We need to solve M. u" = u", where

The goal of forward substitution is to manipulate the system into the form

$$\begin{bmatrix} d_0 & -\lambda & 0 & 0 & 0 & \dots \\ 0 & d_1 & -\lambda & 0 & 0 & \dots \\ 0 & 0 & d_2 & -\lambda & 0 & \dots \\ 0 & 0 & 0 & d_3 & -\lambda & \dots \end{bmatrix} \cdot \underline{u}^{n+1} = \underline{u}^n$$

1. What is do ?
2. What is do?

3. What is \tilde{u}_{1}^{n} ?

4. What is d_{j} ? What is \tilde{u}_{j}^{n} ?

Once all di and \tilde{u}_{j}^{n} are known, we find via backsubstitution u_{N-1}^{n+1} u_{N-2}^{n+1} ...

What is UN-1?

What is unin ?

what is cuit ?