

x_{11}

x_{12}

x_{21}

x_{22}

$$\begin{aligned}
 \min \quad & 50x_{11} + 30x_{12} + 40x_{21} + 25x_{22} \\
 \text{s.t.} \quad & x_{11} + x_{12} + x_{21} + x_{22} = 500 \\
 & x_{21} + x_{22} = 200 \\
 & x_{11} + x_{12} = 200 \\
 & x_{11} + x_{21} = 300 \\
 & x_{11} = 0.5(x_{11} + x_{12}) \\
 & x_{21} = 0.6(x_{21} + x_{22}) \\
 & x_{ij} \geq 0 \quad (i = 1, 2, j = 1, 2)
 \end{aligned}$$

