

## Futoški

V  $n \times n$  kvadratkov moraš vpisati začetna naravna števila od 1 do  $n$ , tako da bo v vsaki vrstici in v vsakem stolpcu nastopalo vseh  $n$  števil ter, da bodo izpolnjene vse relacije. Oznaka  $\equiv n$  pomeni, da sta sosedni števili kongruentni po modulu  $n$ .

NALOGE:

1.

<input type="text"/>	$\equiv 3$	<input type="text"/>	<input type="text"/>	2
<input type="text"/>	1	<input type="text"/>	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	4	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	$\equiv 3$	<input type="text"/>

2.

<input type="text"/>	<input type="text"/>	<input type="text"/>	4	<input type="text"/>
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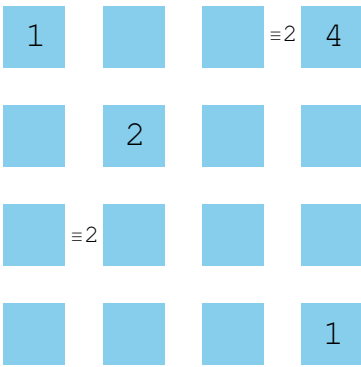
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4	<input type="text"/>	2	<input type="text"/>	<input type="text"/>
<input type="text"/>	2	<input type="text"/>	<input type="text"/>	<input type="text"/>
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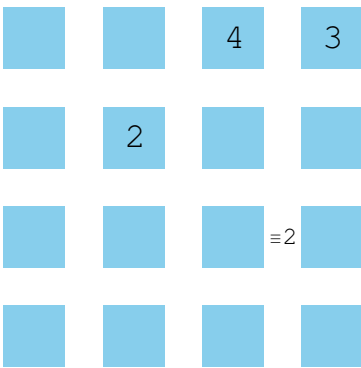
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<input type="text"/>	$\equiv 2$	<input type="text"/>	<input type="text"/>	<input type="text"/>
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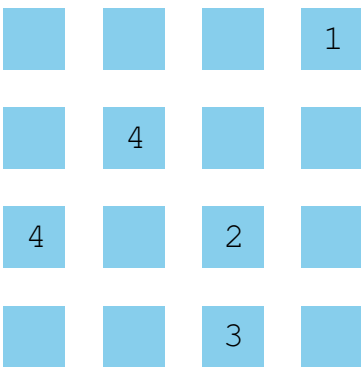
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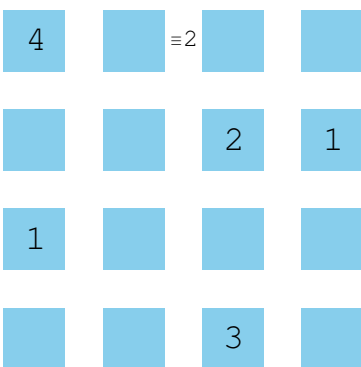
6.



7.



8.



9.

□ □ ≅<sub>3</sub> □ □

4 □ □ □

□ ≅<sub>2</sub> 1 □ □

□ 2 □ □

10.

3 □ □ □

□ □ □ 2

□ □ 2 □

□ □ ≅<sub>3</sub> 4 □

11.

□ 4 ≅<sub>3</sub> □ □

□ 3 □ ≅<sub>2</sub> □

□ □ □ □

2 □ □ □

12.

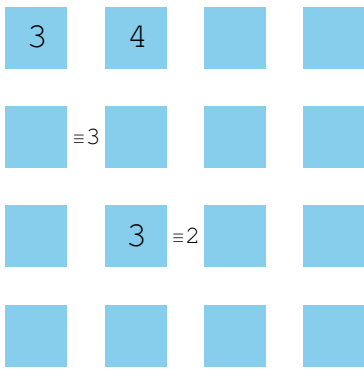
3 2 □ □

□ □ □ 3

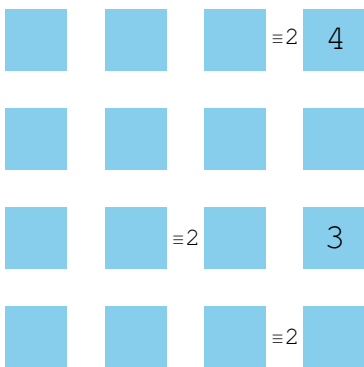
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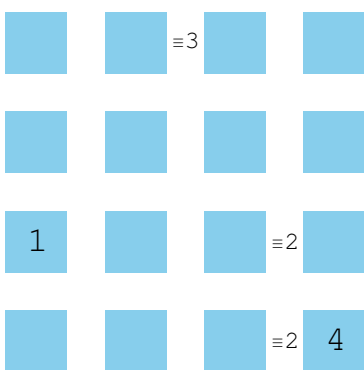
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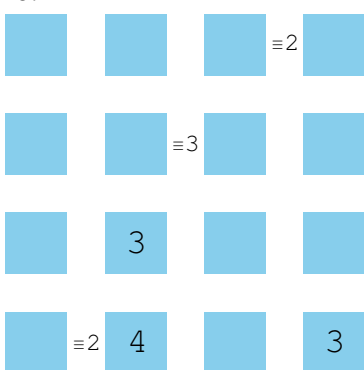
14.



15.



16.



17.

■ ■ 2 1

■ ■  $\equiv 2$  ■  $\equiv 3$  ■

■ ■ ■ ■

■ 1 ■ ■

18.

1  $\equiv 2$  ■ ■ ■

■ ■ ■ 4

4 ■ 1 ■

■  $\equiv 2$  ■ ■ ■

19.

■ ■ 1 ■

■ 3 ■ ■

■ 2 ■ 4

2 ■ ■ ■

20.

■ ■ ■ 3

■ ■  $\equiv 2$  ■ ■

■ ■  $\equiv 2$  ■ 4

1 ■ 4 ■

21.

3			
	1		
1	2	3	
		2	

22.

4			
		3	
		1	2
	3		

23.

4			
	4		
	3		
1		3	

24.

		3	
$\equiv 2$		1	
$\equiv 2$		$\equiv 2$	
	4		

25.

□ 2 □ 1

□  $\equiv 2$  □ □ □

□ □ □  $\equiv 2$  4

1  $\equiv 2$  □ □ □

26.

□  $\equiv 2$  □ 3 □

□ □  $\equiv 2$  □ □

□ □ □ □

4 □ □ □

27.

1 □ □ □

□ □ □  $\equiv 2$  □

□ □ 2  $\equiv 2$  □

□ □  $\equiv 2$  □ □

28.

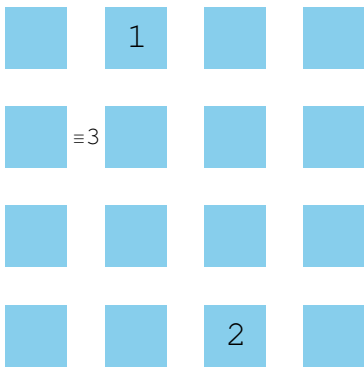
□ □ □  $\equiv 2$  □

□ □ □ □

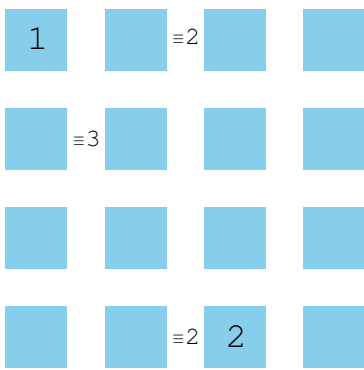
1 □ □ □

□ □ 2 3

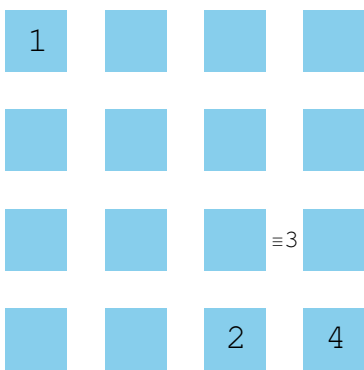
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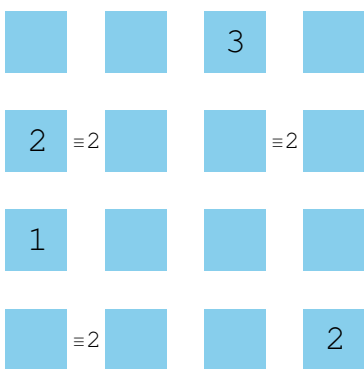
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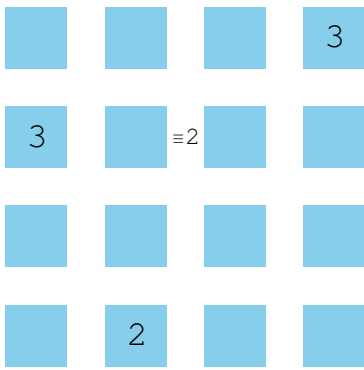


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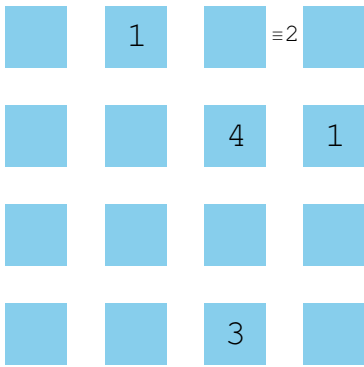


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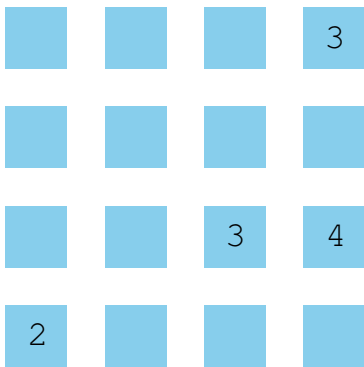




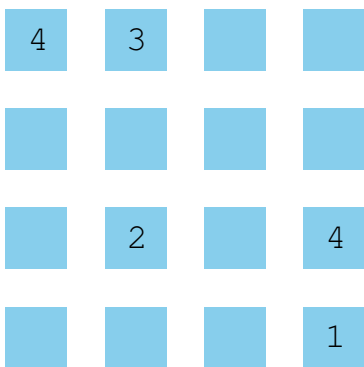
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35.



