

1	2	3	4	5
2	3	4	5	1
5	4	1	2	3
4	1	5	3	2
3	5	2	1	4

Why does this fail?

1	2	3	4	5
2	3	4	5	1
5	4	1	2	3
4	1	5	3	2
3	5	2	1	4

**Two identical pentominoes
cannot exist in a solution.**

1	3	2	5	4
5	2	4	3	1
4	5	3	1	2
2	1	5	4	3
3	4	1	2	5

Why does this fail?

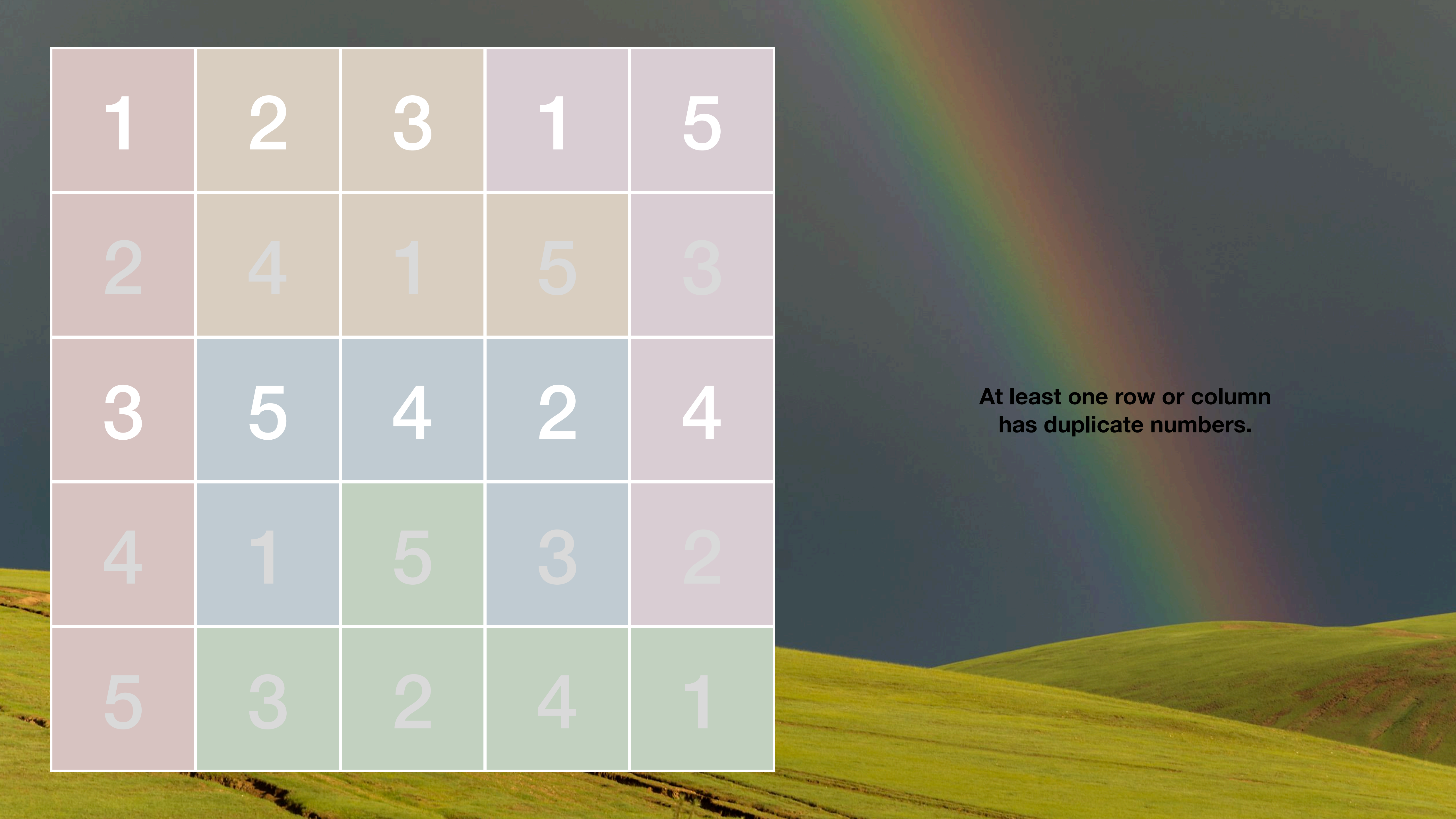


1	3	2	5	4
5	2	4	3	1
4	5	3	1	2
2	1	5	4	3
3	4	1	2	5

At least one pentomino has
duplicate numbers.

1	2	3	1	5
2	4	1	5	3
3	5	4	2	4
4	1	5	3	2
5	3	2	4	1

Why does this fail?

A 5x5 grid of numbers is displayed on a background of rolling green hills under a dark blue sky with a faint rainbow. The grid is divided into five columns and five rows. The numbers in each row are: Row 1: 1, 2, 3, 1, 5; Row 2: 2, 4, 1, 5, 3; Row 3: 3, 5, 4, 2, 4; Row 4: 4, 1, 5, 3, 2; Row 5: 5, 3, 2, 4, 1. The numbers are white or light gray, and the grid cells have a light beige or light green background color.

