The LP:

$$\max \begin{bmatrix} 0 & 1 & 3 & 0 \end{bmatrix} x + 0$$

s.t.

$$\begin{bmatrix} 1 & 1 & 2 & 0 \\ 0 & 1 & 1 & 1 \end{bmatrix} x = \begin{bmatrix} 2 \\ 5 \end{bmatrix}$$

$$x \geq \mathbb{O}$$

Written in canonical form with the basis $B = \{1, 3\}$ is:

$$\max \begin{bmatrix} -1. & 0. & 1. & 0. \end{bmatrix} x + 2.0$$

s.t.

$$\begin{bmatrix} 1. & 1. & 2. & 0. \\ -1. & 0. & -1. & 1. \end{bmatrix} x = \begin{bmatrix} 2. \\ 3. \end{bmatrix}$$

$$x \geq \mathbb{O}$$