

IE 516 – Manufacturing Planning and Control

Fall 2013

Home Work # 2

Q1. Problem 3.1, 3.2 3.6, 3.7, 3.8, and 3.10 form Pinedo Book.

Q2. Show that $L_{\max} = T_{\max} = T_j$.

Q3. Consider the problem $1 / r_j, pmpt / L_{\max}$. Determine the optimal schedule and prove its optimality.

Q4. Consider $1 \parallel w_j T_j$ Prove or disprove the following statement:

If $w_j/p_j > w_k/p_k$,

$p_j < p_k$,

and $d_j < d_k$,

then there exists an optimal sequence in which job j appears before job k .