1	2	3	1	5
2	4	1	5	3
3	5	4	2	4
4	1	5	3	2
5	3	2	4	1

**At least one row or column
has duplicate numbers.**

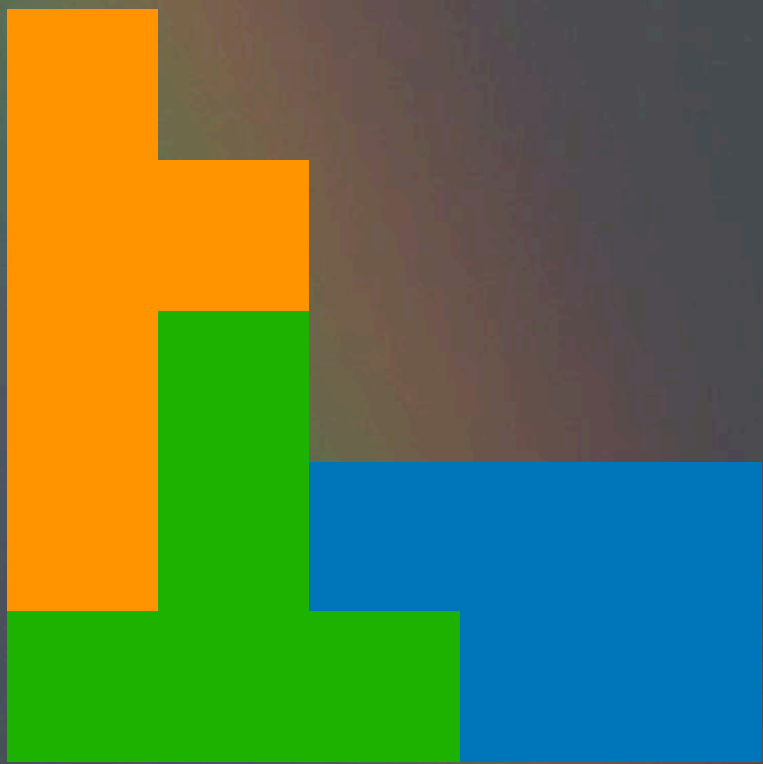
				4
		5	4	3
		4		2
		3	2	1



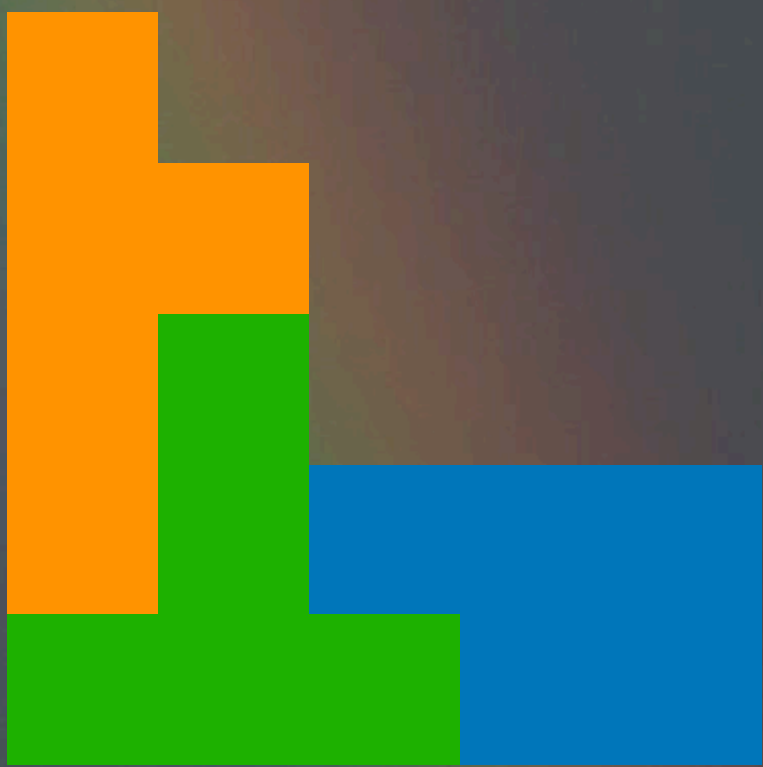
2	4	1	3	5
5	3	2	1	4
1	2	5	4	3
3	1	4	5	2
4	5	3	2	1



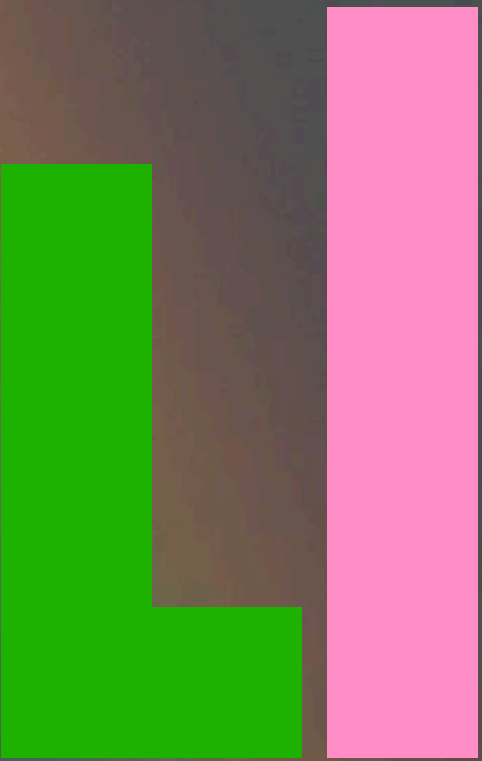
	2	3		5
2	3		5	
5		4		3
			3	2
		2	4	



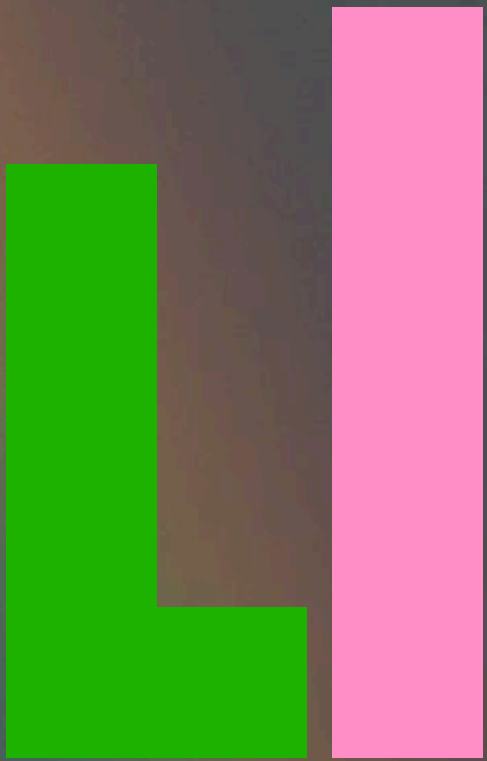
4	2	3	1	5
2	3	1	5	4
5	1	4	2	3
1	4	5	3	2
3	5	2	4	1



