Optimization assignment — Bala's algorithm 4

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$\min : -15x_1 - 25x_2 - 12x_3 - 10x_4 \qquad 1 : 3x_1 + 6x_2 + 5x_3 + 5x_4 \leqslant 12;\ 2 : 4x_2 + 9x_2 - 2x_3 + x_4 \leqslant 25$

- Branch on x_1. Both solutions feasible. Branch on smaller tentative solution $x_1 = 0$.
- Branch on x_2. Both solutions are feasible. Branch on smaller tentative solution $x_2 = 1$
- Branch of x_3. Both solutions are feasible. Branch on smaller tentative solution $x_3 = 1$.