36.



37.

4		1	
1			4
2		4	

38.

	4		1
	$\equiv 3$		3
	3		

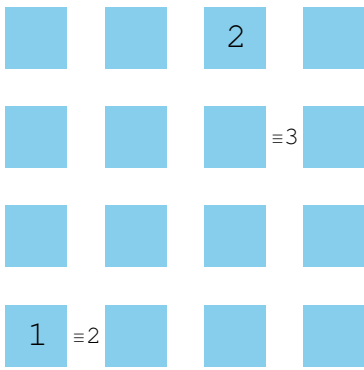
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	$\equiv 3$		
	1	3	
$\equiv 2$		$\equiv 2$	

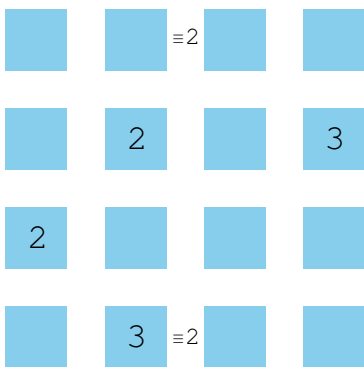
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$\equiv 3$			
3	4		
		4 $\equiv 3$	

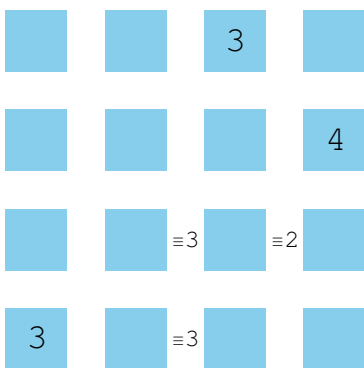
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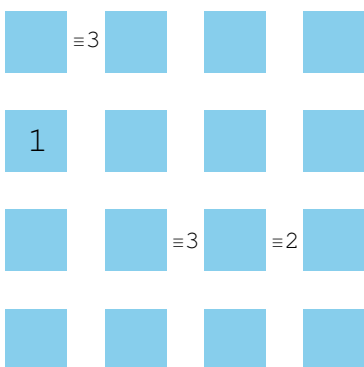
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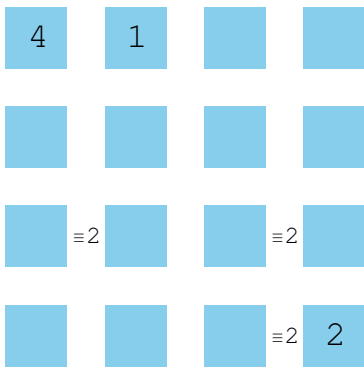
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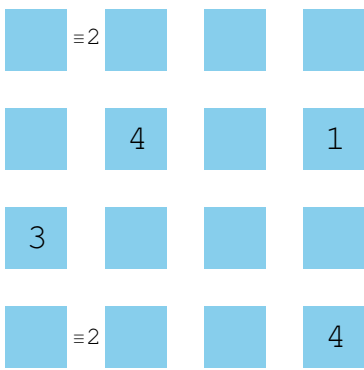
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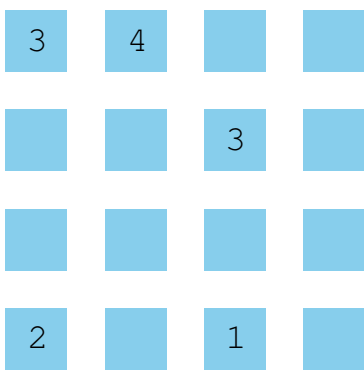
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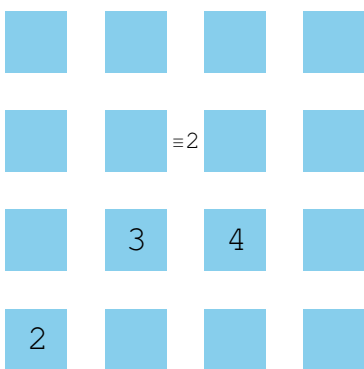
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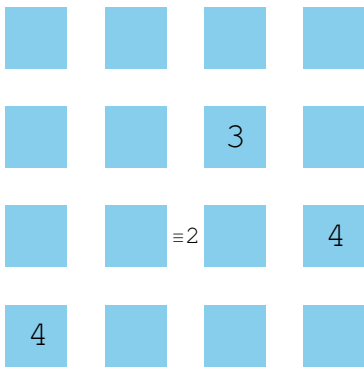
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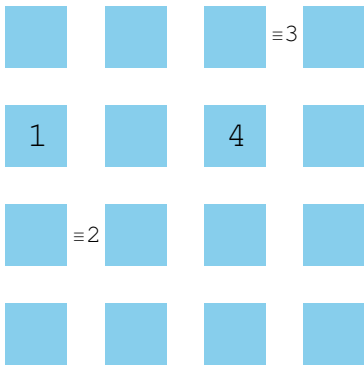
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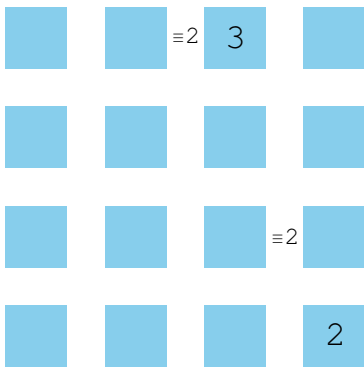
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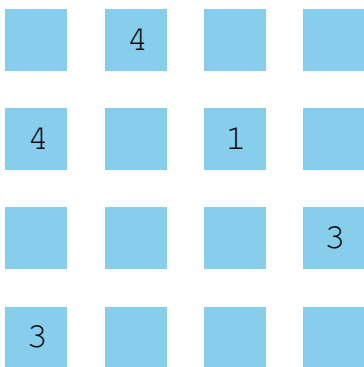
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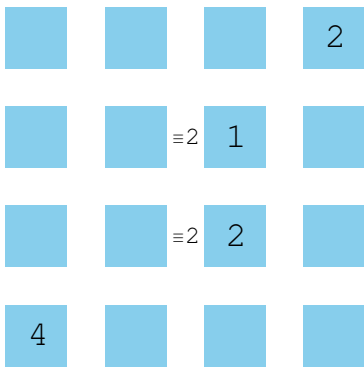
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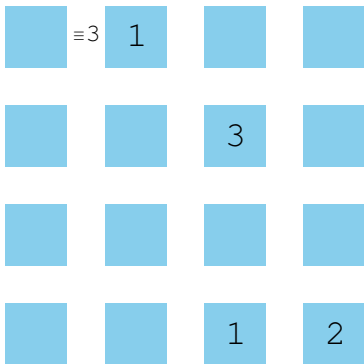
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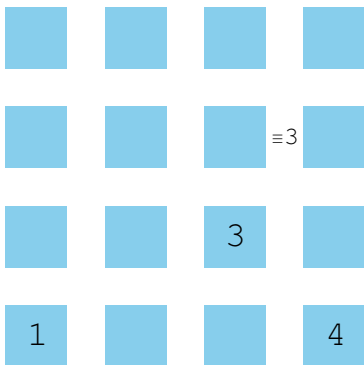
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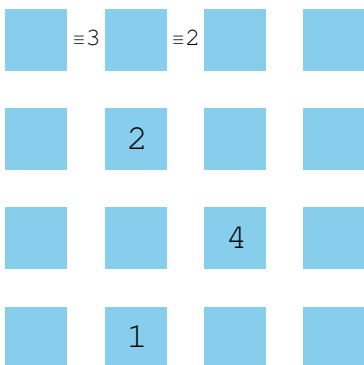
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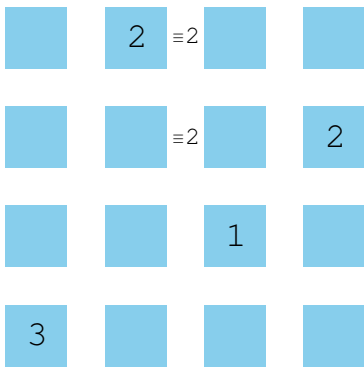
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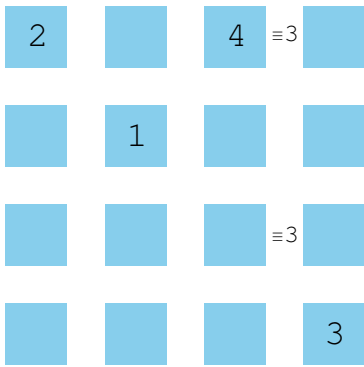
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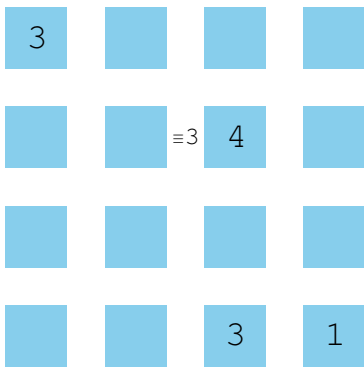
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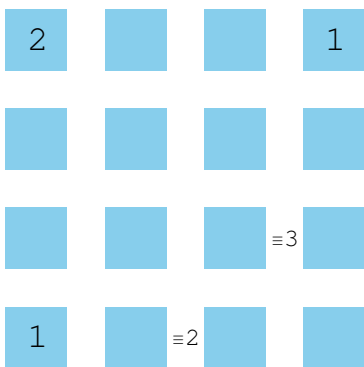
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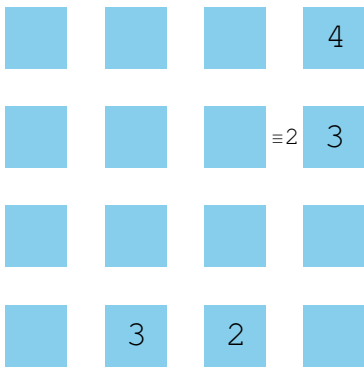
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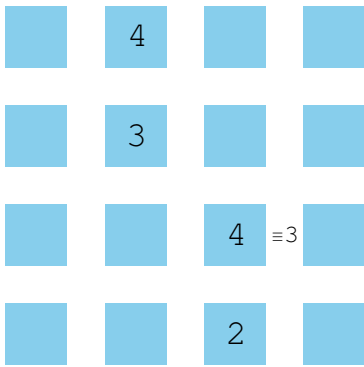
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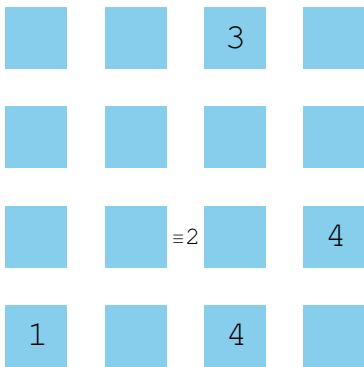
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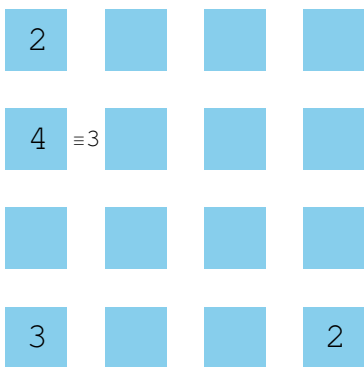
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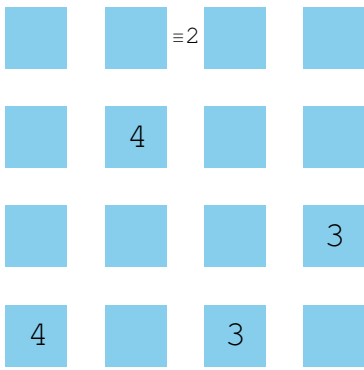