	2	3		5
2	3	4		
3	5	1	2	4
		2	1	3
4		5	3	



1	2	3	4	5
2	3	4	5	1
3	5	1	2	4
5	4	2	1	3
4	1	5	3	2



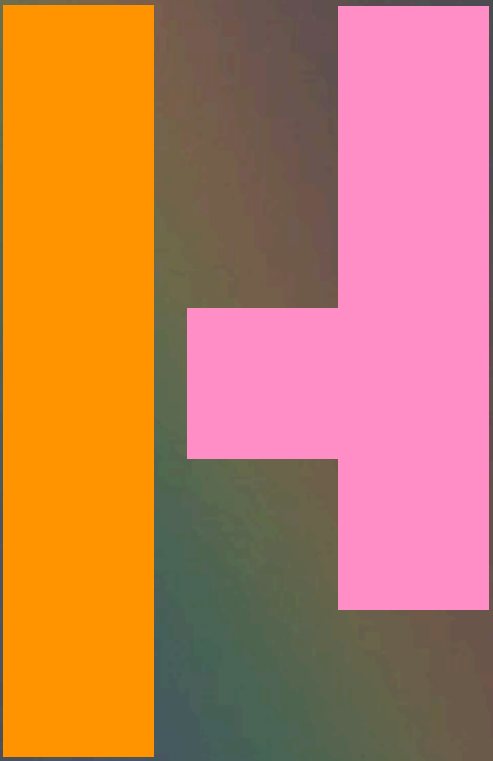
1	2	3	4	
2	4	1		
3	5			
4				
				4



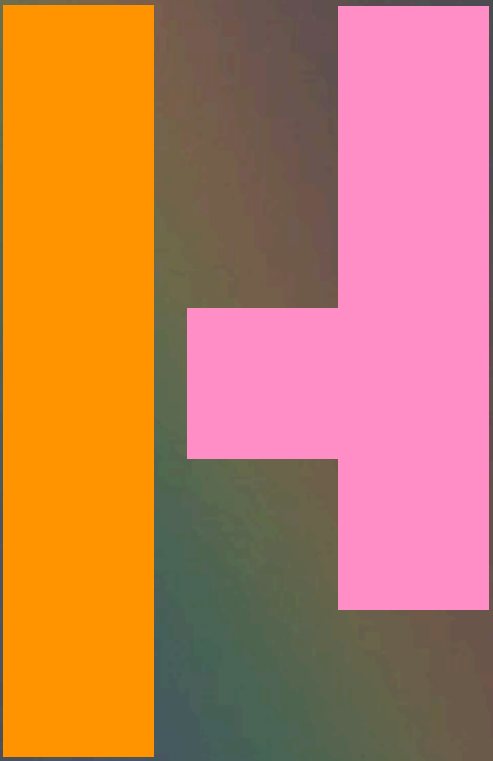
1	2	3	4	5
2	4	1	5	3
3	5	4	2	1
4	1	5	3	2
5	3	2	1	4



1	2	3	4	5
2	3	1	5	4
4	5	2	3	1



1	2	3	4	5
2	3	1	5	4
3	4	5	1	2
5	1	4	2	3
4	5	2	3	1



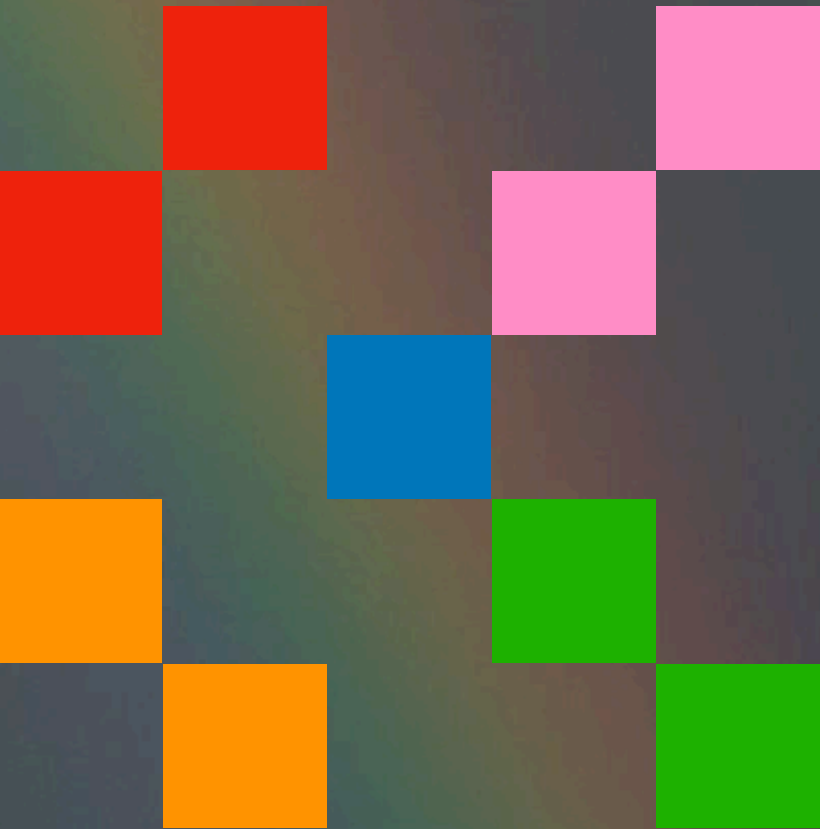
1	2	3	4	5
2				4
4				1
3				2
5	4	1	2	3



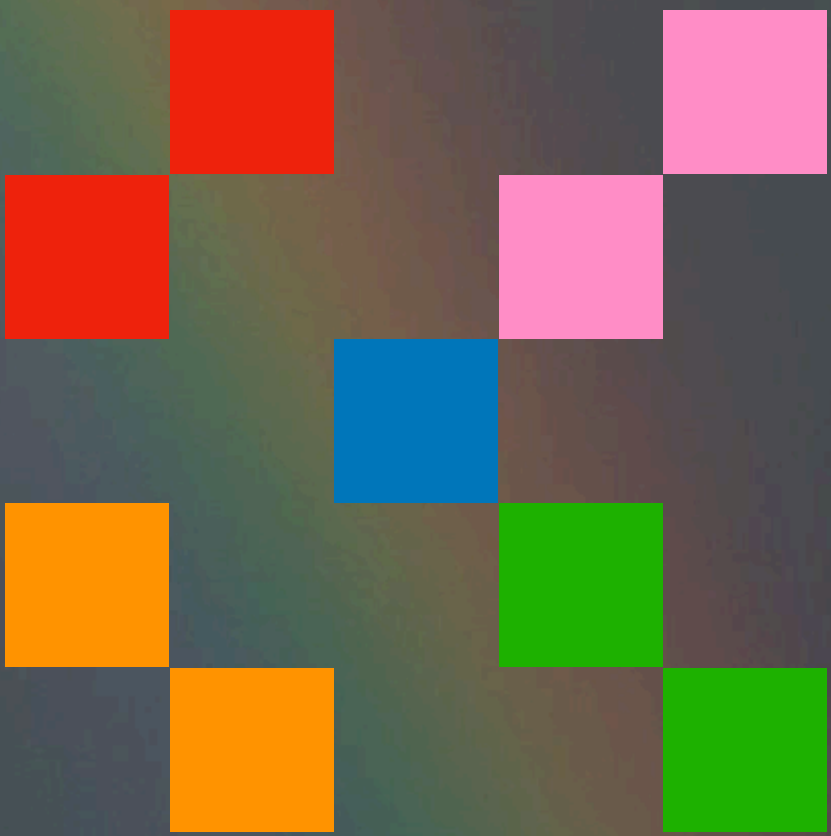
1	2	3	4	5
2	1	5	3	4
4	3	2	5	1
3	5	4	1	2
5	4	1	2	3



