public class MatrixMultiplication {

public static void main(String[] args) {

int[][] matrix1 = {

{1, 2, 3},

{4, 5, 6},

{7, 8, 9}

};

int[][] matrix2 = {

{10, 11},

{12, 13},

{14, 15}

};

int[][] result = multiplyMatrices(matrix1, matrix2);

System.out.println("Matrix multiplication result:");

printMatrix(result);

}

public static int[][] multiplyMatrices(int[][] matrix1, int[][] matrix2) {

int rows1 = matrix1.length;

int cols1 = matrix1[0].length;

int cols2 = matrix2[0].length;

if (cols1 != matrix2.length) {

System.out.println("Cannot multiply the matrices. Invalid dimensions.");

return null;

}

int[][] result = new int[rows1][cols2];

for (int i = 0; i < rows1; i++) {

for (int j = 0; j < cols2; j++) {

for (int k = 0; k < cols1; k++) {

result[i][j] += matrix1[i][k] \* matrix2[k][j];

}

}

}

return result;

}

public static void printMatrix(int[][] matrix) {

int rows = matrix.length;

int cols = matrix[0].length;

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

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

System.out.print(matrix[i][j] + " ");

}

System.out.println();

}

}

}