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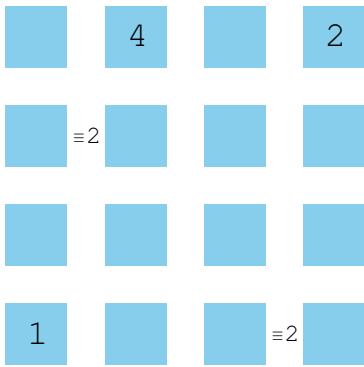


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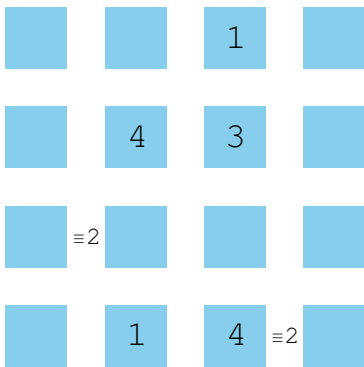




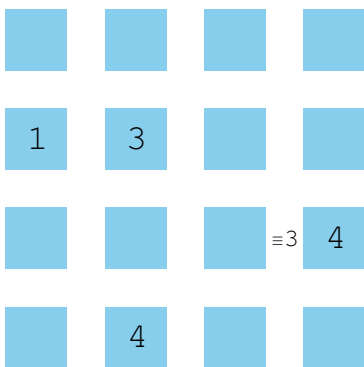
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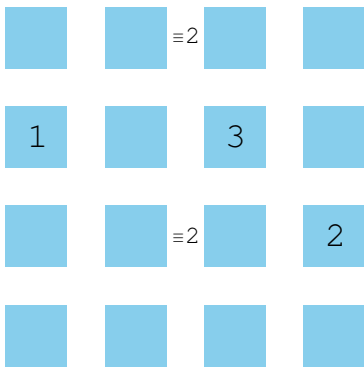
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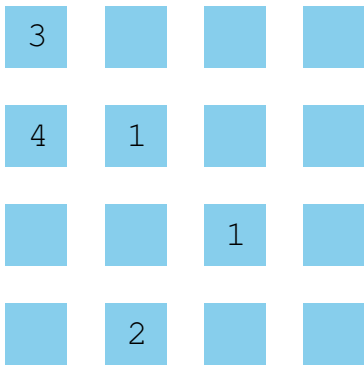
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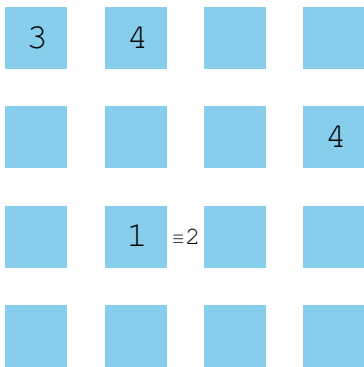
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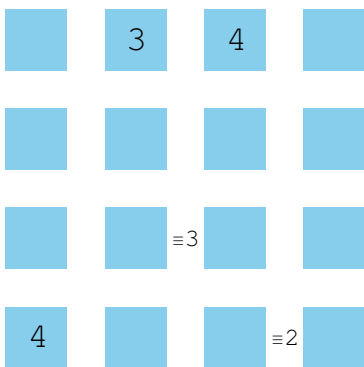
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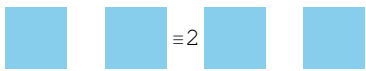
71.



72.



73.



74.



75.



76.



77.

$$\square \quad \square \quad \square \equiv 2 \quad \square$$

$$\square \quad 3 \quad \square \quad \square \equiv 2 \quad \square$$

$$\square \quad \square \quad \square \quad \square$$

$$\square \quad 4 \quad \square \quad \square \quad 3 \quad \square$$

78.

$$\square \quad 2 \quad \square \quad \square \quad \square$$

$$\square \quad 4 \quad \square \quad 2 \quad \square \quad \square$$

$$\square \quad \square \equiv 3 \quad \square \quad 1 \quad \square$$

$$\square \quad \square \quad \square \quad \square$$

79.

$$\square \quad 3 \quad \square \quad \square \quad \square \quad 2 \quad \square$$

$$\square \quad 4 \quad \square \equiv 2 \quad \square \quad 3 \quad \square$$

$$\square \quad \square \quad \square \quad \square \quad 3$$

$$\square \quad \square \equiv 2 \quad \square \quad \square$$

80.

