

9\|17\|08

O - I Programs.

Maximize $3x_1 + 2x_2 - 6x_3 - 4x_4 + 2x_5$

s.t.

$$\begin{aligned} -x_1 + x_2 + 3x_3 + 3x_4 - x_5 &\geq 4 \\ x_1 + x_2 + x_3 + x_4 - 3x_5 &\geq 3 \\ x_1 - 0 \text{ or } 1 \end{aligned}$$

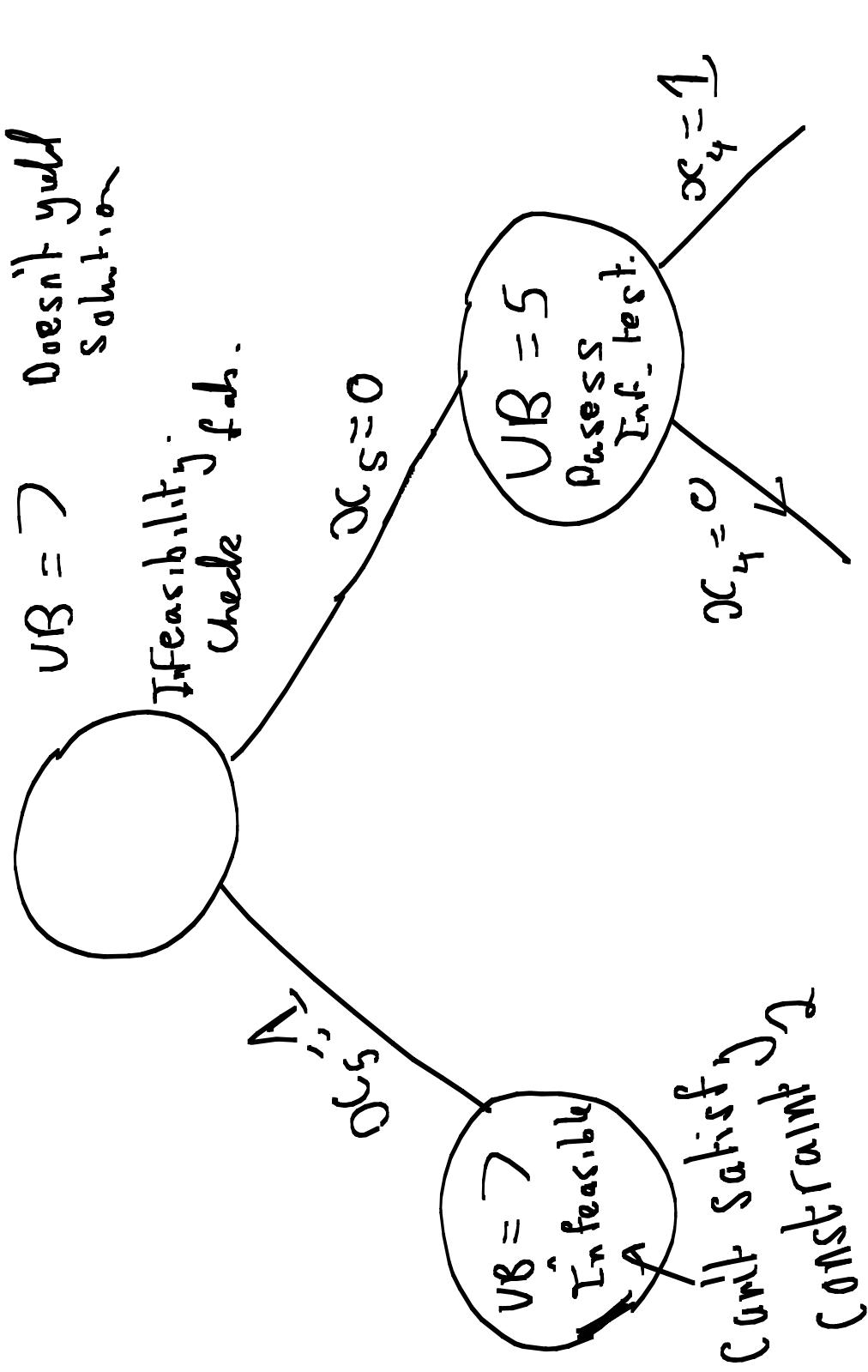
Maximize $3x_1 + 2x_2 - 6x_3 - 4x_4 + 2x_5$

s.t.

