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Add two matrices

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Problem

Submissions

Leaderboard

Discussions

Read two integer matrices from input. Add the two matrices and output resultant matrix if addition is feasible.

Input Format

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

First line will contain dimensions of first matrix (m by n). values of m and n will be separated by tab.

Second line will contain dimensions of second matrix (x by y). values of x and y will be separated by tab.

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

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

Constraints

$1 \leq m, n, x, y \leq 1000$

$-1000000 \leq \text{each element of input matrices} \leq 1000000$

Output Format

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

First line should have dimensions of resultant matrix (p by q). values of p and q will be separated by tab.

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

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

ADDITION NOT POSSIBLE

Sample Input 0

```
1 1
1 1
10
12
```

Sample Output 0

```
1 1
22
```

Sample Input 1

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

Sample Output 1

```
3 4
80 32 27 15
24 28 72 88
4 -9 -52 155
```

Sample Input 2

```
2 2
2 2
1 2
3 4
8 7
6 5
```

Sample Output 2

```
2 2
9 9
9 9
```

Sample Input 3

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

Sample Output 3

```
2 3
13 13 13
13 13 13
```

Sample Input 4

```
3 2
3 2
1 2
3 4
5 6
6 5
4 3
2 1
```

Sample Output 4

```
3 2
7 7
```

```
7 7
7 7
```

Sample Input 5

```
3 3
3 3
1 2 3
4 5 6
7 8 9
9 8 7
6 5 4
3 2 1
```

Sample Output 5

```
3 3
10 10 10
10 10 10
10 10 10
```

Sample Input 6

```
2 3
3 2
1 2 3
4 5 6
1 2
3 4
5 6
```

Sample Output 6

```
ADDITION NOT POSSIBLE
```

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Max Score: 10

Difficulty: Easy

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C



```
#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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