

ISYE 474/574 Scheduling and Logistics (Spring 2026)
Assignment 2

1. Consider the instance in the given table for $1 \parallel \sum U_j$. Find all optimal sequences.

<i>j</i>	1	2	3	4	5	6	7	8	9	10
<i>p_j</i>	7	3	5	8	2	6	4	9	3	10
<i>d_j</i>	10	32	12	18	22	20	24	30	28	15

2. Consider the instance in the given table for $1|r_j|L_{\max}$. Find all optimal sequences.

<i>j</i>	1	2	3	4	5	6	7
<i>r_j</i>	0	2	3	5	10	12	15
<i>p_j</i>	4	3	2	5	2	4	3
<i>d_j</i>	10	8	16	14	15	20	22

3. Consider the instance in the given table for $1 \parallel \sum T_j$. Find all optimal sequences.

<i>j</i>	1	2	3	4	5	6	7	8	9	10
<i>p_j</i>	4	9	3	7	2	10	5	8	6	4
<i>d_j</i>	8	15	18	20	22	30	35	40	45	48

4. Consider the instance in the given table for $1 \parallel \sum w_j T_j$. Find all optimal sequences.

<i>j</i>	1	2	3	4	5	6	7	8
<i>p_j</i>	5	8	3	2	10	4	6	7
<i>d_j</i>	10	15	12	20	25	22	30	18
<i>w_j</i>	10	4	15	1	30	8	12	20