		5	1	
	1	2		5
5	4			
	5	1		2
		4	5	

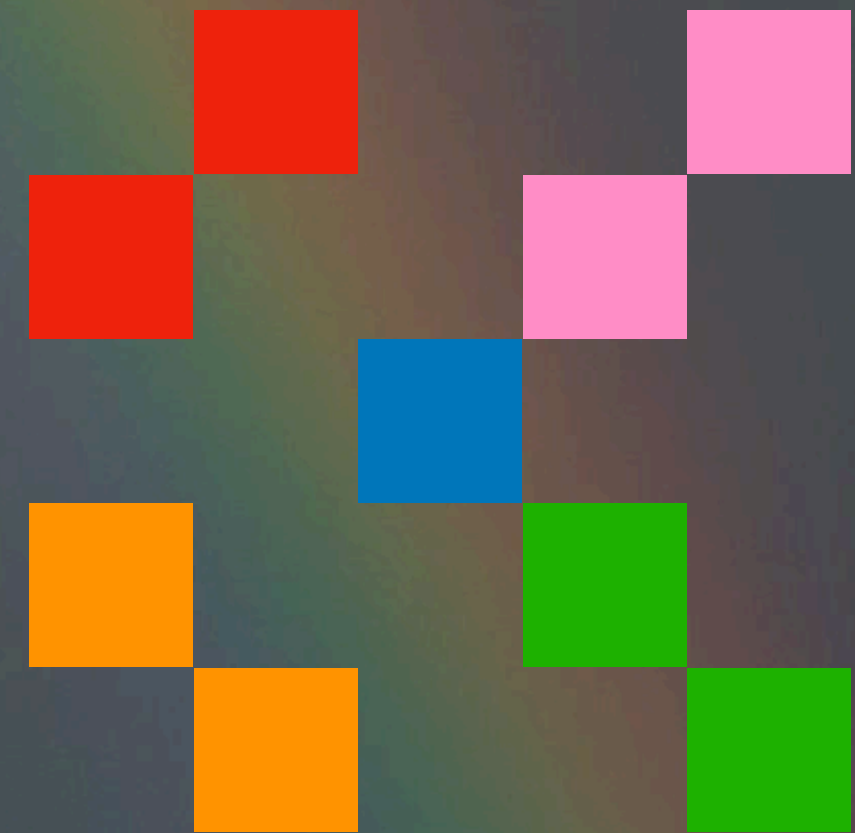


2	3	5	1	4
4	1	2	3	5
5	4	3	2	1
3	5	1	4	2
1	2	4	5	3

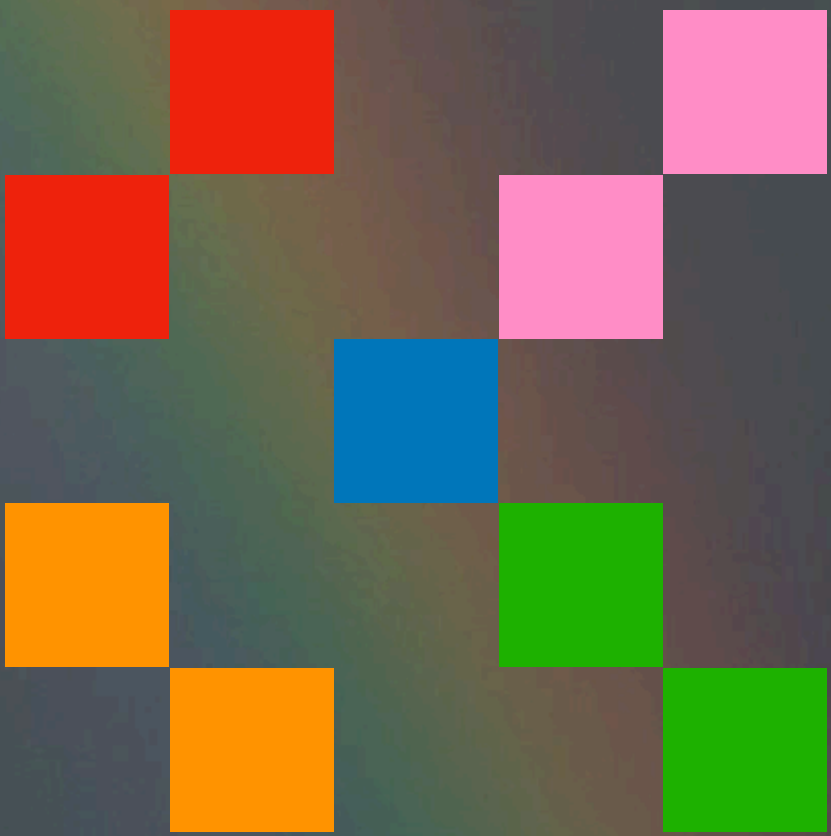


		5	1	
	1	2		5
5	4			
	5	1		3
	4	5		

Same, but for this 3.



3	2	5	1	4
4	1	2	3	5
5	4	3	2	1
2	5	1	4	3
1	3	4	5	2



5				3
	3	5	4	
	5	2	1	
	4	3	5	



5	1	4	2	3
4	2	1	3	5
1	3	5	4	2
3	5	2	1	4
2	4	3	5	1



5				4
	3	5	4	
	5	2	1	
	4	3	5	

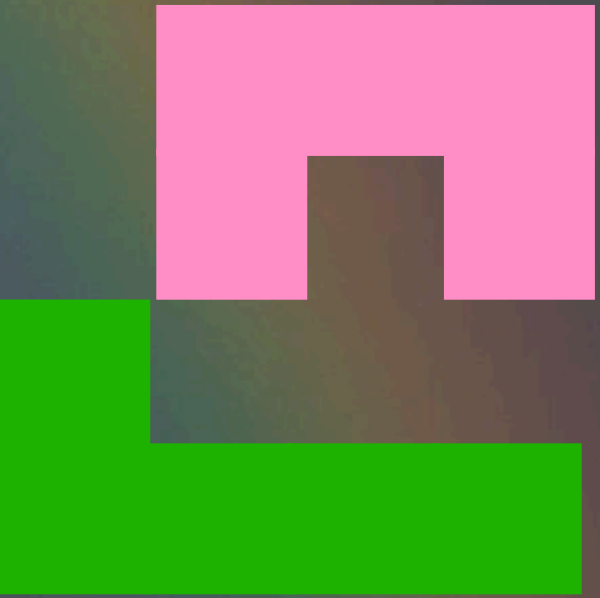
Same, but for this 4.



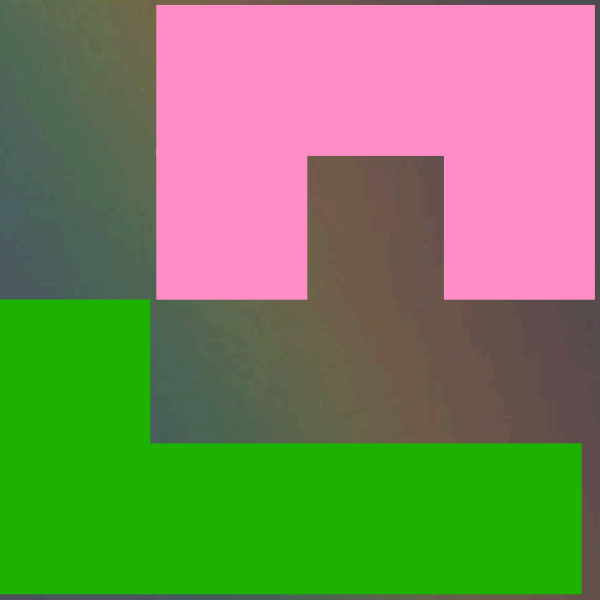
5	2	1	3	4
3	1	4	2	5
1	3	5	4	2
4	5	2	1	3
2	4	3	5	1



