Quiz 4 - Tuesday

6 points

Nov 5, 2024

Name:

Student Number:

Write functions one to allocate and another one to de-allocate a 3D array with the following dimensions:

- [nRows] specifies the number of rows.
- An array nCols specifies the number of columns for each row; thus, nCols[i] represents the number of columns in the i-th row.
- nDepth represents the depth of each cell in the array, defining the third dimension.

Your function should dynamically allocate memory based on these dimensions and **initialize** all elements to zero.

Example 1:

- Input: nRows = 2, nCols = [3, 2], nDepth = 4
- Explanation: This will create a 3D array with 2 rows. Row 1 has 3 columns, each with a depth of 4 layers (depth). Row 2 has 2 columns, each also with a depth of 4 layers.

IMPORTANT NOTES:

• No need to write int main().