



Name:

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There are bunch of jobs to be processed on 2 machines; A & B. Some jobs are to be processed only on machine A, some only on machine B, some are to be processed on both machines in the order A then B, and finally some jobs are to be processed on both machines in the order B then A. Find the optimum order of jobs on both machines to minimize the total processing time (Hint: Use Johnson rule only with the jobs that require the two machines processing).

| Job | Machine (A) | Machine (B) | Order |
|-----|-------------|-------------|-------|
| 1   | 20          | 0           | A     |
| 2   | 70          | 40          | A → B |
| 3   | 30          | 60          | A → B |
| 4   | 0           | 70          | B     |
| 5   | 10          | 30          | A → B |
| 6   | 30          | 10          | B → A |
| 7   | 20          | 70          | B → A |
| 8   | 0           | 40          | B     |
| 9   | 40          | 0           | A     |