9/17/08

0-1 Programs.

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

s.t.

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

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

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

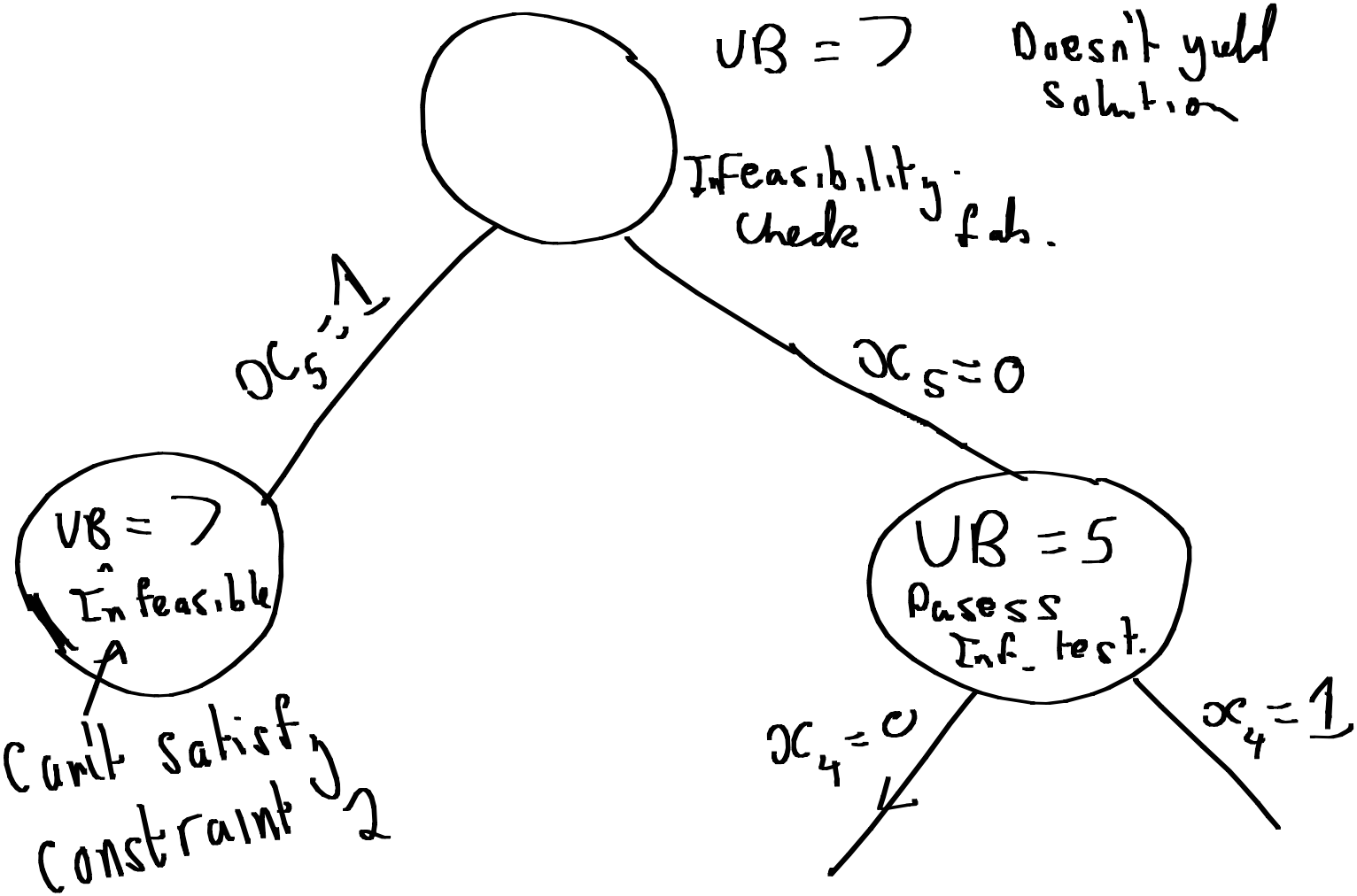
Maximize $3x_1 + 2x_2 - 6x_3 - 4x_4 + 2x_5$

s.t.

