Now, using back substitution we can find x as

$$\Rightarrow \quad a_{mn} \cdot x_m = b_m'$$

$$x_m = \frac{b_m'}{a_{mn}}$$

$$\Rightarrow a_{n-1 \, n-1} \cdot x_{n-1} + a_{n-1 \, n} \, x_n = b_{n-1}'$$

$$\Rightarrow \quad x_{n-1} = \left(\frac{b_{n-1}' - a_{n-1 \, n} \, x_n}{a_{n-1 \, n-1}} \right)$$

$$\begin{array}{c} | \\ | \\ \vdots \end{array}$$

Therefore, we can find x vector that is the solution to

$$Ax = B.$$