

Arrays 2D - Matrix Multiplication

Problem

Submissions

Leaderboard

Discussions

Submitted 3 days ago • Score: 100.00

Status: **Accepted**

✓	Test Case #0	✓	Test Case #1	✓	Test Case #2
✓	Test Case #3	✓	Test Case #4	✓	Test Case #5
✓	Test Case #6	✓	Test Case #7	✓	Test Case #8
✓	Test Case #9				

Submitted Code

Language: Java 8

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```
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         Scanner sc=new Scanner(System.in);
8         int r=sc.nextInt();
9         int c=sc.nextInt();
10        int[][] mat1=new int[r][c];
11        int[][] mat2=new int[r][c];
12        for (int i=0;i<r;i++)
13            for(int j=0;j<c;j++)
14                mat1[i][j]=sc.nextInt();
15        for (int i=0;i<r;i++)
16            for(int j=0;j<c;j++)
17                mat2[i][j]=sc.nextInt();
18        int[][] mat2T=new int[r][c];
19        for(int i=0;i<r;i++)
20            for(int j=0;j<c;j++)
21                mat2T[j][i]=mat2[i][j];
22        int[][] result=new int[r][c];
23        for(int i=0;i<r;i++){
24            for(int j=0;j<c;j++){
25                int sum=0;
26                for(int k=0;k<r;k++){
27                    sum+=mat1[i][k]*mat2T[j][k];
28                }
29                result[i][j]=sum;
30            }
31        }
```

```
32     for(int[] row:result){
33         for(int j=0;j<c;j++){
34             System.out.print(row[j]);
35             if(j<c-1)System.out.print(" ");
36         }
37         System.out.println(" ");
38     }
39 }
40 }
```

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