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

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

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



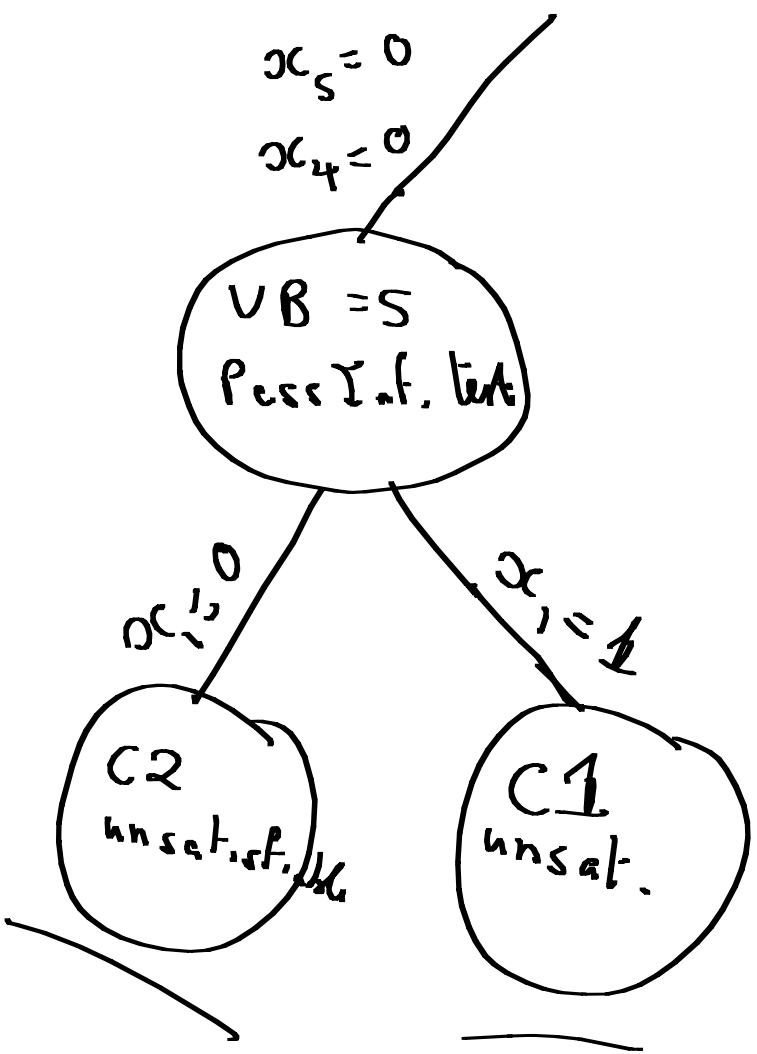
Maximize $3x_1 + 2x_2 - 6x_3 - 4x_4 + 2x_5$

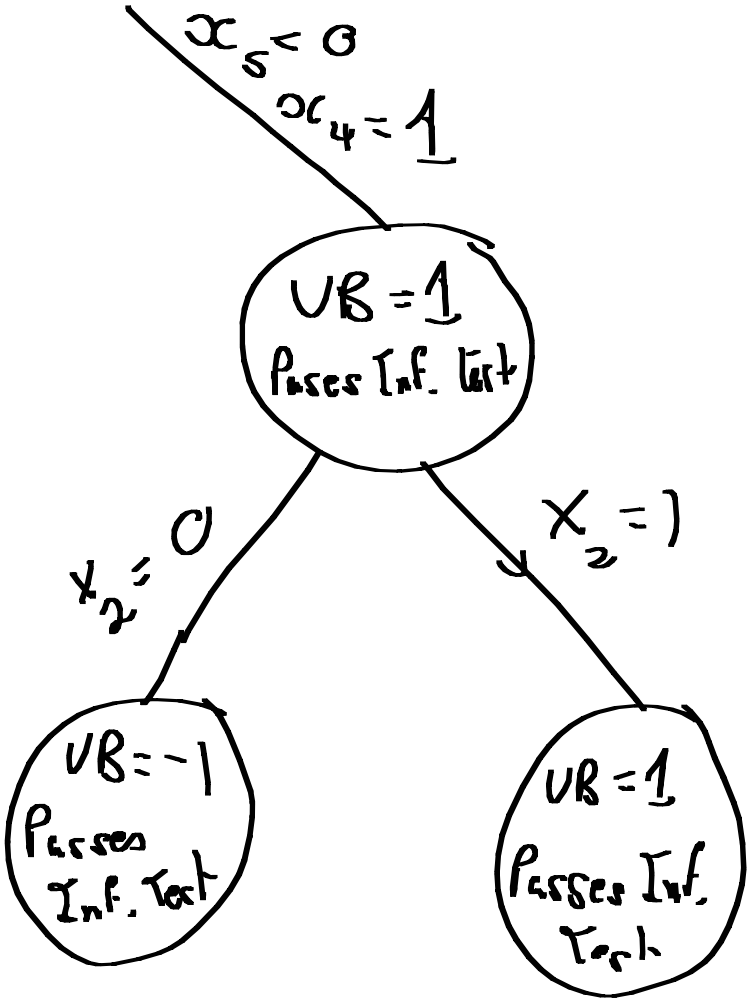
s.t.

