Matrix Multiplication

ZPRAC-16-17-Lab10

[30 points]

You are given two integer matrices. Your job is to multiply the two given matrices and display the resultant matrix.
If matrix multiplication is not possible display "INVALID INPUT"

INPUT FORMAT:

A B --- two integers representing row and column dimensions of first matrix
(A x B integers) --- elements of first matrix
C D --- two integers representing row and column dimensions of second matrix
(C x D integers) --- elements of second matrix

OUTPUT FORMAT:

(A x D integers) --- the resultant matrix
OR
INVALID INPUT --- if matrices cannot be multiplied

EXAMPLE:

INPUT:
2 3
1 2 3
4 5 6
3 2
7 8
9 10
11 12

OUTPUT:
58 64
139 154

INPUT:
2 2
1 2

3 4
3 1
1
2
3

OUTPUT:
INVALID INPUT