	1	4	5	
	4	5	1	
	5	2	3	



4	3	1	2	5
2	1	4	5	3
3	4	5	1	2
1	5	2	3	4
5	2	3	4	1



	1	2	3	
	4	5	1	
	2	3	4	



4	3	1	5	2
5	1	2	3	4
2	4	5	1	3
1	2	3	4	5
3	5	4	2	1



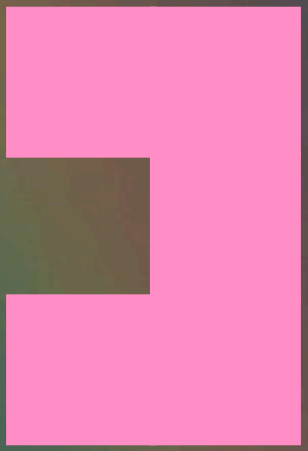
1	2	3	4	5
2				3
3				1
4				2
5	3	2	1	4



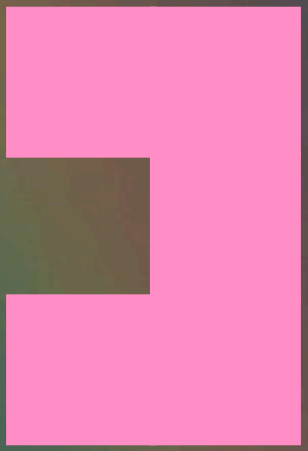
1	2	3	4	5
2	4	1	5	3
3	5	4	2	1
4	1	5	3	2
5	3	2	1	4



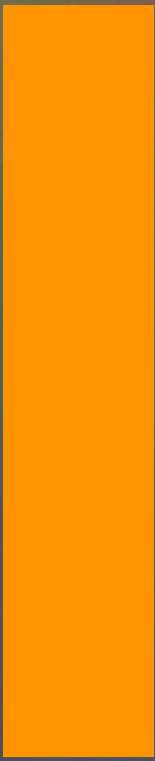
4	2			
2	1			
3	5			
1	4	5	3	2
5	3	2	4	1



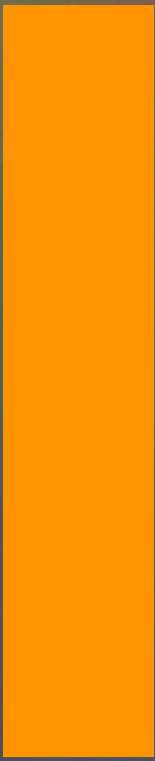
4	2	3	1	5
2	1	4	5	3
3	5	1	2	4
1	4	5	3	2
5	3	2	4	1

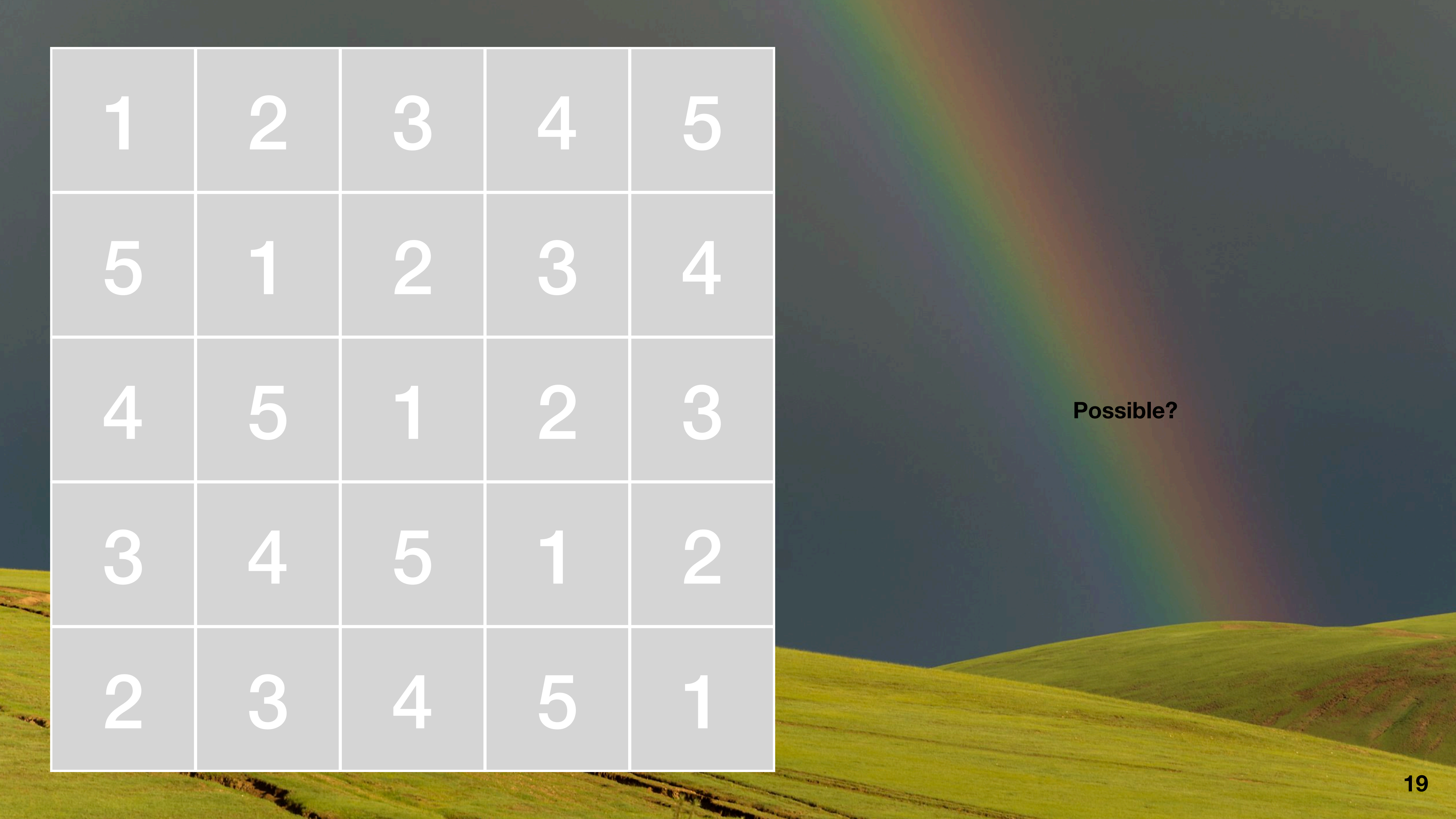


	1	3		
	5		3	
	3	4		
			2	



1	2	5	4	3
2	1	3	5	4
4	5	2	3	1
5	3	4	1	2
3	4	1	2	5



A 5x5 grid of numbers is displayed on the left side of the image. The background features a vibrant landscape with rolling green hills under a dark blue sky, with a faint rainbow visible in the upper right. The grid contains the following numbers:

1	2	3	4	5
5	1	2	3	4
4	5	1	2	3
3	4	5	1	2
2	3	4	5	1

Possible?



