

CAREFULLY & FULLY trace the code below.

```
1.
int[] array1 = {1, 2, 3, 4, 5, 6};           //   nextPos   row   col
int[][] result1 = new int[3][array1.length/3];
int nextPos = 0;
for (int row = 0; row < 3; row++)
    for (int col = 0; col < array1.length/3; col++)
    {
        result1[row][col] = array1[nextPos];
        nextPos++;
    }
```

// Draw the result1 2D array here:

```
2.
int[][] array2 = {{1, 2, 3}, {4, 5, 6}, {7, 8, 9}}; //   row   col
int numRows = array2.length;
int numCols = array2[0].length;
int[][] result2 = new int[numRows][numCols];
for (int row = numRows - 1; row >= 0; row--)
    for (int col = 0; col < numCols; col++)
        result2[row][col] = array2[numRows - row - 1][col];
```

// Draw the result2 2D array here:

```
3.
int[][] array3 = {{1, 2}, {3, 4}, {5, 6}}; //   row   col
int numRows = array3.length;
int numCols = array3[0].length;
int[][] result3 = new int[numCols][numRows];
for (int row = 0; row < numCols; row++)
    for (int col = 0; col < numRows; col++)
        result3[row][col] = array3[numRows - col - 1][row];
```

// Draw the result3 2D array here: