

$$\begin{array}{c}
 0 \quad 1 \quad 2 \quad 3 \quad \dots \quad n-2 \quad n-1 \\
 \begin{pmatrix}
 0 & (0,0) & (0,1) & (0,2) & (0,3) & \dots & (0,n-2) & (0,n-1) & |S_0 \\
 1 & (1,1) & (1,2) & (1,3) & \dots & (1,n-2) & (1,n-1) & |S_1 \\
 2 & & (2,2) & (2,3) & \dots & (2,n-2) & (2,n-1) & |S_2 \\
 3 & & & (3,3) & \dots & (3,n-2) & (3,n-1) & |S_3 \\
 & & & & \ddots & \vdots & \vdots & \\
 n-2 & & & & & (n-2,n-2) & (n-2,n-1) & |S_{n-2} \\
 n-1 & & & & & & (n-1,n-1) & |S_{n-1}
 \end{pmatrix}
 \end{array}$$

Diagram illustrating a sequence of points (i, j) arranged in rows, indexed by i (rows) and j (columns). The rows are labeled $0, 1, 2, 3, \dots, n-2, n-1$. The columns are labeled $0, 1, 2, 3, \dots, n-2, n-1$. The points are arranged in a grid-like structure, with the last column labeled $|S_i$ for each row i .

Red arrows indicate a path starting from $(0,0)$ and moving horizontally to the right, then diagonally down to the right, and so on, following the sequence of points in the grid.