

Changing a 2D Array

Input File: array2d.txt

You are given a file with a printed 2D array. You must change the array in the following manner:

- If the number is a multiple of 3, you must square that number
- If the number is a multiple of 5, you must take the n th root of the number, where n equals the row number (the first line describing the number of columns/rows does not count as a row number, and the rows start at 1, not 0)
- If the number is a multiple of 3 AND 5, you must divide the number by 5

All your numbers must be rounded to the nearest integer. 0 is **not** considered a multiple of 3 or 5 or both.

Input:

The first line has a number that represents the number of columns, followed by a space, followed by a second number that represents the number of rows. Then the printed array is shown, where each row has integers separated by spaces, and the columns on separate lines.

Output:

You will output the 2D array modified using the changes described above.

Example Input:

```
3 4
5 71 2
8 9 15
2 20 1645
57 40 105
```

Example Output:

```
5 71 2
8 81 3
2 3 12
3249 3 21
```