Symbols

Sets

Name	Domains	Description
factories	*	
clients	*	

Parameters

Name	Domains	Description
offer	factories	
demand	clients	
cost	factories,clients	

Variables

Name	Domains	Description
x	factories,clients	

Equations

Name	Domains	Description
supply_equation	factories	
demand_equation	clients	

Model Definition

min $\sum_{factories,clients} cost_{factories,clients} \cdot x_{factories,clients}$
s.t.

$supply\_equation_{factories}$

$$\sum_{clients} x_{factories,clients} \leq offer_{factories} \qquad \forall factories$$

$demand\_equation_{clients}$

$$\sum_{factories} x_{factories,clients} \geq demand_{clients} \qquad \forall clients$$

$$x_{factories,clients} \geq 0 \ \forall factories, clients$$