$$-x_1 + x_2 + 3x_3 + 3x_4 - x_5 \geq 4$$

$$x_1 + x_2 + x_3 + x_4 - 3x_5 \geq 3$$

$$x_3 = 0 \text{ or } 1$$

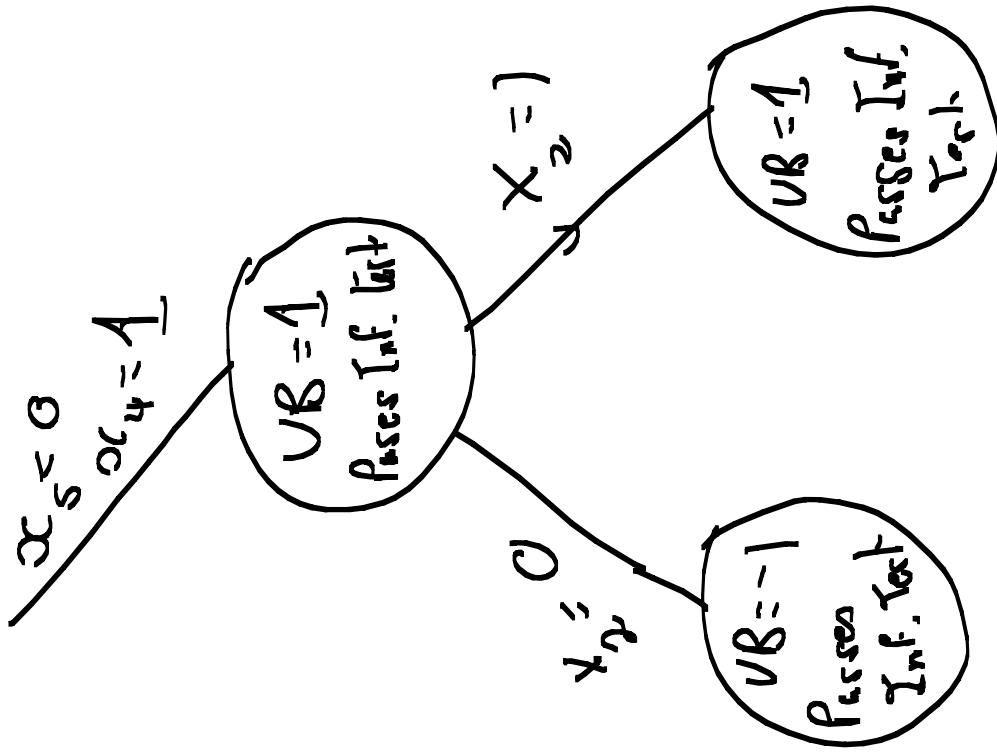
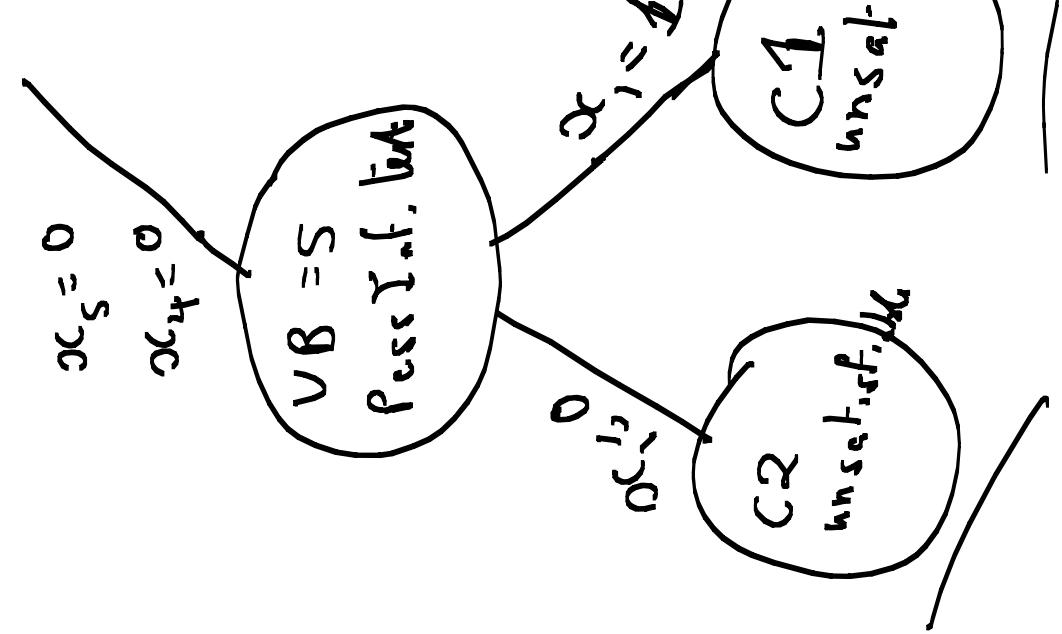


