

Optimizacion de recursos casa Monarca

Sets, Parameters, and Decision Variables

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Definicion del Modelo

Sets

- I : set of resources
- J : set of activities

Parameters

- a_{ij} : units of resource i required per unit of activity j
- b_i : availability of resource i
- c_j : profit (or cost) per unit of activity j

Decision Variables

- x_j : amount of activity j to perform

Objective and Constraints

Objective Function

$$\max \sum_{j \in J} c_j x_j$$

Constraints

$$\sum_{j \in J} a_{ij} x_j \leq b_i \quad \forall i \in I$$

$$x_j \geq 0 \quad \forall j \in J$$