



$$\begin{bmatrix} \Delta u(1) \\ \Delta u(2) \\ \Delta u(3) \\ \vdots \\ \vdots \\ \vdots \\ \Delta u(N) \end{bmatrix} = \begin{bmatrix} u_{\text{old}} \\ u(1) \\ u(2) \\ \vdots \\ \vdots \\ \vdots \\ u(9) \end{bmatrix} \begin{matrix} \text{Red *} \\ \text{Blue *} \\ \text{Green *} \\ \vdots \\ \vdots \\ \vdots \\ \text{Magenta *} \end{matrix} - \begin{bmatrix} u(1) \\ u(2) \\ u(3) \\ \vdots \\ \vdots \\ \vdots \\ u(N) \end{bmatrix} \begin{matrix} \text{Blue *} \\ \text{Green *} \\ \text{Orange *} \\ \vdots \\ \vdots \\ \vdots \\ \text{Yellow *} \end{matrix}$$