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#include<bits/stdc++.h>

using namespace std;

int\*\* createArray(int numRows, int numCols)

{

int\*\* arr = new int\*[numRows];

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

arr[i]= new int[numCols];

}

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

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

arr[i][j]= rand() %100+1;

}

}

return arr;

}

void sortArray(int\*\* list, int row, int col, int sortCol) {

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

for (int j = i + 1; j < row; j++) {

if (list[i][sortCol] > list[j][sortCol]) {

for (int k = 0; k < col; k++) {

swap(list[i][k], list[j][k]);

}

}

}

}

}

int main()

{

int rows, cols;

cout << "Enter the number of rows: ";

cin >> rows;

cout << "Enter the number of cols: ";

cin >> cols;

int\*\* arr = createArray(rows, cols);

cout << "The 2D array contains: " << endl;

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

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

cout << arr[i][j] << " ";

}

cout << endl;

}

cout << "The Sorted array are: " << endl;

int sortCol = 0;

sortArray(arr, rows, cols, sortCol);

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

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

cout << arr[i][j] << " ";

}

cout << endl;

}

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

delete[] arr[i];

}

delete[] arr;

return 0;

}