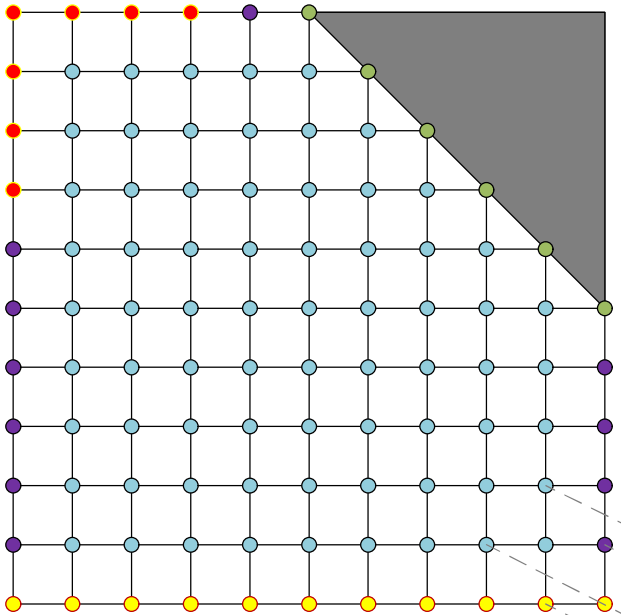
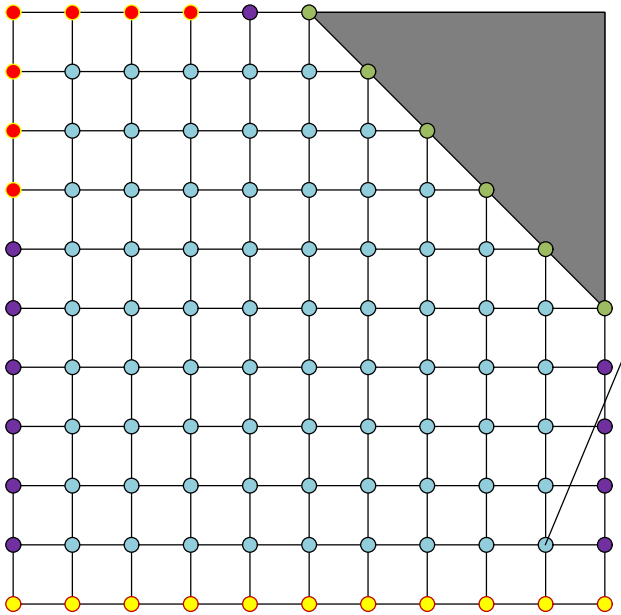
Initial Matrix, [ITERATION K=0]



Calculations of the k+l iteration uses surrounding values of the previously executed matrix.

Initial Matrix, [ITERATION K+1]



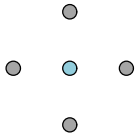
Heat Sources

300 ˚C

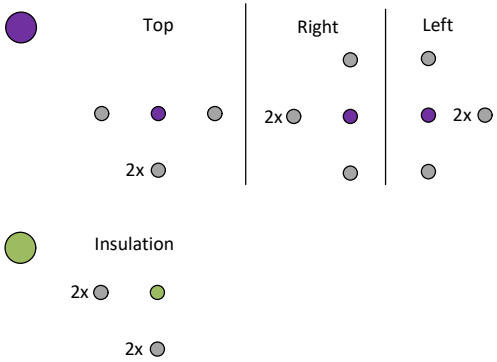
70 ˚C

Calculated Nodes

Average of surrounding nodes.



Special Case Calculated Nodes, average of the surrounding nodes and multiplication factor.



Calculations continue until all cells meet the requirement:
$ABS(TEMP_{k+1}[i][j]-TEMP_k[i][j])) < 0.05$

This requirement does not initialize at the start of the code due to many cells in the center will remain at 0 for quite a few iterations, depending on matrix size.