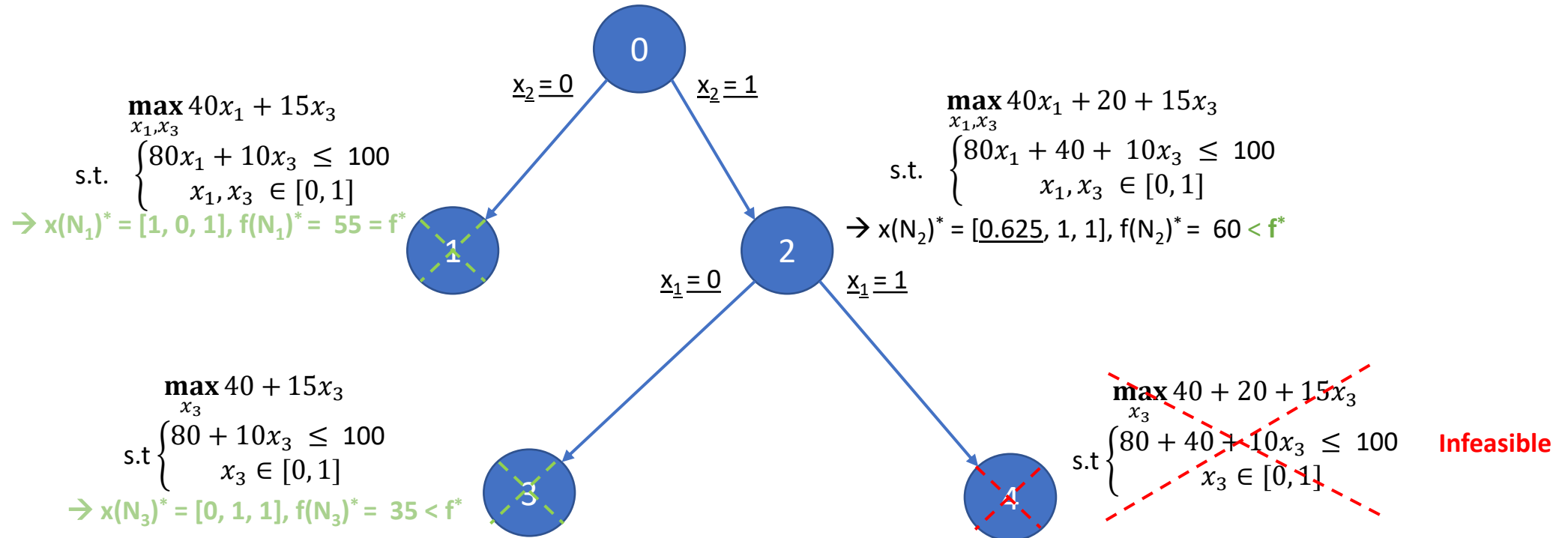


$$\max_{x_1, x_2, x_3} 40x_1 + 20x_2 + 15x_3 \text{ s.t. } \begin{cases} 80x_1 + 40x_2 + 10x_3 \leq 100 \\ x_1, x_2, x_3 \leq 1 \end{cases}$$

$$\max_{x_1, x_2, x_3} 40x_1 + 20x_2 + 15x_3 \text{ s.t. } \begin{cases} 80x_1 + 40x_2 + 10x_3 \leq 100 \\ x_1, x_2, x_3 \in [0, 1] \end{cases}$$

$$\rightarrow x(N_0)^* = [1, \underline{0.25}, 1], f(N_0)^* = 60$$



$f^* = 55$
 $x^* = [1, 0, 1]$