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| Constraints | 1 | | |
|---|---------------------------------|--------------------|--|
| Supply limit at plant <i>i</i> : | $\sum_{i} X_{ij} \le a$ | $_{i}$ $\forall i$ | |
| Demand at market <i>j</i> : | $\sum_{i}^{j} X_{ij} \ge b_{j}$ | $_{j}$ $\forall j$ | |
| | $X_{ij} \ge 0$ | $\forall i, j$ | |
| Objective Function | | | |
| Minimise $\sum_{i} \sum_{j} c_{ij} \lambda$ | K _{ij} | | |
| | | | |

| | | Markets | | |
|-----------|----------|-----------------------|--------|----------|
| Plants | New York | Chicago | Topeka | Supplies |
| | | (Distances '000 m) | | |
| Seattle | 2.5 | 1.7 | 1.8 | 350 |
| San Diego | 2.5 | 1.8 | 1.4 | 600 |
| Demands | 325 | 300 | 275 | |

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| SETS | Declaration |
|--------------------------------------|--|
| 5215 | Assignment of Members |
| Date (DADAMETEDS TADLES SCALADS) | Declaration |
| Data (PARAIVIETERS, TADLES, SCALARS) | Assignment of Values |
| | Declaration |
| VARIABLES | Assignment of Type |
| | (optional) Assignment of bounds/initial values |
| FOULTIONS | Declaration |
| EQUATIONS | Definition |
| MODEL and SOLVE statements | |
| (optional) DISPLAY statements | |











