END3760 Scheduling Homework

There is a 5 jobs 3 machines flow shop problem.

	M1	M2	M3
J1	27	10	8
J2	12	9	10
J3	11	10	8
J4	8	13	12
J5	14	12	9

The processing times of the jobs are given.

- 1. Try to develop a new heuristic methodology to solve the flow shop problem.
 - Explain the idea and basis of your methodology. (10 p)
 - Show the steps and solution algorithm of your methodology. (20 p)
 - Solve the problem with your proposed methodology and find the sequence and Cmax according to your proposed methodology. (40 p)
- 2. Find the optimal solution of the problem. (20p)
- 3. Compare the optimal result with your proposed methodology and calculate the effectiveness of your proposed methodology. (10p)