

Assignment

John has a scheduled delivery task that must be completed within the next three days. The task list contains delivery jobs that have a specific duration and a corresponding profit. The details of the task list are outlined below:

1. Delivery job with 2-hour duration and a profit of 150 Rs.
2. Delivery job with 1-hour duration and a profit of 100 Rs.
3. Delivery job with 3-hour duration and a profit of 500 Rs.
4. Delivery job with 5-hour duration and a profit of 300 Rs.
5. Delivery job with 2-hour duration and a profit of 100 Rs.
6. Delivery job with 6-hour duration and a profit of 1,000 Rs.
7. Delivery job with 4-hour duration and a profit of 300 Rs.
8. Delivery job with 3-hour duration and a profit of 200 Rs.

John wants to maximize his profit for the next three days, working 6 hours per day. In order to do this, he must decide which deliveries to attend to each day. It is important to note that each delivery can only be done once.

To solve this problem, you will need to declare the decision variables, parameters, objective function, and constraints. Once these are defined, you can find the scheduling of deliveries.

The objective is to find the most optimal scheduling of deliveries so that the total profit is maximised.

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