SHOW THE SPARSE MATRIX

#include <stdio.h>

#define MAX 10

void displaySparseMatrix(int matrix[MAX][MAX], int rows, int cols) {

printf("Sparse Matrix Representation:\n");

printf("Row\tColumn\tValue\n");

for (int i = 0; i < rows; i++) {

for (int j = 0; j < cols; j++) {

if (matrix[i][j] != 0) {

printf("%d\t%d\t%d\n", i, j, matrix[i][j]);

}

}

}

}

int main() {

int matrix[MAX][MAX];

int rows, cols;

printf("Enter the number of rows and columns: ");

scanf("%d %d", &rows, &cols);

printf("Enter the elements of the matrix:\n");

for (int i = 0; i < rows; i++) {

for (int j = 0; j < cols; j++) {

scanf("%d", &matrix[i][j]);

}

}

displaySparseMatrix(matrix, rows, cols);

return 0;

}