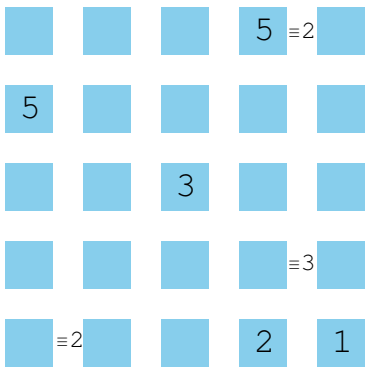
$$\square \quad \square \quad \square \equiv 2 \quad \square \quad 1$$

$$\square \quad \square \quad \square \quad \square$$

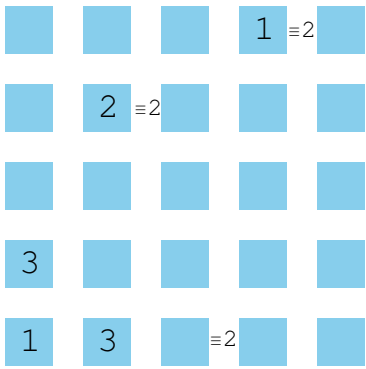
$$\square \quad \square \equiv 2 \quad \square \quad \square \quad 4$$

$$\square \equiv 2 \quad \square \quad \square \quad \square$$

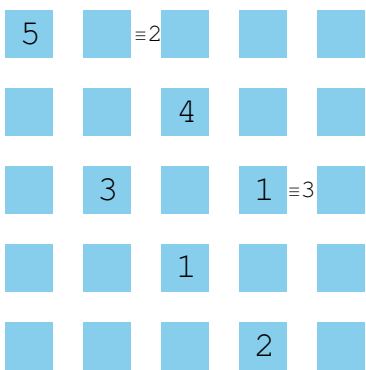
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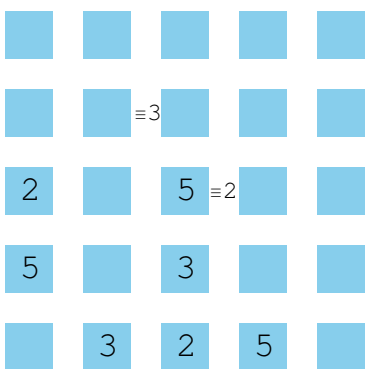
10.



11.



12.



13.

	1			
			1	
		5		3
5	$\equiv 3$			
		3		

14.

		3	$\equiv 2$	
	5			
	2			4
		4		1
			2	

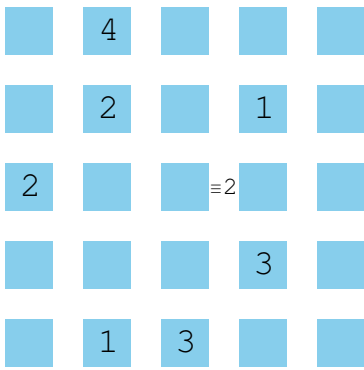
15.

	$\equiv 3$			3
	3		$\equiv 3$	
	4			
		2	$\equiv 3$	
				1

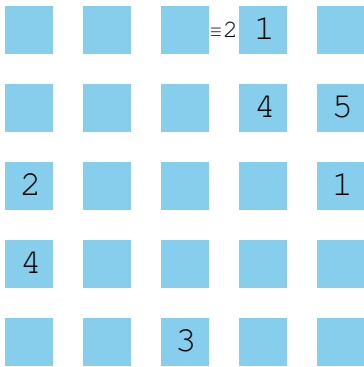
16.

		1 $\equiv 3$		
	$\equiv 3$			
1				2
		2	3	
5		3		

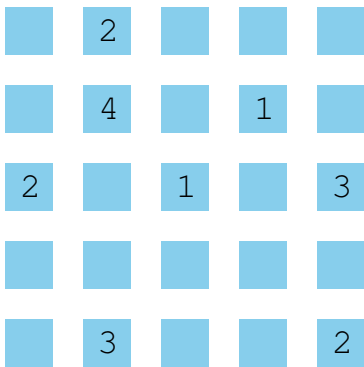
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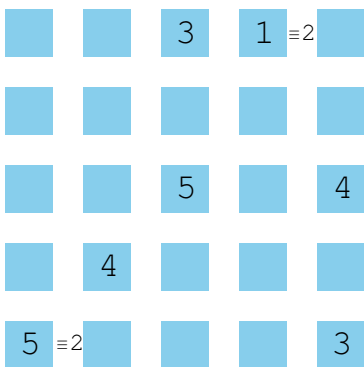
18.



19.



20.



21.

	4		3	
	2	3		
		1	4	
4				5

22.

	4			1
	$\equiv 2$	5	1	
1		2		
				2

23.

$\equiv 2$			5	
		1		
1	3	$\equiv 2$		
5		3	4	

24.

		5		
	1	2	$\equiv 2$	
	$\equiv 2$		3	2
	2			5

25.



□ 1 □ □ ≡<sub>3</sub> 5

□ □ □ □ 1

□ ≡<sub>3</sub> □ □ □ ≡<sub>3</sub> □

□ 2 □ □ □

□ □ 2 □ □

26.

3 □ □ □ □

□ ≡<sub>3</sub> □ □ 4 □

□ 5 □ □ ≡<sub>3</sub> □

□ □ □ ≡<sub>3</sub> 5 □

□ □ □ □ □

27.

□ 3 □ ≡<sub>3</sub> □ □

4 5 ≡<sub>2</sub> □ □ 2

□ □ 4 □ □

□ □ □ 5 4

□ □ □ □ □

28.

□ □ □ □ □

□ 2 □ □ 1

□ □ □ □ ≡<sub>2</sub> 4

5 □ □ ≡<sub>2</sub> □ □

□ □ ≡<sub>2</sub> □ 3 □

29.

		1		4
2				
	5		2	
4				
			3	

30.

3			5	4
		$\equiv 2$		
				5
5			1	
		2		

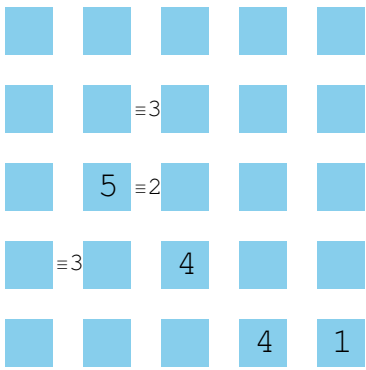
31.

			2	3
			$\equiv 2$	1
	$\equiv 2$		1	2
$\equiv 2$	3			4

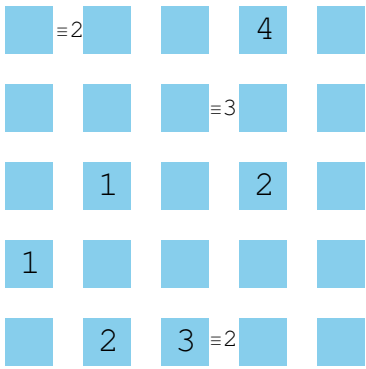
32.

	$\equiv 2$		2	
	1			4
3			$\equiv 2$	
	5	4		

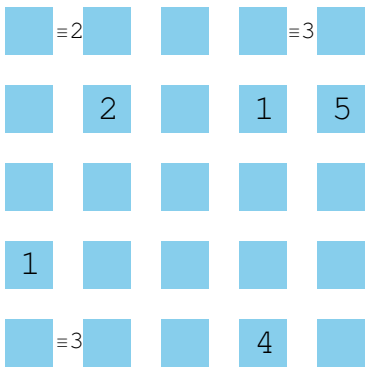
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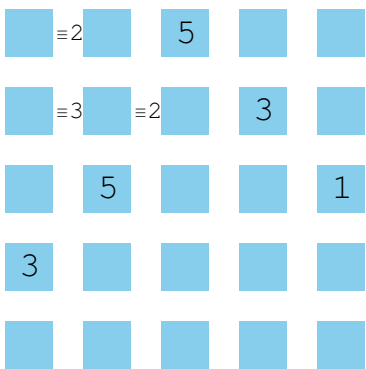
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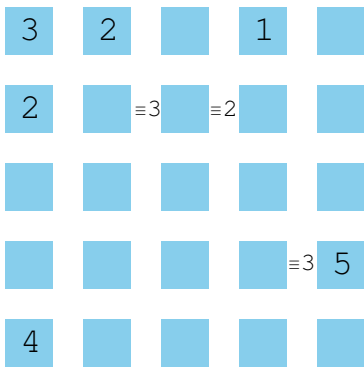
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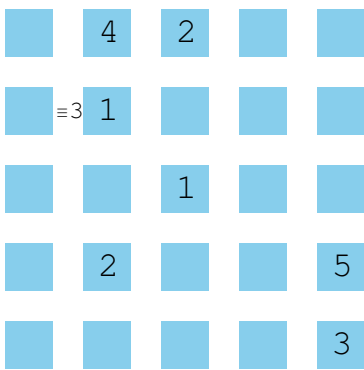
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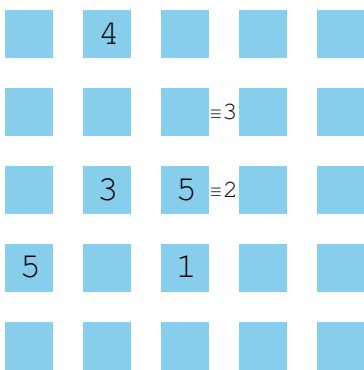
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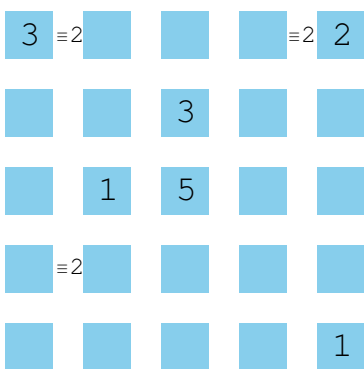
38.



39.



40.



41.

4	2			
		$\equiv 3$		
			1	
		4		1
		3		$\equiv 2$

42.