$$\text{Maximize } 3x_1 + 2x_2 - 6x_3 - 4x_4 + 7x_5$$

$$-x_1 + x_2 + 3x_3 + 3x_4 - x_5 \geq 4$$

$$x_1 + x_2 + x_3 + x_4 - 3x_5 \geq 3$$

$$x_5 = 0 = 1$$



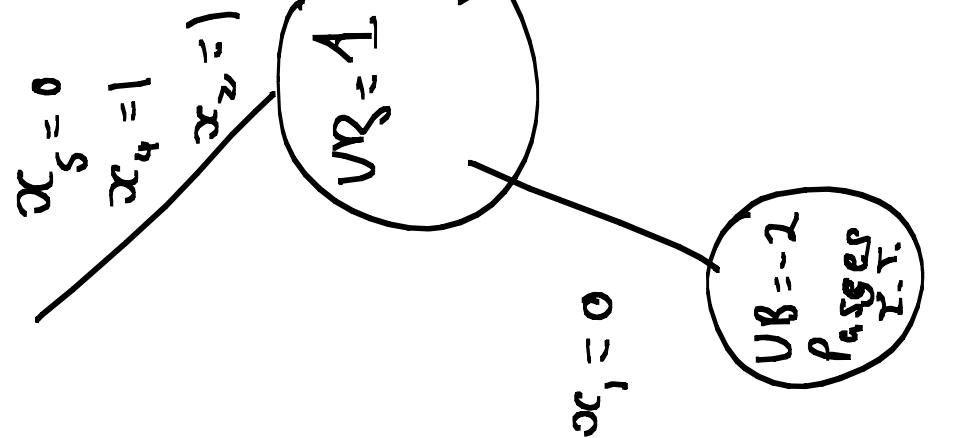
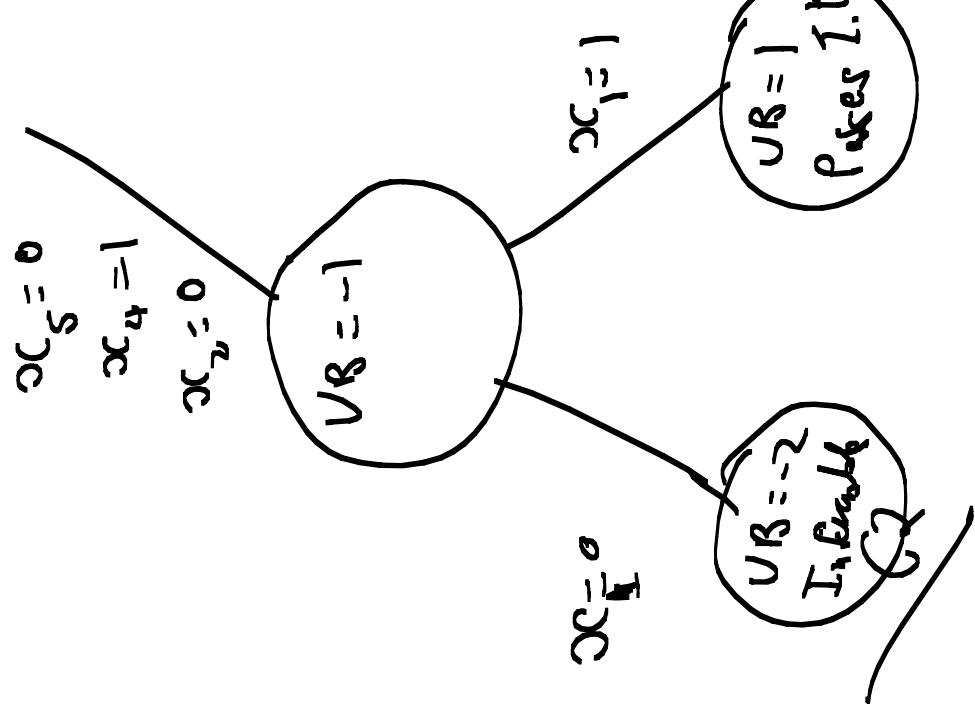
$$\text{Maximize } 3x_1 + 2x_2 - 6x_3 - 4x_4 + 2x_5$$

s.t.

