Algorithm for 2D Linked List Implementation

global matrix [maxrow] [maxcol]

Parameters

Function[]: Create_2D_LL (int i,

int j,

int row,

maximg Node for it row cose

int row,

maxim no of row in matrix

int col,

struct node * current node (pointer to))

(A) Base case: if (ir = row or j > = col) (Out of Bounds
return NULL; in 0-bosed matrix)

Step 1: allocati memory for new node "temp"

Step 2: Intralise the data in "temp" node to mat [i][j] }

{ temp_node > data = mat[i][j] }

Step 3: Initialize Chink) the previol up' links of "temp"

node to current node [curr-node]

{ temp-node > prev = curr-node; }

temp-node > up = curr-node;

B step 4: // Recursive Step

// Recursive step to link the left side Mode with current node

temp-node > next = CREATE_2D_LL (i, j+1, row, col, temp-node);

// Recursive step to link the down side Node with current node

temp-node > down = CREATE_2D_LL (i+1, i, row, col, temp-node);

teturn temp-node // All 4 links Complete