4	3			$\equiv 2$
3		$\equiv 2$		
5				
	4			
			1	

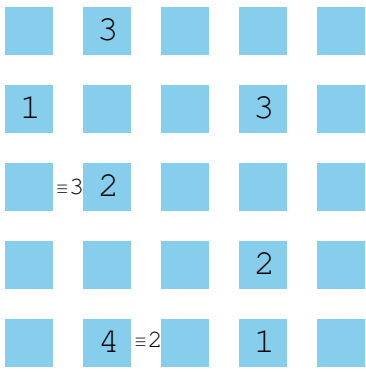
43.

3				
	5		3	
			$\equiv 3$	2
	$\equiv 2$			
	2		5	4

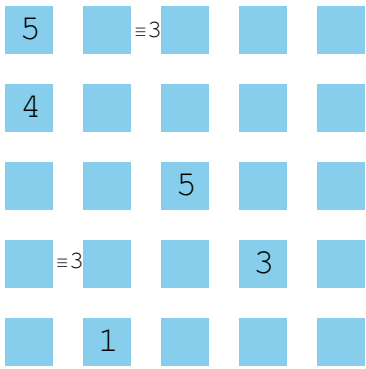
44.

				$\equiv 3$
	2			3
4			$\equiv 2$	
5			4	
				$\equiv 3$
				5

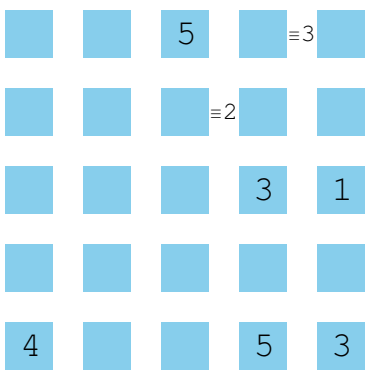
45.



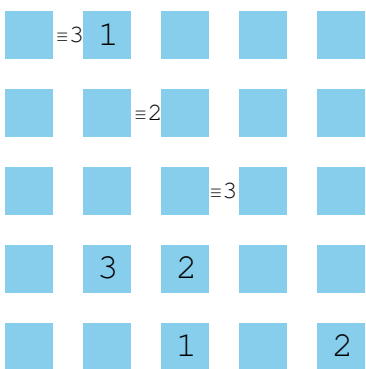
46.



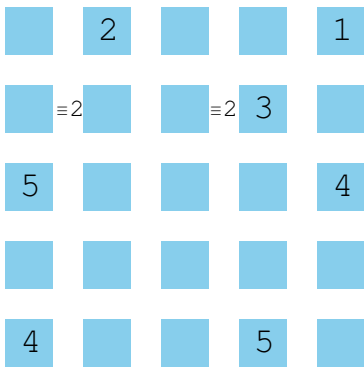
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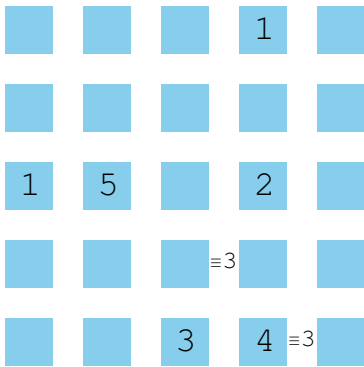
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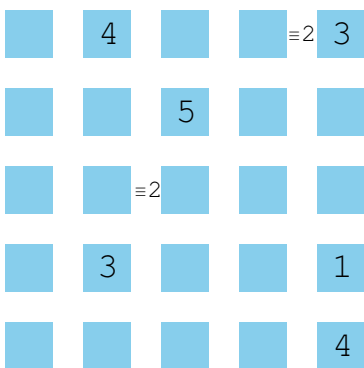
49.



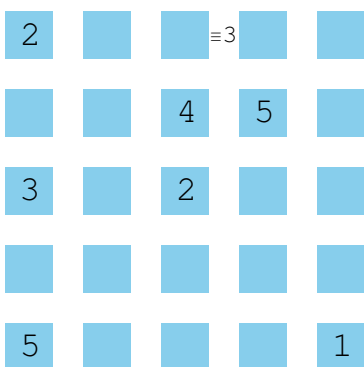
50.



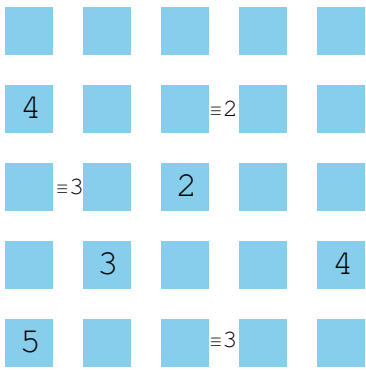
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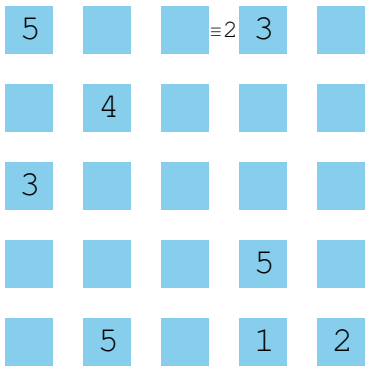
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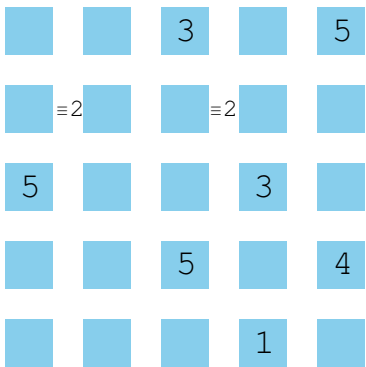
53.



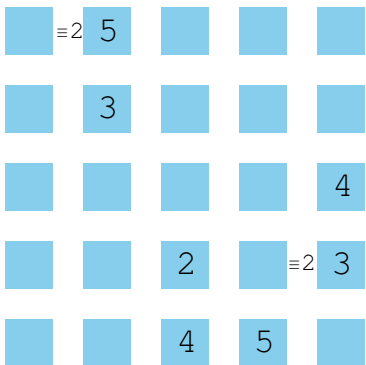
54.



55.

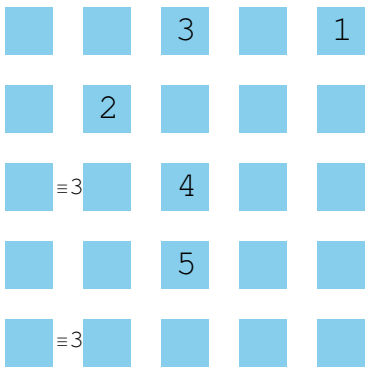


56.

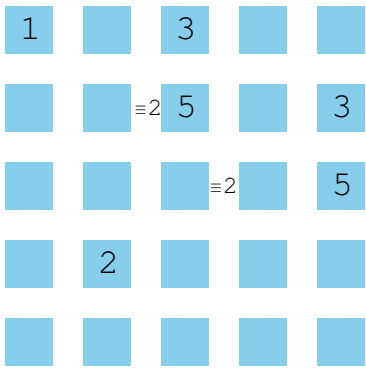


57.

