

■ LP Formulation

$$\text{Max} \quad 5x_1 + 7x_2$$

$$\begin{aligned} \text{s.t.} \quad & x_1 \leq 6 \\ & 2x_1 + 3x_2 \leq 19 \\ & x_1 + x_2 \leq 8 \\ & x_1, x_2 \geq 0 \end{aligned}$$