Quiz 3

Show all work: unjustified answers may receive less than full credit.

(10pts.) 1. Use the list-processing algorithm to schedule the tasks in the following order-
requirement digraph on

a two processors using the list \( T_1, \ldots, T_7 \).
b two processors using the list \( T_7, \ldots, T_1 \).
c Is either of the schedules that you obtain optimal? (Check the critical path)

(10pts.) 2. The task times of eight independent tasks \( T_1 \) to \( T_8 \) are 1,2,4,5,7,8,9,10.
a Schedule the tasks on two processors using the list \( T_1, \ldots, T_8 \).
b Schedule the tasks on two processors using the list \( T_8, \ldots, T_1 \).
c Is either of the schedules that you obtain optimal? If not, find a list that gives an optimal schedule.

(c) (b) which is the decreasing-time-algorithm is optimal.
Tasks completed simultaneously with no idle time-can't beat that!