

Johnson's Rule Job Shop Scheduling – Job Info

Job	Operation #1	Operation #2	Machine for Operation #1	Machine for Operation #2	Time for Operation #1	Time for Operation #2
1	A1	A2	M1	M2	3	4
2	B1	B2	M1	M2	6	5
3	C1	C2	M1	M2	4	5
4	D1	D2	M1	M2	3	2
5	E1	E2	M1	M2	4	3
6	F1	F2	M1	M2	2	3
7	G1	G2	M1	M2	7	6
8	H1	H2	M1	M2	5	6
9	I1	I2	M1	M2	5	4
10	J1	J2	M1	M2	6	7
11	K1	K2	M1	M2	12	2

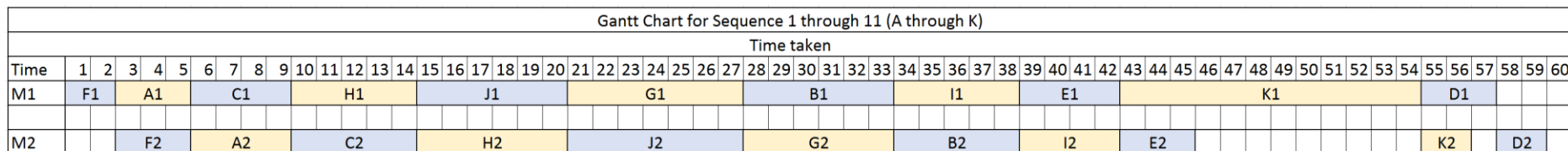
Machine Schedule – Machine 1

Machine 1					
Job #	Job ID	Operation ID	Duration	Start	Finish
1	6	F1	2	0	2
2	1	A1	3	2	5
3	3	C1	4	5	9
4	8	H1	5	9	14
5	10	J1	6	14	20
6	7	G1	7	20	27
7	2	B1	6	27	33
8	9	I1	5	33	38
9	5	E1	4	38	42
10	11	K1	12	42	54
11	4	D1	3	54	57

Machine Schedule – Machine 2

Machine 2					
Job #	Job ID	Operation ID	Duration	Start	Finish
1	6	F2	3	2	5
2	1	A2	4	5	9
3	3	C2	5	9	14
4	8	H2	6	14	20
5	10	J2	7	20	27
6	7	G2	6	27	33
7	2	B2	5	33	38
8	9	I2	4	38	42
9	5	E2	3	42	45
10	11	K2	2	54	56
11	4	D2	2	57	59

Gantt Chart



The Gantt chart for the sequence 6-1-3-8-10-7-2-9-5-11-4. The value of make-span is 59.