Consider the following LP:

\[
\begin{align*}
\min & \quad -x_1 - 2x_2 - 3x_3 \\
\text{s.t.} & \quad x_1 \leq 2 \\
& \quad x_2 \leq 2 \\
& \quad x_3 \leq 2 \\
& \quad x_1 + x_2 + x_3 \leq 3
\end{align*}
\]

**Exercise 1.**
Introduce slack variables to bring this LP into standard form.

**Exercise 2.**
Run the simplex algorithm on the standard form from Exercise 1. Start at \(x_1 = x_2 = x_3 = 0\).