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All Contests ❯ 22_PPS1_Lab6 ❯ Multiply two integer matrices

Multiply two integer matrices

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Refer this video if you do not know how to perform multiplication of two matrices

Input Format

Input will contain $2 + m + x$ lines.

First line will contain dimensions of first matrix (m by n)

Second line will contain dimensions of second matrix (x by y).

Next m lines will contain rows of first matrix; one row of first matrix per line, and each line would have n integers separated by tab.

Next x lines will contain rows of second matrix; one row of second matrix per line, and each line would have y integers separated by tab.

Constraints

$0 < m, n, x, y <= 100$

$-100000 <$ each element of input matrices $<= 100000$

Output Format

If multiplication is possible, output file should have $1 + p$ lines.

First line should have dimensions of resultant matrix (p by q).

Next p lines should have rows of resultant matrix; one row of resultant matrix per line, and each line should have q integers separated by tab.

If multiplication is not possible, output file should have one line containing following text in capital letters.

MULTIPLICATION NOT POSSIBLE

Sample Input 0

```
1	1
1	1
1
1
```

Sample Output 0

```
1	1
1
```

Sample Input 1

```
1    2
1    2
3    4
4    4
```

Sample Output 1

```
MULTIPLICATION NOT POSSIBLE
```

Sample Input 2

```
1    2
2    1
4    5
7
8
```

Sample Output 2

```
1    1
68
```

Sample Input 3

```
2    1
1    2
7
8
4    5
```

Sample Output 3

```
2    2
28    35
32    40
```

Sample Input 4

```
4    3
3    4
1    5    9
20    -6    10
3    71    -75
4    88    98
79    12    24    11
19    34    1    0
-5    -19    23    57
```

Sample Output 4

```
4    4
129    11    236    524
1416    -154    704    790
1961    3875    -1582    -4242
1498    1178    2438    5630
```

Sample Input 5

```
1    2
2    2
4    -5
3    -2
-4    7
```

Sample Output 5

```
1    2
32    -43
```

Sample Input 6

```
2    2
1    2
3    -2
-4    7
4    -5
```

Sample Output 6

```
MULTIPLICATION NOT POSSIBLE
```

Sample Input 7

```
2    2
2    1
3    -2
-4    7
4
-5
```

Sample Output 7

```
2    1
22
-51
```

Submissions: 140
Max Score: 10
Difficulty: Medium

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C

```c
1  #include <stdio.h>
2  #include <string.h>
3  #include <math.h>
4  #include <stdlib.h>
5
6  int main() {
7
8      /* Enter your code here. Read input from STDIN. Print output to STDOUT */
9      return 0;
10 }
11
```

Line: 1 Col: 1

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