



$$\dots + \frac{1}{h^2} \phi_{i-1,j} = q_{i,j}$$

```

01 function applyStencil( A, b, i, j)
02   row = index(i, j)
03
04   ...
05   A[row, index(i-1, j)] = 1/(h*h)
06   ...
07   b[row] = q[i, j]
08

```

Arrows indicate the mapping from the AST nodes to the code: the `phi_{i-1,j}` node maps to the assignment in line 05, and the `q_{i,j}` node maps to the assignment in line 07.