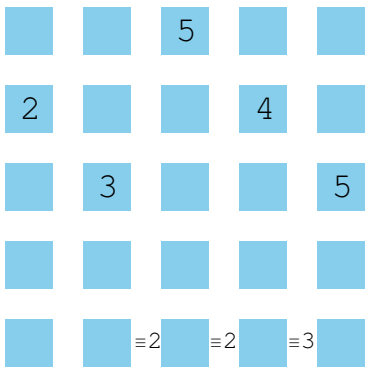




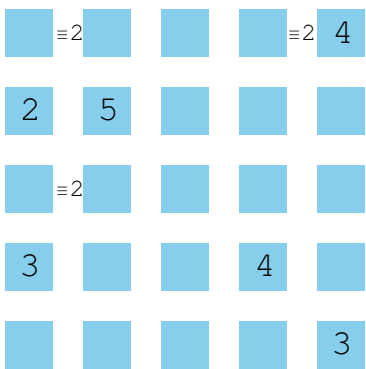
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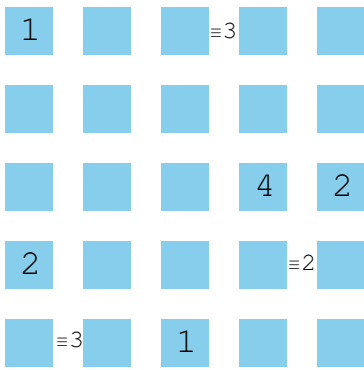
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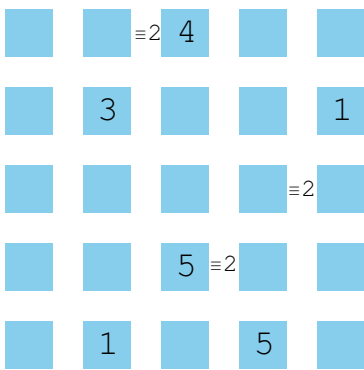
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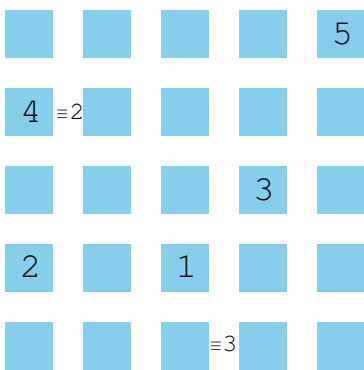
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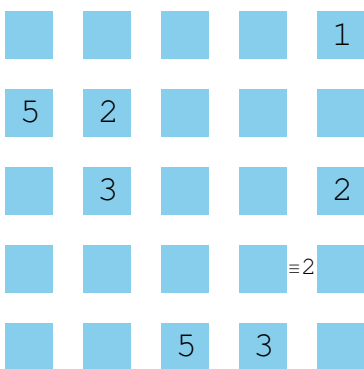
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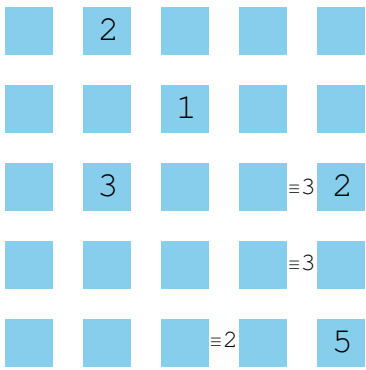
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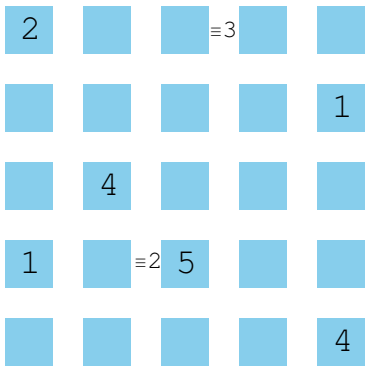
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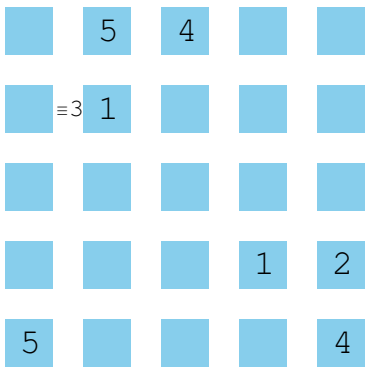
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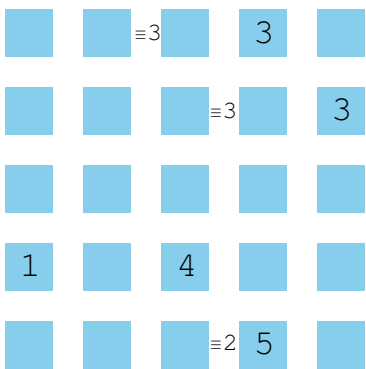
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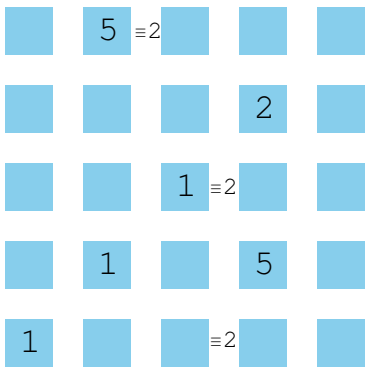
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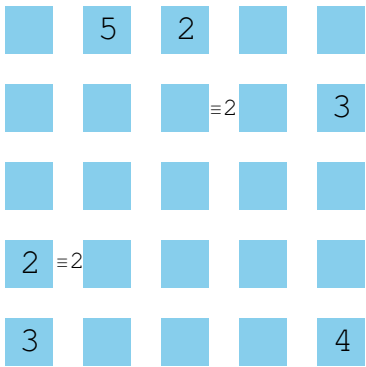
68.



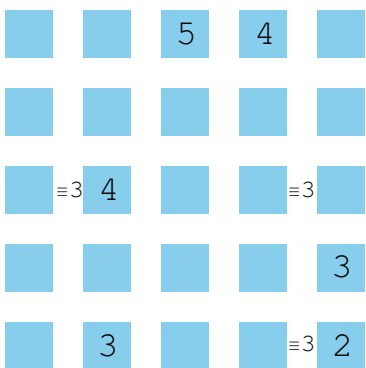
69.



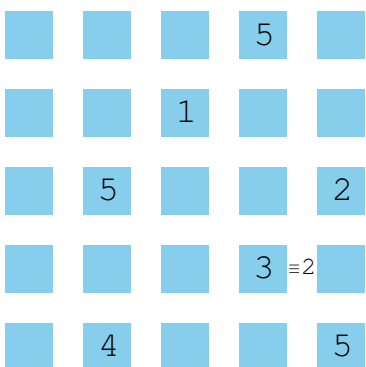
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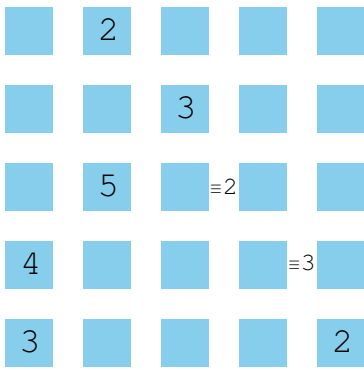
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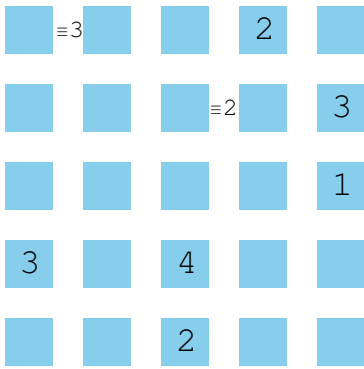
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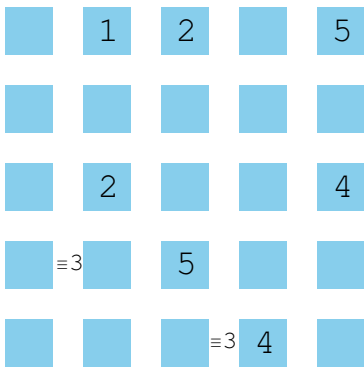
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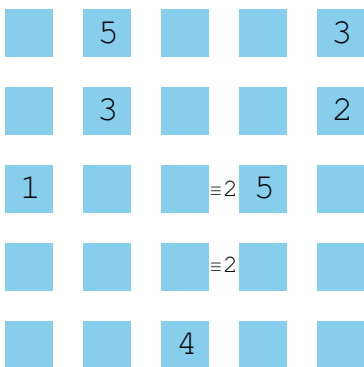
74.



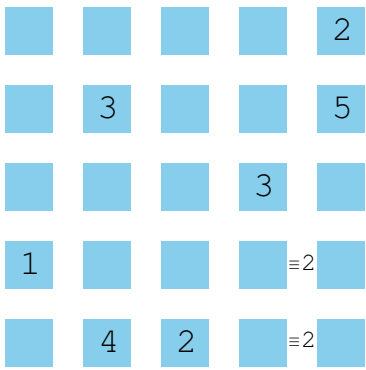
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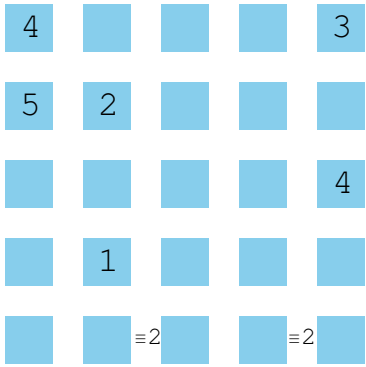
76.



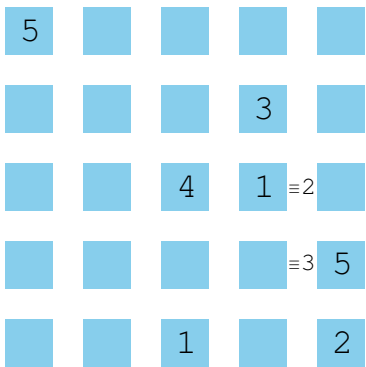
77.



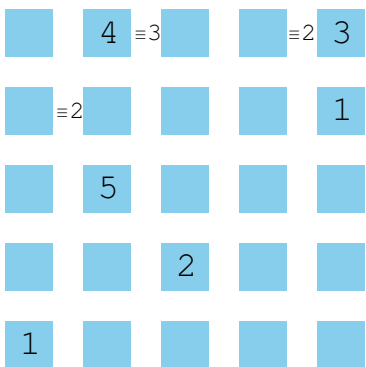
78.



79.



80.



81.

5  $\equiv_2$

4  $\equiv_2$

5  1

$\equiv_3$  4  3

82.

4  5

3

$\equiv_2$

1    2

3 2

83.

3  1

2

$\equiv_2$

4   $\equiv_2$

5 3

84.

