Let's say $\frac{\partial T}{\partial x} = 0$ at top (iso thermal)

$\Downarrow$

$T_6 = T_5$

Last Equation $\Rightarrow$ $T_4 - 2T_5 + T_6 = \partial x^2 \frac{S_5}{\lambda_5}$

$T_6 = T_5$

$T_4 - 2T_5 + T_5 = \partial x^2 \frac{S_5}{\lambda_5}$

$T_4 - T_5 = \partial x^2 \frac{S_5}{\lambda_5}$

$$\begin{bmatrix} 1 & -2 & 1 & 0 & 0 & 0 \\ 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 0 & 1 & -2 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 & 0 \end{bmatrix} \begin{bmatrix} T_0 \\ T_1 \\ T_2 \\ T_3 \\ T_4 \\ T_5 \\ T_6 \end{bmatrix} = \begin{bmatrix} 0 \\ \partial x^2 \frac{S_1}{\lambda_1} \\ \partial x^2 \frac{S_2}{\lambda_2} \\ \partial x^2 \frac{S_3}{\lambda_3} \\ \partial x^2 \frac{S_4}{\lambda_4} \\ \partial x^2 \frac{S_5}{\lambda_5} \\ 0 \end{bmatrix}$$

boundary!

$$\begin{aligned} &\ddots \\ &c_{n-2} \cdot x_{n-2} \\ a_{n-1} x_{n-2} + {} & b_{n-1} \cdot x_{n-1} + c_{n-1} \cdot x_n = \partial_{n-1} \\ & a_n \cdot x_{n-1} + b_n \cdot x_n = \partial_n \end{aligned}$$

want $x_n = x_{n-1}$

$a_n \cdot x_{n-1} + b_n \cdot x_n = \partial_n$

$a_n = -1$, $b_n = 1$, $\partial_n = 0$

$-x_{n-1} + x_n = 0$

$x_n = x_{n-1}$

$$\frac{\partial T}{\partial t} = \lambda \frac{\partial^2 T}{\partial x^2} + S$$

$$\frac{T_n^i - T_{n-1}^i}{\Delta t} = \frac{\lambda}{\partial x^2} \left(T_n^{i+1} + T_n^{i-1} - 2T_n^i \right) + S$$

$$T_n^i = T_{n-1}^i + \Delta t S + \frac{\Delta t \lambda}{\partial x^2} \left(T_n^{i+1} + T_n^{i-1} - 2T_n^i \right)$$

Let $\boxed{k = \frac{\Delta t \lambda}{\partial x^2}}$

$$T_n^i (1 + 2k) - k T_n^{i+1} - k T_n^{i-1} = T_{n-1}^i + \Delta t S$$

$$\boxed{\begin{aligned} a &= -k \\ b &= 1 + 2k \\ c &= -k \\ \partial &= T_{n-1}^i + \Delta t S \end{aligned}}$$

BCs $\Rightarrow$ Bottom $\Rightarrow$ $b = 1$, $a = c = 0$, $\partial = V_{bottom}$

Top $\Rightarrow$ $c = 0$, $T_n^i = T_n^{i-1}$ $\Rightarrow$

$a_n = -1$

$b_n = +1$