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```java
1  package prog17;
2
3  public class MultiplyMatrices {
4
5      public static void main(String[] args) {
6          // TODO Auto-generated method stub
7          int r1 = 2, c1 = 3;
8          int r2 = 3, c2 = 2;
9          int[][] firstMatrix = { {3, -2, 5}, {3, 0, 4} };
10         int[][] secondMatrix = { {2, 3}, {-9, 0}, {0, 4} };
11         int[][] product = multiplyMatrices(firstMatrix, secondMatrix, r1, c1, c2);
12         displayProduct(product);
13     }
14     public static int[][] multiplyMatrices(int[][] firstMatrix, int[][] secondMatrix, int r1, int c1, int c2)
15     {
16             int[][] product = new int[r1][c2];
17             for(int i = 0; i < r1; i++)
18     {
19             for (int j = 0; j < c2; j++)
20     {
21             for (int k = 0; k < c1; k++)
22     {
23                     product[i][j] += firstMatrix[i][k] * secondMatrix[k][j];
24             }
25         }
26     }
27     return product;
28         }
29     public static void displayProduct(int[][] product)
30     {
31             System.out.println("Product of two matrices is: ");
32             for(int[] row : product)
33     {
34             for (int column : row)
35     {
36             System.out.print(column + "    ");
37         }
38             System.out.println();
39         }
40     }
41
42 }
43
```

```
<terminated> MultiplyMatrices [Java Application] C:\Users\Srinivas\.p2\poc
Product of two matrices is:
24      29
6       25
```

r1, c1,

] second