Example: Simplex Method

- Initial Simplex Tableau

Basis	c_B	x_1	x_2	x_3	s_1	s_2	s_3	
		12	18	10	0	0	0	
s_1	0	2	3	4	1	0	0	50
s_2	0	-1	1	1	0	1	0	0 (* row)
s_3	0	0	-1	1.5	0	0	1	0
z_j		0	0	0	0	0	0	0
$c_j - z_j$		12	18	10	0	0	0	

- Iteration 1
  - Step 1: Determine the Entering Variable
    The most positive $c_j - z_j = 18$. Thus x_2 is the entering variable.

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Roderick S C Wong,Felipe Cucker

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