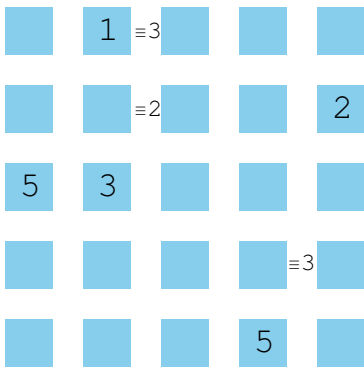
2  $\equiv_2$

2 4

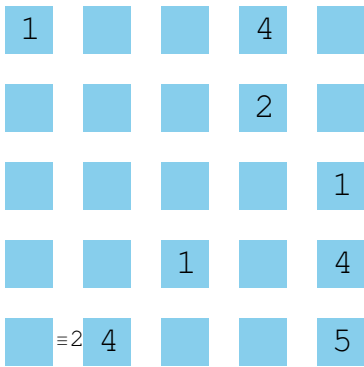
2     $\equiv_2$  1

1 3   2

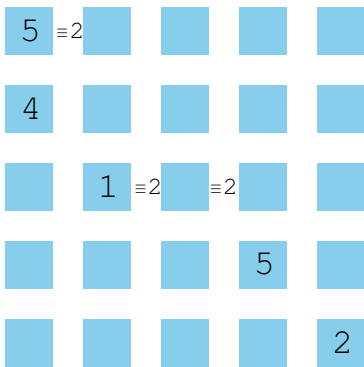
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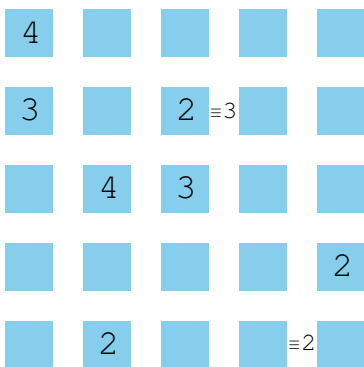
86.



87.

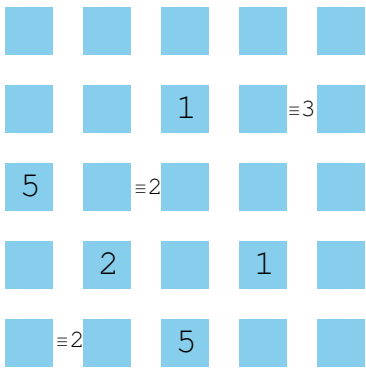


88.

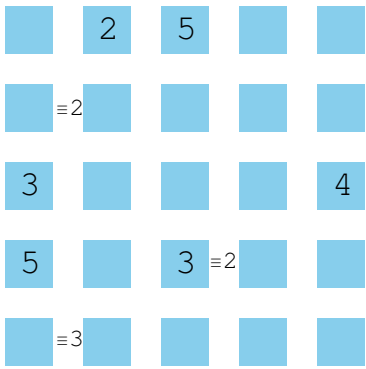


89.

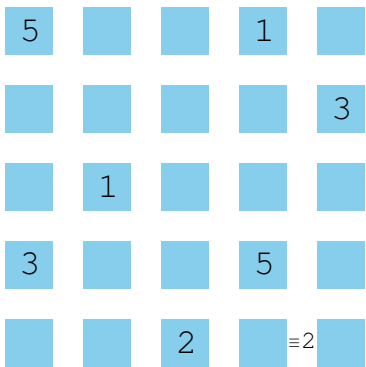




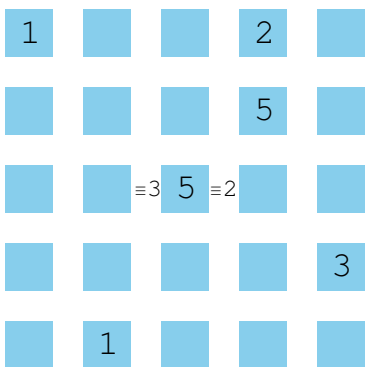
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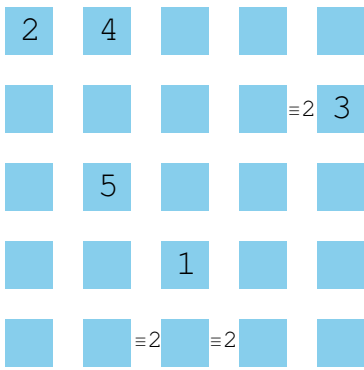
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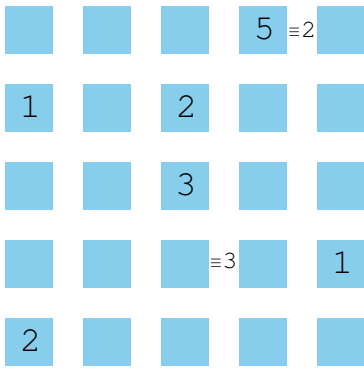
92.



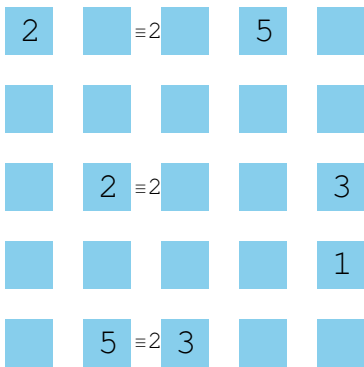
93.



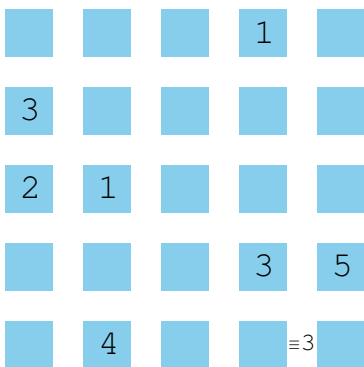
94.



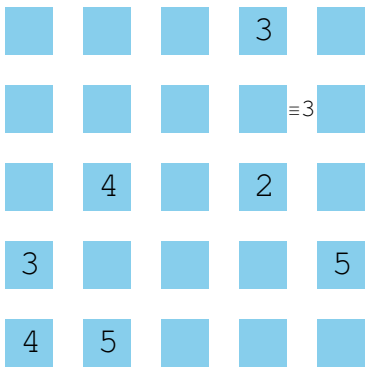
95.



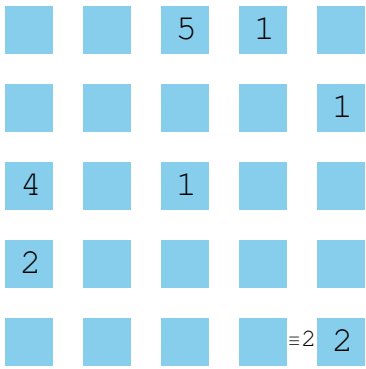
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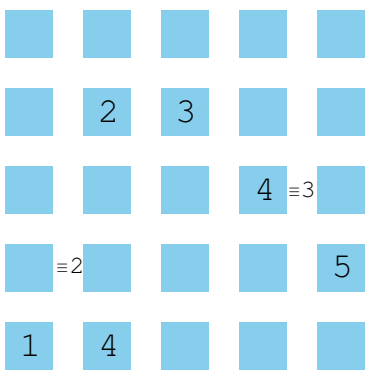
97.



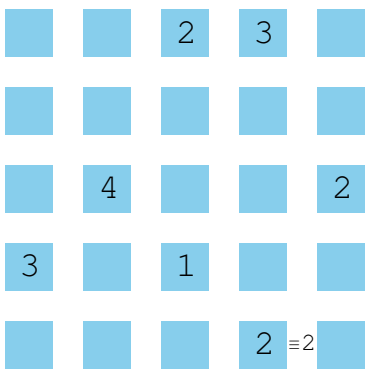
98.



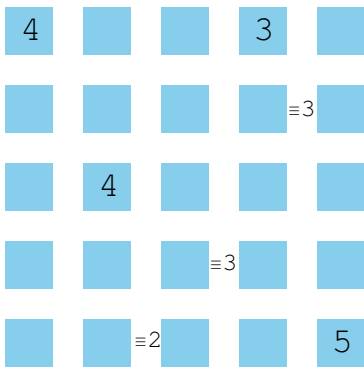
99.



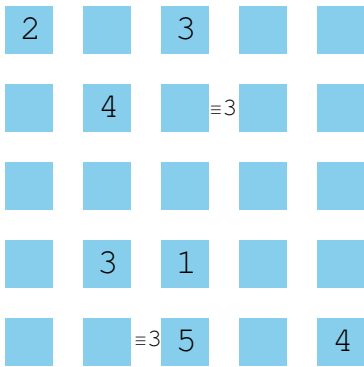
100.



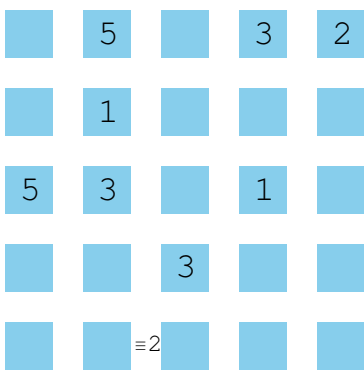
101.