$$-x_1 + x_2 + 3x_3 + 3x_4 - x_5 \geq 4$$

$$x_1 + x_2 + x_3 + x_4 - 3x_5 \geq 3$$

$$x_3 = 0 = 1$$



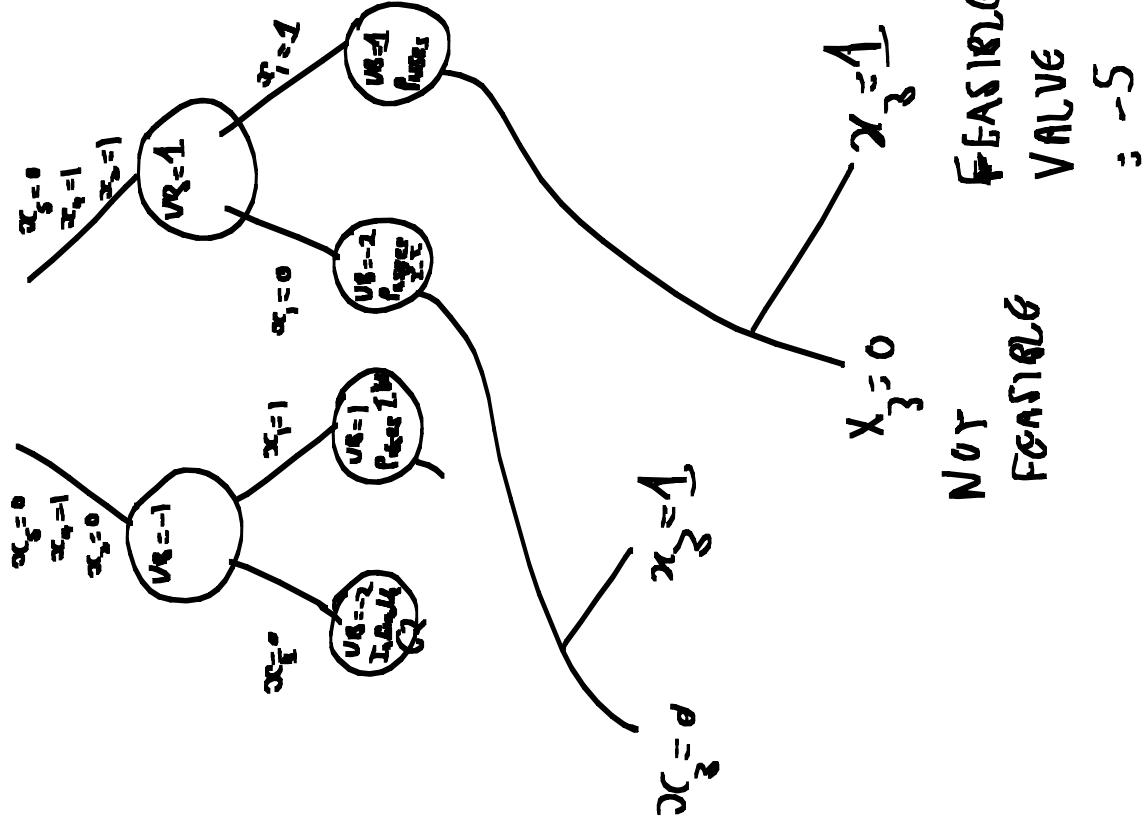
Maximize $3x_1 + 2x_2 - 6x_3 - 4x_4 + 2x_5$

s.t.

$$-x_1 + x_2 + 3x_3 + 3x_4 - x_5 \geq 4$$

$$x_1 + x_2 + x_3 + x_4 - 3x_5 \geq 3$$

$$x_3 = 0 \text{ or } 1$$



NOT
FEASIBLE

FEASIBLE
V5
 $\alpha_j = 5$