//Multiply two matrices

public class MulMatrix {

public static void main(String[] args) {

int r1 = 2, c1 = 3;

int r2 = 3, c2 = 2;

int[][] firstMatrix = { { 2, -2, 5 }, { 3, 0, 4 } };

int[][] secondMatrix = { { 4, 3 }, { -9, 0 }, { 0, 4 } };

int[][] product = multiplyMatrices(firstMatrix, secondMatrix, r1, c1, c2);

displayProduct(product);

}

public static int[][] multiplyMatrices(int[][] firstMatrix, int[][] secondMatrix, int r1, int c1, int c2) {

int[][] product = new int[r1][c2];

for (int i = 0; i < r1; i++) {

for (int j = 0; j < c2; j++) {

for (int k = 0; k < c1; k++) {

product[i][j] += firstMatrix[i][k] \* secondMatrix[k][j];

}

}

}

return product;

}

public static void displayProduct(int[][] product) {

System.out.println("Product of two matrices is: ");

for (int[] row : product) {

for (int column : row) {

System.out.print(column + " ");

}

System.out.println();

}

}

}