1	2	3	4	5
5	1	2	3	4
4	5	1	2	3
3	4	5	1	2
2	3	4	5	1

One of many solutions.

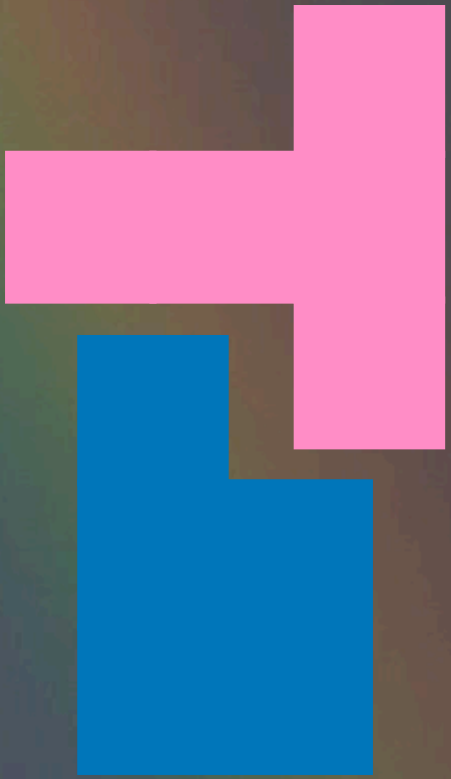
1	2	3	4	5
2	4	1	5	3
3	5	4	2	1
4	1	5	3	2
5	3	2	1	4



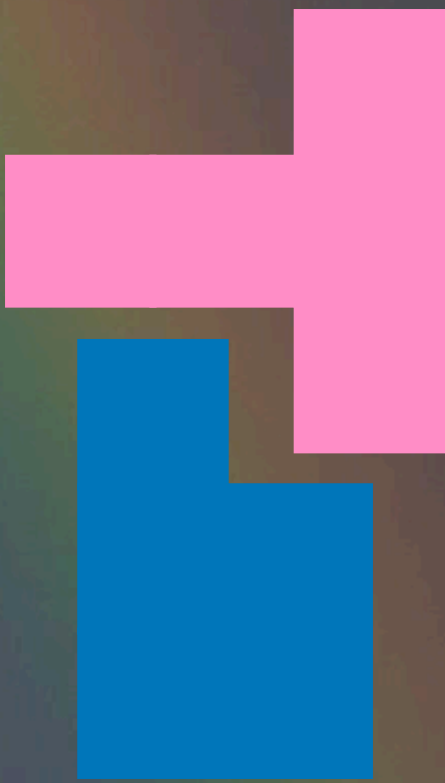
1	2	3	4	5
2	4	1	5	3
3	5	4	2	1
4	1	5	3	2
5	3	2	1	4



	4	3		1
	3			2
	2			3
	1			



2	4	3	5	1
1	3	5	4	2
5	2	4	1	3
4	1	2	3	5
3	5	1	2	4



		3	4	5
				4
				3
				2
				1



2	1	3	4	5
5	3	1	2	4
1	4	2	5	3
3	5	4	1	2
4	2	5	3	1



1	2	3	4	5
				4
				3
				2
3				1



1	2	3	4	5
5	3	2	1	4
2	1	4	5	3
4	5	1	3	2
3	4	5	2	1



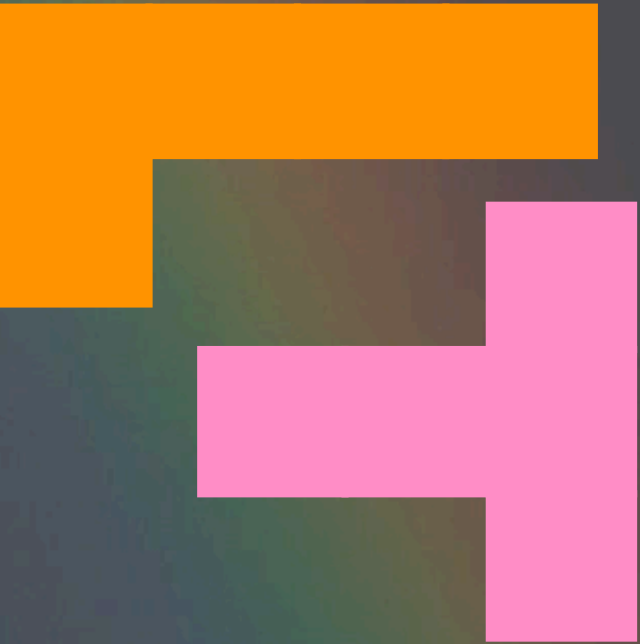
1	2	3	4	5
				4
				3
				2
4				1



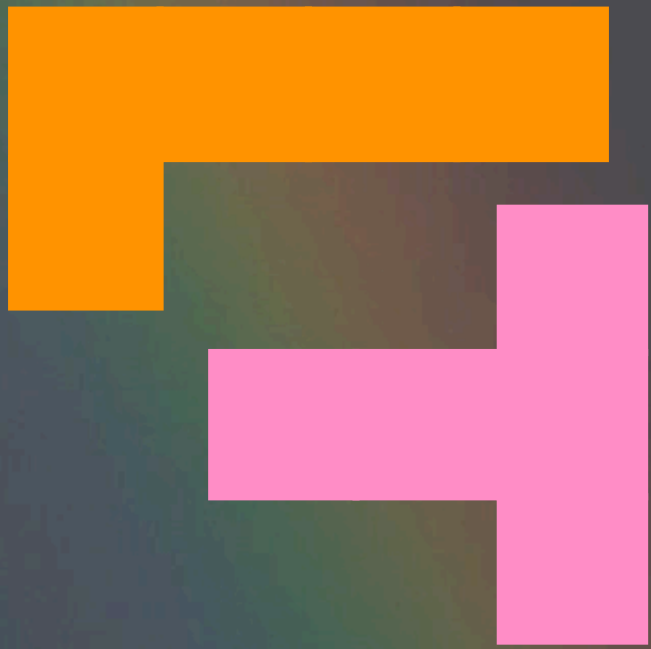
1	2	3	4	5
3	5	2	1	4
2	1	4	5	3
5	4	1	3	2
4	3	5	2	1



