**Transpose matrix**

**class** **Solution** {

**public** **int**[][] transpose(**int**[][] matrix) {

**int**[][] result = **new** **int**[matrix[0].length][matrix.length];

**for** (**int** i = 0; i < matrix.length; i++) {

**for** (**int** j = 0; j < matrix[0].length; j++) {

result[j][i] = matrix[i][j];

}

}

**return** result;

}

}