$\min c^\top x$ subject to $Ax = b$, $x \geq 0$ where

$$A = \begin{bmatrix} \qquad\qquad\qquad \end{bmatrix}, \quad b = \begin{bmatrix} \quad \end{bmatrix}, \quad c = \begin{bmatrix} \quad \end{bmatrix}$$

$$\mathcal{B} = \left\{ \qquad\qquad \right\}, \quad B = \begin{bmatrix} \qquad\qquad \end{bmatrix}, \quad c_B = \begin{bmatrix} \quad \end{bmatrix}, \quad \underline{B x_B = b} \implies x_B = \hat{b} = \begin{bmatrix} \quad \end{bmatrix}$$

$$\mathcal{N} = \left\{ \qquad\qquad \right\}, \quad N = \begin{bmatrix} \qquad\qquad \end{bmatrix}, \quad c_N = \begin{bmatrix} \quad \end{bmatrix}$$

$$\underline{B^\top y = c_B} \implies y = \begin{bmatrix} \quad \end{bmatrix} \quad \implies \quad \underline{\hat{c}_N = c_N - N^\top y} = \begin{bmatrix} \quad \end{bmatrix}$$

$\boxed{\hat{c}_N \geq 0 \text{ ?: stop with optimum}}$ $\quad \hat{c}_N \xrightarrow[\text{min}]{\text{index of}} \quad t = \boxed{\quad} \to \underline{B\hat{A}_t = A_t} \implies \hat{A}_t = \begin{bmatrix} \hat{a}_{1,t} \\ \vdots \\ \hat{a}_{m,t} \end{bmatrix} = \begin{bmatrix} \quad \end{bmatrix}$

$\boxed{\hat{A}_t \leq 0 \text{ ?: stop, unbounded}}$ $\quad \left\{ \frac{\hat{b}_i}{\hat{a}_{i,t}} \right\} = \left\{ \qquad\qquad\qquad \right\} \xrightarrow[\text{min over } \hat{a}_{i,t} > 0]{\text{index of}} \quad s = \boxed{\quad}$

$$\mathcal{B} = \left\{ \qquad\qquad \right\}, \quad B = \begin{bmatrix} \qquad\qquad \end{bmatrix}, \quad c_B = \begin{bmatrix} \quad \end{bmatrix}, \quad \underline{B x_B = b} \implies x_B = \hat{b} = \begin{bmatrix} \quad \end{bmatrix}$$

$$\mathcal{N} = \left\{ \qquad\qquad \right\}, \quad N = \begin{bmatrix} \qquad\qquad \end{bmatrix}, \quad c_N = \begin{bmatrix} \quad \end{bmatrix}$$

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$\boxed{\hat{c}_N \geq 0 \text{ ?: stop with optimum}}$ $\quad \hat{c}_N \xrightarrow[\text{min}]{\text{index of}} \quad t = \boxed{\quad} \to \underline{B\hat{A}_t = A_t} \implies \hat{A}_t = \begin{bmatrix} \hat{a}_{1,t} \\ \vdots \\ \hat{a}_{m,t} \end{bmatrix} = \begin{bmatrix} \quad \end{bmatrix}$

$\boxed{\hat{A}_t \leq 0 \text{ ?: stop, unbounded}}$ $\quad \left\{ \frac{\hat{b}_i}{\hat{a}_{i,t}} \right\} = \left\{ \qquad\qquad\qquad \right\} \xrightarrow[\text{min over } \hat{a}_{i,t} > 0]{\text{index of}} \quad s = \boxed{\quad}$

$$\mathcal{B} = \{ \quad \}, \quad B = \begin{bmatrix} \quad \end{bmatrix}, \quad c_B = \begin{bmatrix} \quad \end{bmatrix}, \quad \underline{Bx_B = b} \implies x_B = \hat{b} = \begin{bmatrix} \quad \end{bmatrix}$$

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$\boxed{\hat{c}_N \geq 0 \text{ ?: stop with optimum}}$ $\quad \hat{c}_N \xrightarrow[\text{min}]{\text{index of}} t = \boxed{\quad} \rightarrow \underline{B\hat{A}_t = A_t} \implies \hat{A}_t = \begin{bmatrix} \hat{a}_{1,t} \\ \vdots \\ \hat{a}_{m,t} \end{bmatrix} = \begin{bmatrix} \quad \end{bmatrix}$

$\boxed{\hat{A}_t \leq 0 \text{ ?: stop, unbounded}}$ $\quad \left\{ \frac{\hat{b}_i}{\hat{a}_{i,t}} \right\} = \{ \quad \} \xrightarrow[\text{min over } \hat{a}_{i,t} > 0]{\text{index of}} s = \boxed{\quad}$

$$\mathcal{B} = \{ \quad \}, \quad B = \begin{bmatrix} \quad \end{bmatrix}, \quad c_B = \begin{bmatrix} \quad \end{bmatrix}, \quad \underline{Bx_B = b} \implies x_B = \hat{b} = \begin{bmatrix} \quad \end{bmatrix}$$

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$\boxed{\hat{A}_t \leq 0 \text{ ?: stop, unbounded}}$ $\quad \left\{ \frac{\hat{b}_i}{\hat{a}_{i,t}} \right\} = \{ \quad \} \xrightarrow[\text{min over } \hat{a}_{i,t} > 0]{\text{index of}} s = \boxed{\quad}$