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ASCII Flower

by isat1729

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Julie is designing a birthday card for her friend that has r rows and c columns of ASCII art flower patterns on the front. She isn't sure which dimensions will look best, so she's writing a program to automatically generate different configurations.

Julie represents each petal with an uppercase O (ASCII 79), the flower's center as a lowercase o (ASCII 111), and all empty spaces as periods (. , or ASCII 46) so a single flower (i.e., where $r = 1$ and $c = 1$) always looks like this:

```
..O..
O.o.O
..O..
```

For example, if $r = 2$ and $c = 3$, the resultant 6-flower card looks like this:

```
..O....O....O..
O.o.OO.o.OO.o.O
..O....O....O..
..O....O....O..
O.o.OO.o.OO.o.O
..O....O....O..
```

Given r and c, print the corresponding ASCII art pattern using the characters specified above. You *are not* required to use ASCII values to complete this challenge.

Input Format

Two space-separated integers describing the respective values of r (the number of rows) and c (the number of columns).

Constraints

- $1 \leq r, c \leq 20$

Output Format

Print the appropriate flower pattern for r rows and c columns of ASCII flowers.

Sample Input 0

```
1 1
```

Sample Output 0

```
..O..
O.o.O
..O..
```

Explanation 0

The pattern consists of $r = 1$ row and $c = 1$ column, so we only need to print 1 flower.

Sample Input 1

```
2 5
```

Sample Output 1

```
..0....0....0....0....0..
0.o.00.o.00.o.00.o.00.o.0
..0....0....0....0....0..
..0....0....0....0....0..
0.o.00.o.00.o.00.o.00.o.0
..0....0....0....0....0..
```

Explanation 1

This pattern consists of $r = 2$ rows and $c = 5$ columns, so we print a total of 10 flowers ($c = 5$ flowers per row over $r = 2$ rows).

f 𝕐 in

Contest ends in 2 days

Submissions: 1413
Max Score: 20
Difficulty: Easy

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More

Current Buffer (saved locally, editable)   ⑂ ⟳   C#   ⌄   ⤢   ⚙

```csharp
1   using System;
2   using System.Collections.Generic;
3   using System.IO;
4   using System.Linq;
5   class Solution {
6
7       static void Main(String[] args) {
8           string[] tokens_r = Console.ReadLine().Split(' ');
9           int r = Convert.ToInt32(tokens_r[0]);
10          int c = Convert.ToInt32(tokens_r[1]);
11          // your code goes here
12
13            string[] u =
14              {
15                  "..0..",
16                  "0.o.0",
17                  "..0.."
18              };
19
20
21
22
23
24            r *= 3;
25            string[,] matrix = new string[r, c];
26
27            int fila =0;
28            for (int i = 0; i < r; i++)
29            {
30                for (int j = 0; j < c; j++)
31                {
32                    matrix[i, j] = u[fila];
33                }
34                fila++;
35                if (fila >= u.Length)
36                {
37                    fila = 0;
```

```
38                    }
39                }
40
41            for (int i = 0; i < r; i++)
42            {
43                for (int j = 0; j < c; j++)
44                {
45                    Console.Write(matrix[i, j]);
46                }
47                Console.WriteLine();
48            }
49
50
51        }
52    }
53
```

Line: 21 Col: 6

⬆ Upload Code as File   ☐ Test against custom input   Run Code   Submit Code

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