## LU Decomposition to solve system equation

3. Solve 
$$L\vec{y} = (P)\vec{B}$$
 to get  $\vec{y}$   
4. Solve  $U\vec{x} = \vec{y}$  to get  $\vec{x}$ 

4. Solve 
$$U\vec{x} = \vec{y}$$
 to get  $\vec{x}$