## The simplex algorithm execution

## Simplex Algorithm

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Let's study the following dictionnary

 $x_1$  enters,  $x_3$  leaves.

After this step, we get the new dictionnary :

$$(D_1): \qquad \begin{cases} x_1 & = & + & 4 & + & x_2 & - & x_3 \\ \hline z & = & + & 4 & + & 2x_2 & - & x_3 \end{cases}$$

 $x_2$  enters, but we don't have any bound on it given by the dictionnary. So the domain is unbounded.