1	2	3	4	5
5				4
				3
				2
				1



1	2	3	4	5
5	3	2	1	4
2	1	4	5	3
4	5	1	3	2
3	4	5	2	1



1	2	3	4	5
2	4	1	5	3
3	5	4	2	1
4	1	5	3	2
5	3	2	1	4



1	2	3	4	5
2	4	1	5	3
3	5	4	2	1
4	1	5	3	2
5	3	2	1	4



				5
				4
4				3
3				2
				1



1	4	3	2	5
5	3	2	1	4
4	2	1	5	3
3	1	5	4	2
2	5	4	3	1

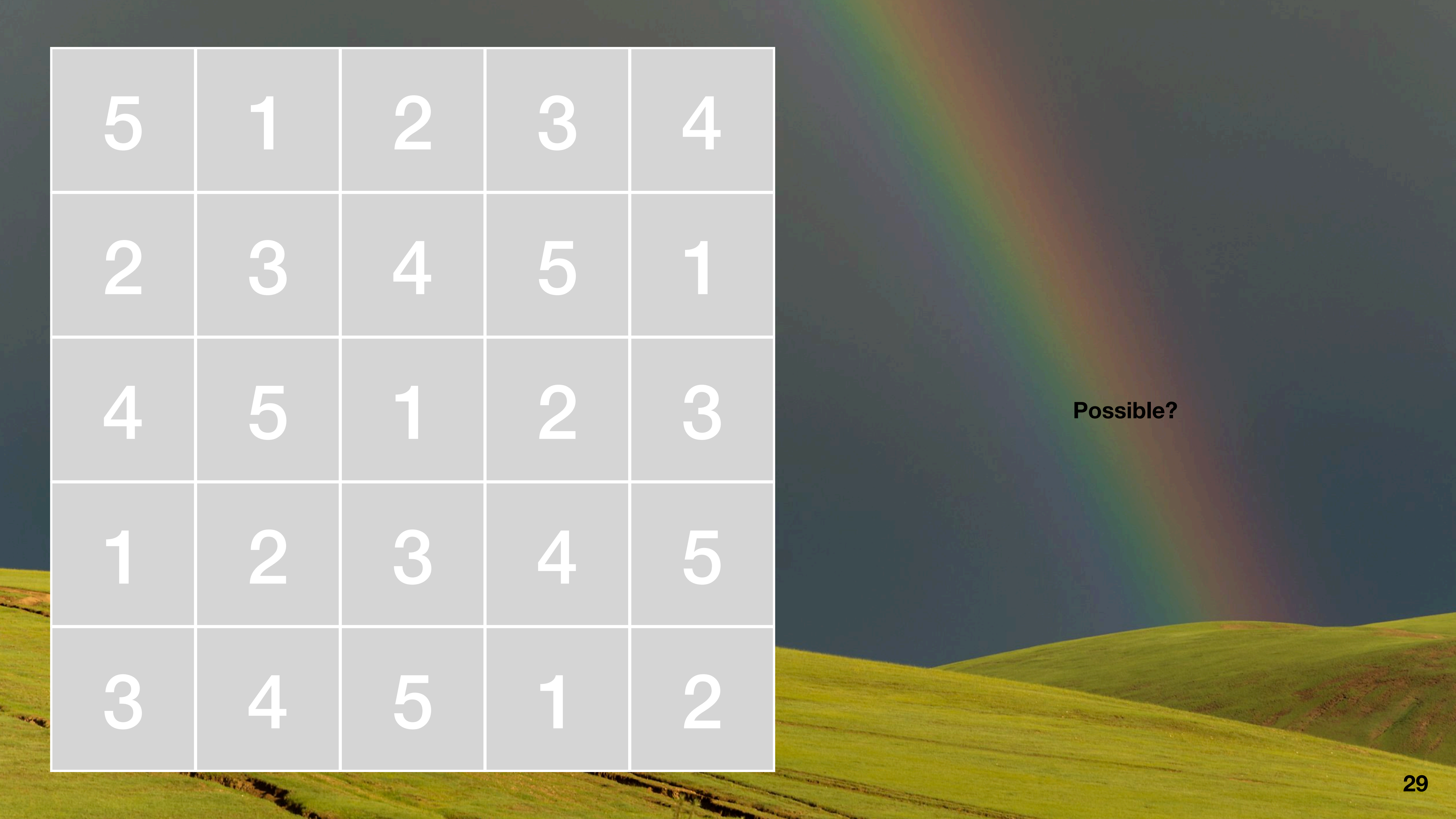


	1	4	5	
2	4	5	1	
	5	2	3	



4	3	1	2	5
3	1	4	5	2
2	4	5	1	3
1	5	2	3	4
5	2	3	4	1



A 5x5 grid of numbers is displayed on the left side of the image. The background features rolling green hills under a dark blue sky with a faint rainbow. The grid contains the following numbers:

5	1	2	3	4
2	3	4	5	1
4	5	1	2	3
1	2	3	4	5
3	4	5	1	2

Possible?

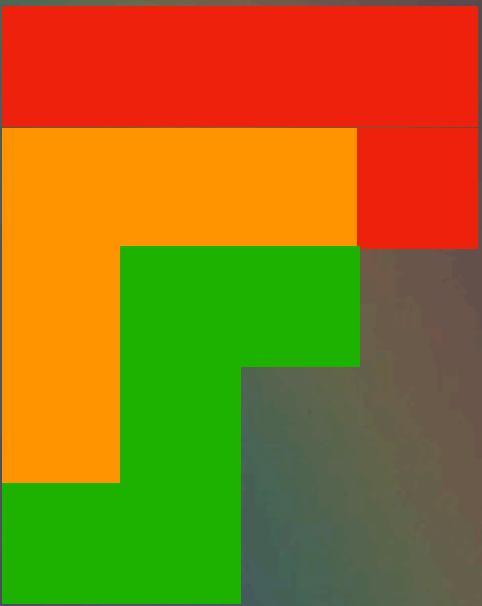
5	1	2	3	4
2	3	4	5	1
4	5	1	2	3
1	2	3	4	5
3	4	5	1	2



Impossible!
 All equal numbers are a knight's jump apart.
 There are only five pentominoes that
 can cover 5 different numbers.
 They cannot fit together to
 cover the 5x5 square.

