

<https://pandalprogrammingacademy.github.io/course-problem-deck/#!/problem/601538ed3e9f44001552778c>

Matrix Product

50 POINTS

Given two matrices A and B of order $(m1, n1)$ and $(m2, n2)$. Your task is to find the product of the matrices A and B i.e. $A.B$

Input format:

First line of input contains four space separated integers $m1, n1, m2$ and $n2$

Next $m1$ lines contains $n1$ space separated integers denoting the elements of matrix A

Next $m2$ lines contains $n2$ space separated integers denoting the elements of matrix B

Output format:

$m1$ lines each containing $n2$ space separated integers denoting the elements of $A.B$

Constraints:

(i) $0 \leq m1, n1, m2, n2 \leq 10$

(ii) $n1 = m2$

(iii) $0 \leq A[i][j], B[i][j] \leq 10$

Test Case - 1

```
2 3 3 3
5 0 0
1 4 2
8 1 1
9 8 3
8 3 8
40 5 5
60 39 29
```

Test Case - 2

```
1 5 5 2
5 0 3 8 9
3 6
0 0
6 2
0 3
7 7
96 123
```

Problem tags:

THE COMPLETE C COURSE

EASY

ARRAY

MATRIX