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

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

$$x_i = 0 - 1$$





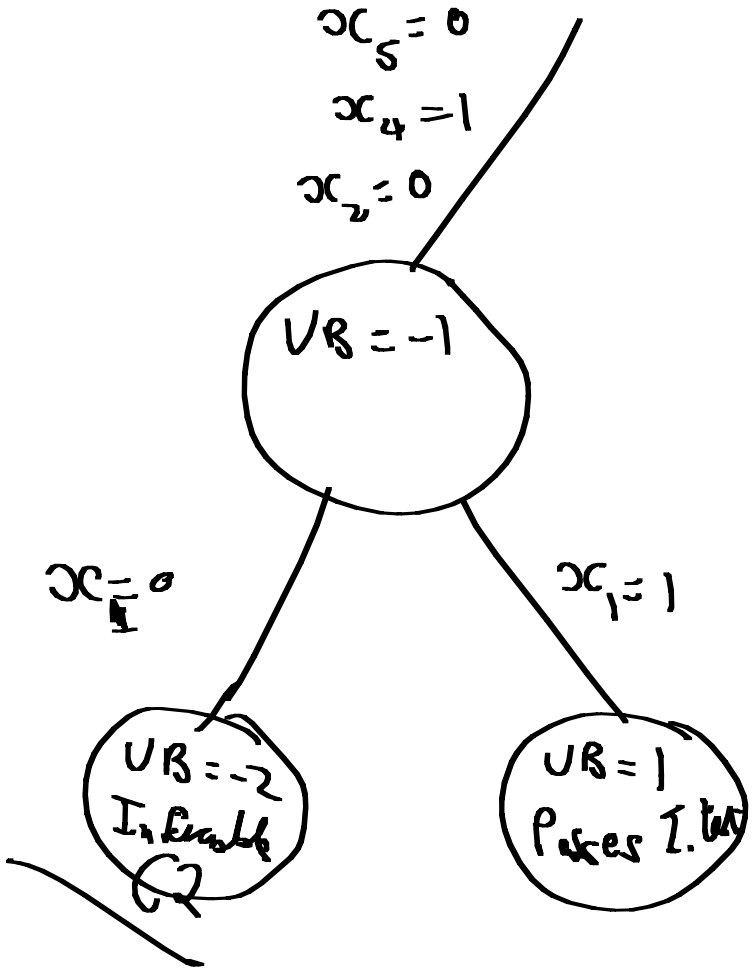
Maximize $3x_1 + 2x_2 - 6x_3 - 4x_4 + 2x_5$

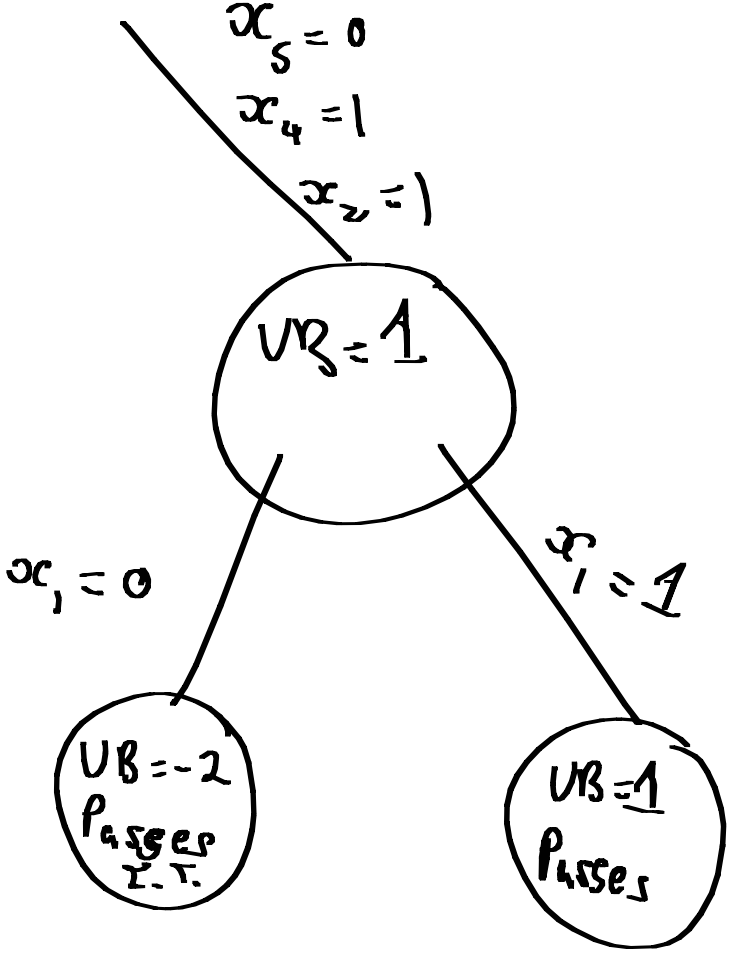
s.t.

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

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

$$x_i = 0 \text{ ou } 1$$





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

s.t.

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

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

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