Calculate the temperature distribution in the rectangular plate with unit length with the following methods:

1) Point Gauss-Seidel
2) Line Gauss-Seidel
3) Alternating Direct Implicit

For all methods, the step size are specified as:

$\Delta x = 0.2$ $\qquad\qquad$ $\Delta y = 0.2$ $\qquad\qquad$ $ErrMax = 0.01$

$$\frac{\partial^2 T}{\partial x^2} + \frac{\partial^2 T}{\partial y^2} = 0$$