1	2	3	4	5
				4
				3
				2
		4	3	1

Find two solutions



1	2	3	4	5
3	1	2	5	4
5	4	1	2	3
4	3	5	1	2
2	5	4	3	1



1	2	3	4	5
3	1	2	5	4
5	4	1	2	3
4	3	5	1	2
2	5	4	3	1



	3			4
5			3	
		2		
	2			3
1			2	

Find two solutions



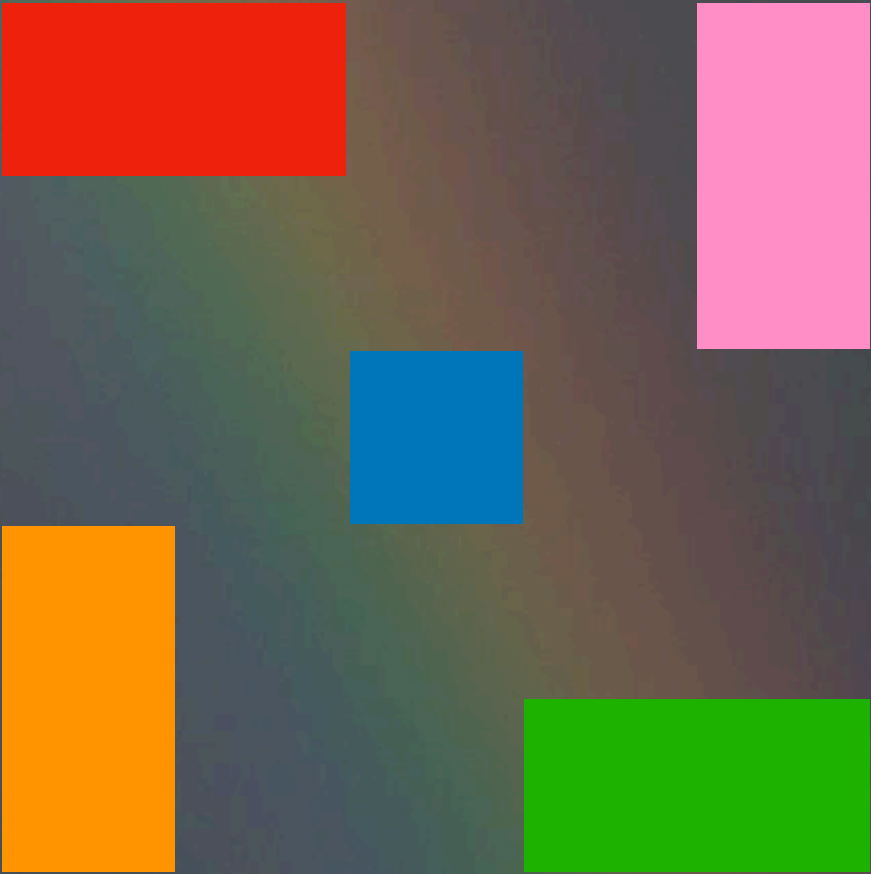
2	3	5	1	4
5	1	4	3	2
3	5	2	4	1
4	2	1	5	3
1	4	3	2	5



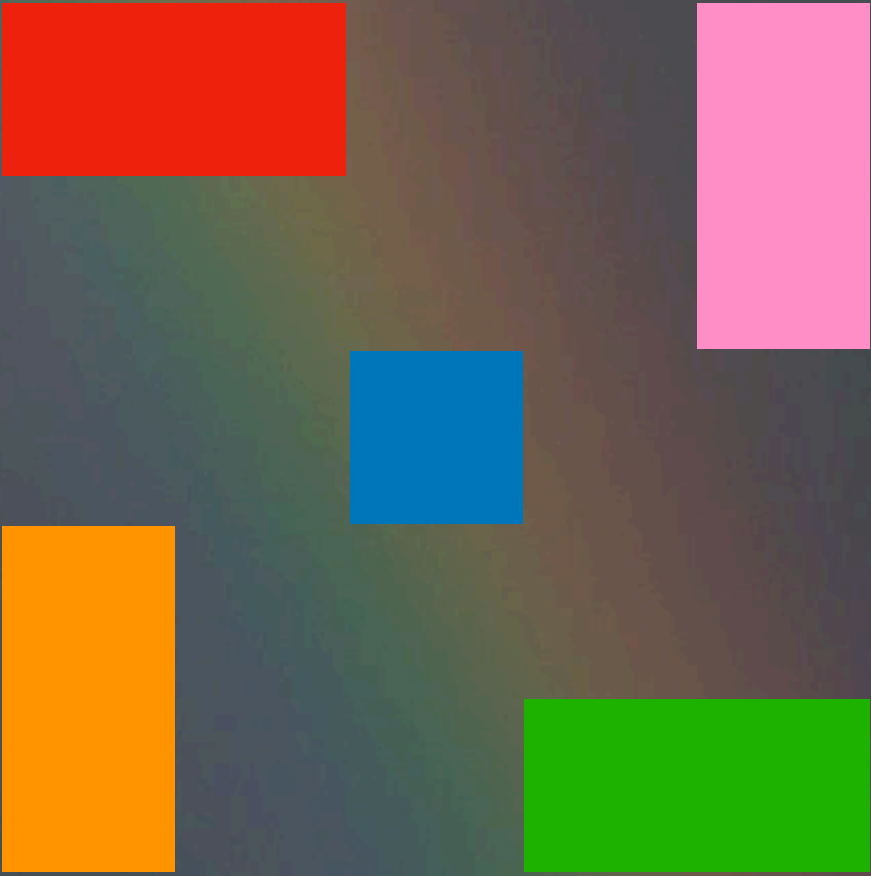
2	3	5	1	4
5	1	4	3	2
3	5	2	4	1
4	2	1	5	3
1	4	3	2	5



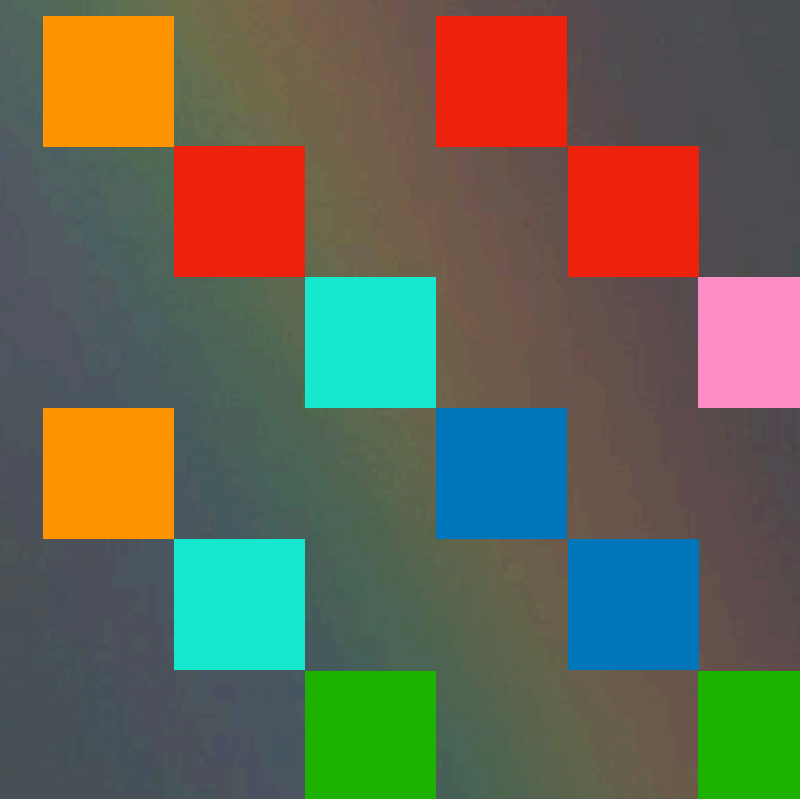
2		4		3
		1		
1	3		4	5
		5		
5		3		1



2	5	4	1	3
3	2	1	5	4
1	3	2	4	5
4	1	5	3	2
5	4	3	2	1



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



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

