

$$\begin{aligned} \underline{P} \quad & \max c^T x \\ & \text{s.t. } Ax \leq b \\ & x \geq 0 \end{aligned}$$

$$\begin{aligned} \underline{D} \quad & \min b^T y \\ & \text{s.t. } A^T y \geq c \\ & y \geq 0 \end{aligned} \quad (\Leftrightarrow)$$

$$\begin{aligned} & -\max (-b^T y) \\ & \text{s.t. } -A^T y \leq -c \\ & y \geq 0 \end{aligned}$$

P	D
A	$\Leftrightarrow -A^T$
b	$\Leftrightarrow -c$
c	$\Leftrightarrow -b$

$$c = \begin{pmatrix} -1 \\ \vdots \\ -1 \end{pmatrix}$$

