

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

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

$j$	1	2	3	4	5	6	7	8	9	10
$p_j$	7	3	5	8	2	6	4	9	3	10
$d_j$	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.

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

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

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

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

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