Problem 1. What does a left multiplication by a diagonal matrix D to a dense matrix A? How about right-multiplication?

$$DA = \begin{bmatrix} aA_{11} & aA_{12} & aA_{13} \\ bA_{21} & bA_{22} & bA_{23} \\ cA_{13} & cA_{32} & cA_{33} \end{bmatrix}$$

A=D-IAD 2s a Symmetric matrix

$$D^{-1} = \begin{bmatrix} \Delta & b & 1/L \end{bmatrix}$$

$$D^{-1}A = \begin{bmatrix} \frac{3}{4}a & \frac{4}{4}a & 0 \\ -\frac{1}{4}b & \frac{3}{4}c & \frac{3}{4}c \end{bmatrix}$$

$$D^{-1}A = \begin{bmatrix} \frac{3}{4}a & \frac{4}{4}a & 0 \\ -\frac{1}{4}b & \frac{3}{4}c & \frac$$

$$D^{-1}AD = \begin{bmatrix} \frac{3}{a} & \frac{4}{a} & 0 & 0 & 0 \\ -\frac{1}{b} & 0 & 0 & 0 & 0 \\ 0 & \frac{7}{c} & \frac{4}{a} & 0 & 0 & 0 \\ 0 & \frac{7}{c} & \frac{4}{a} & \frac{1}{a} & 0 & 0 & 0 \\ 0 & \frac{7}{c} & \frac{4}{a} & \frac{1}{a} & \frac{7}{c} & \frac{4}{a} & \frac{1}{a} & \frac{7}{c} & \frac{1}{a} & \frac{1}{a$$

$$LL^{T} = \begin{bmatrix} x_1 \\ y_1 & x_2 \\ y_2 & x_3 \\ y_3 & x_4 \end{bmatrix} \begin{bmatrix} x_1 & y_1 \\ x_2 & y_2 \\ x_3 & x_4 \end{bmatrix}$$

Last element is y3+x4
not x42, spend two
hour to figure of our

$$7 [n] = \sqrt{a}[n]$$
operator_r \(\pm \) |
for \(\pa \). \(\pa \) n \([2 \cdots \cdots \cdots - 1] \):
$$7 [i-1] = \frac{b[i-1]}{x[i-1]}$$
operator_\(\alpha \) + = |
$$temp = 9[i-1] * y[i-1]$$
operator_\(\alpha \) + = |
$$temp = 0[i] - temp$$
operator_\(\alpha \) + = |
$$x[i] = \sqrt{temp}$$
operator_\(\alpha \) + = |

=> operator
$$r = 2 + n - 2$$

operator $-\alpha = 3(n - 1)$
= $3n - 3$

problem 3 If the boundary condition is not clear, the whole system should be written as (2) there are 9 equations, and only one node is not at boundary, U,1 = 5 Does the ambiguous corn points matter?

for solving center points, No. But the conditions are against each other. Inother word, this problem is not continue at corner

We can still calculate the Unsido nodes Values without using those ambiguous points