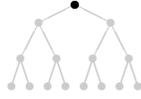


Intro



$$\begin{array}{c|cccc|cc|ccc} x & 1 & 0 & 0 & 0 & 1 & 0 & 1 & 0 & 0 \\ \hline e_1 & 1 & 0 & 0 & 0 & 1 & 0 & 1 & 1 & 1 \\ e_2 & 0 & 1 & 1 & 1 & 1 & 1 & 1 & 0 & 0 \end{array}$$

Root node,  $w = 0$ .



$$\begin{array}{c|cccc|cc|ccc} x & 1 & 0 & 0 & 0 & 1 & 0 & 1 & 0 & 0 \\ \hline e_1 & & & & & 1 & 0 & 1 & 1 & 1 \end{array}$$

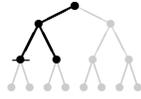
Substitute  $x_1$ ,  $w = 0$ .



$$\begin{array}{c|cccc|cc|ccc} x & 1 & 0 & 0 & 0 & 1 & 0 & 1 & 0 & 0 \\ \hline e_1 & & & & & & & 1 & 1 & 1 \end{array}$$

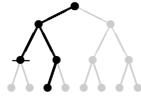
Substitute  $x_2$ ,  $w = 0$ .

Bound condition. Up and Continue.



$$\begin{array}{c|cccc|cc|ccc} x & 1 & 0 & 0 & 0 & & & 1 & 0 & 0 \\ \hline & & & & & & & & & \end{array}$$

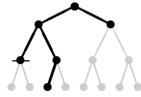
Eliminate  $x_2$ ,  $w = 1$ .



$$\begin{array}{c|cccc|cc|ccc} x & 1 & 0 & 0 & 0 & & & 1 & 0 & 0 \\ \hline & & & & & & & & & \end{array}$$

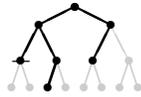
Substitute  $x_3$ ,  $w = 1$ .

Solution found. Up and continue. Bound condition, up and continue.



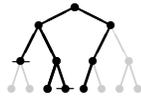
$$\begin{array}{c|cccc|cc|ccc} x & & & & & 1 & 0 & 1 & 0 & 0 \\ \hline e_3 & 1 & 1 & 1 & 1 & 1 & 0 & 1 & 0 & 0 \end{array}$$

Eliminate  $x_1$ ,  $w = 1$ .



$$\begin{array}{c|cccc|cc|ccc} x & & & & & 1 & 0 & 1 & 0 & 0 \\ \hline e_3 & 1 & 1 & 1 & 1 & & & 1 & 0 & 0 \end{array}$$

Substitute  $x_2$ ,  $w = 1$ .



$$\begin{array}{c|cccc|cc|ccc} x & & & & & 1 & 0 & 1 & 0 & 0 \\ \hline e_3 & 1 & 1 & 1 & 1 & & & & & \end{array}$$

Substitute  $x_3$ ,  $w = 1$ .

Bound condition. Up and continue. Weight would increase, so up and continue. Weight would increase, so end. Final tree:

