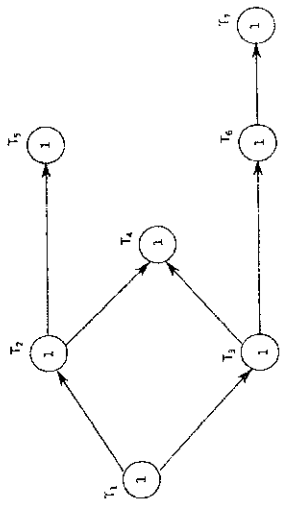


- (a) Find a critical path and compute its length.
- (b) Schedule these tasks on two processors using the list algorithm with each of these priority lists:
 - i. $T_1, T_2, T_3, T_4, T_5, T_6, T_7$
 - ii. $T_2, T_1, T_3, T_6, T_5, T_4, T_7$

(c) How many priority lists are possible? Show how you made this determination

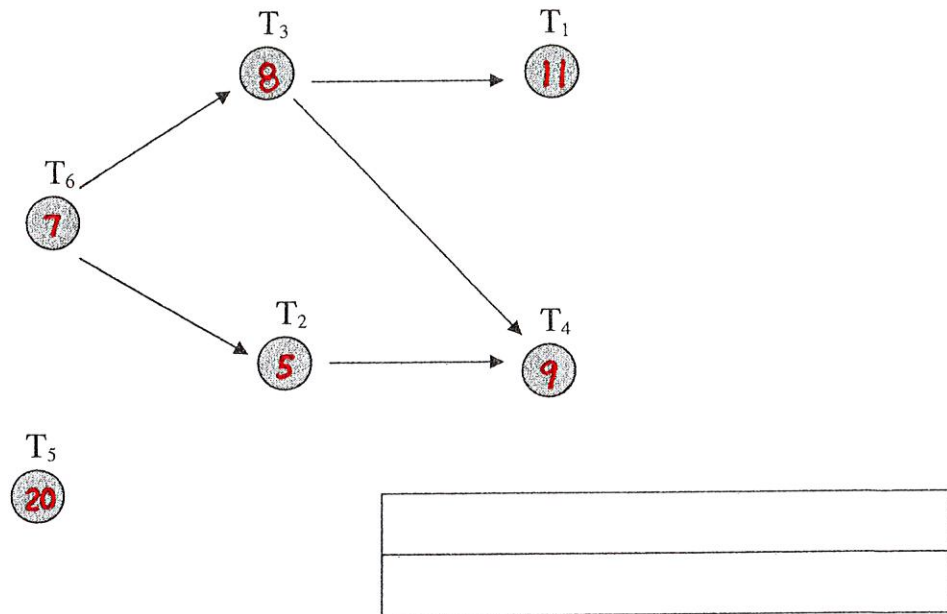
(d) Use priority list $T_1, T_2, T_3, T_4, T_5, T_6, T_7$ to schedule these tasks on three processors.

2. Use the list processing algorithm on the following order requirement digraph



- (a) with two processors using the list $T_1, T_2, T_3, T_4, T_5, T_6, T_7$.
- (b) with two processors using the list $T_1, T_2, T_3, T_4, T_6, T_5, T_7$
- (c) Does either list lead to an optimal schedule?

3. Use the order-requirement digraph to schedule the six tasks on two processors with the following priority list: $T_1, T_2, T_3, T_4, T_5, T_6$



4. Use the order-requirement digraph to schedule the six tasks on two processors with the following priority list: $T_9, T_8, T_7, T_6, T_5, T_4, T_3, T_2, T_1$