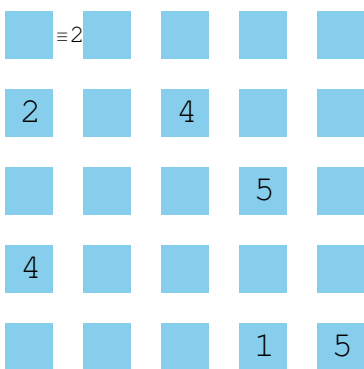
102.



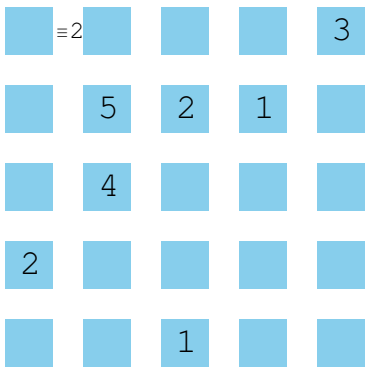
103.



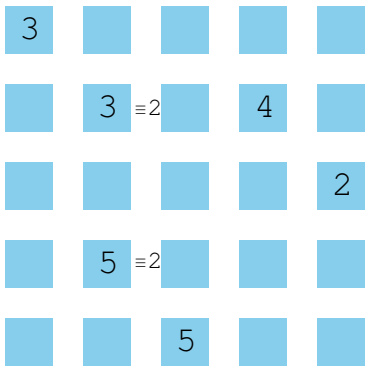
104.



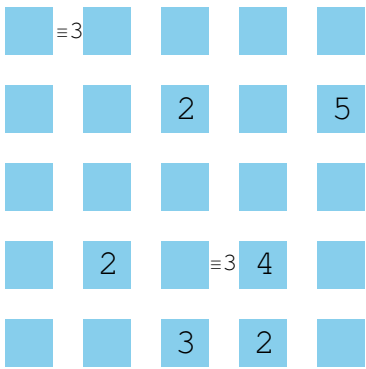
105.



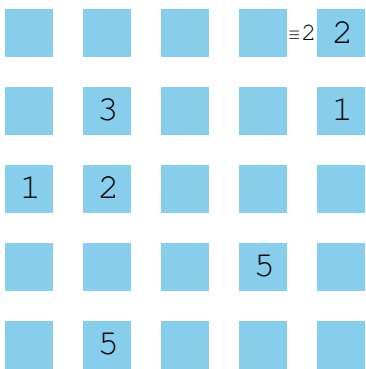
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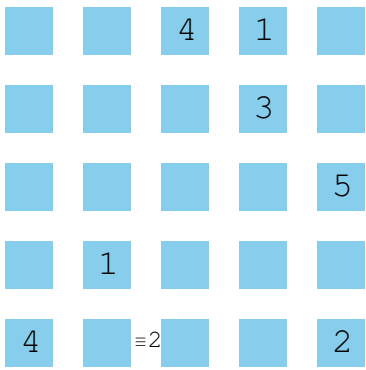
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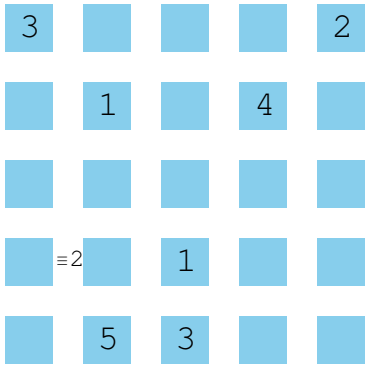
108.



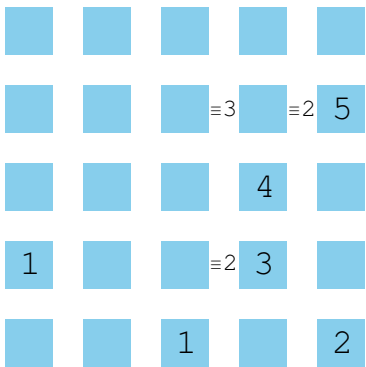
109.



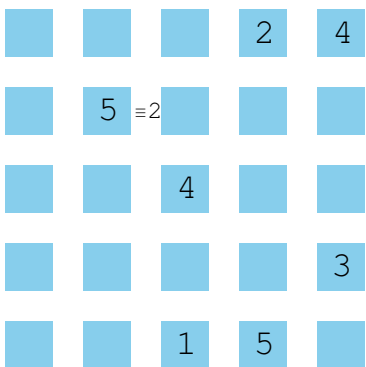
110.



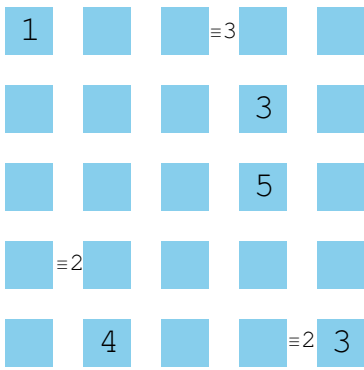
111.



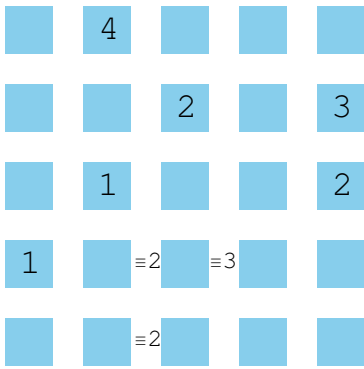
112.



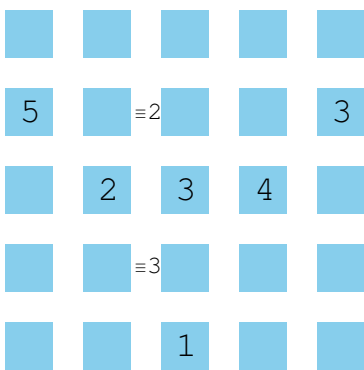
113.



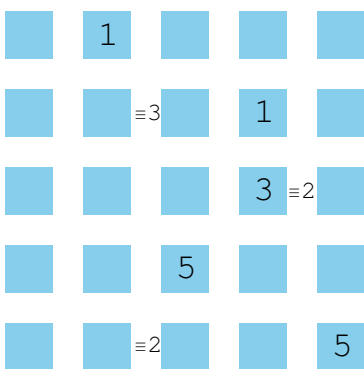
114.



115.



116.



117.

■ ■ 1 ■ 4

1 ■ 2 ■  $\equiv 2$  ■

■ ■ ■ ■ ■

■  $\equiv 2$  ■ ■ ■ 1

■ ■ 3 1 5

118.

■ ■ ■ ■ 3

■ 3 1 ■ ■

■ 2 ■ ■  $\equiv 2$  ■

2 ■  $\equiv 2$  ■  $\equiv 2$  ■ ■

■ 5 ■ 4 ■

119.

■ 4 ■ ■ ■

■ 5 ■ 1 ■

■ ■  $\equiv 2$  ■ ■ 1

■ ■  $\equiv 3$  ■ 2 ■

1 ■ ■ ■ ■

120.

■ ■  $\equiv 3$  1 ■ ■

■ 2 ■ ■ ■

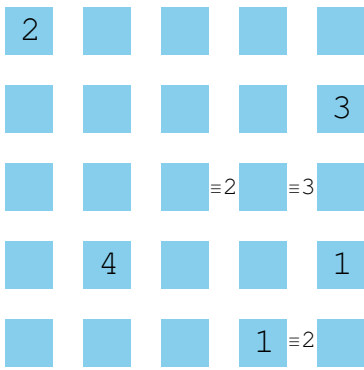
■  $\equiv 3$  ■ ■ 2 ■

■  $\equiv 2$  ■ 5 ■ ■

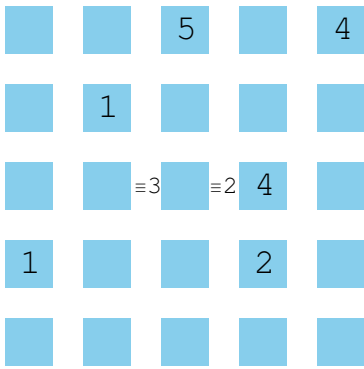
■ ■ ■ ■ ■

121.

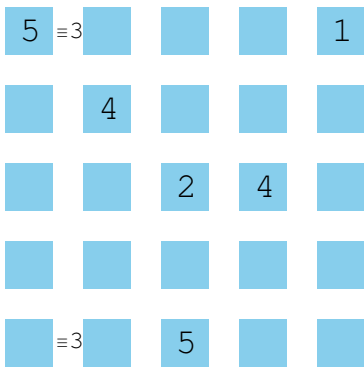




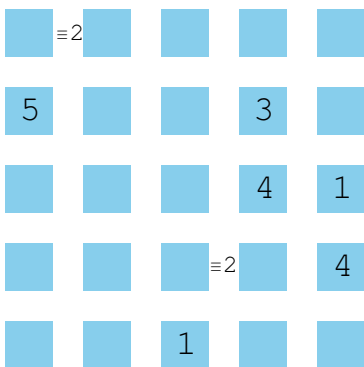
122.



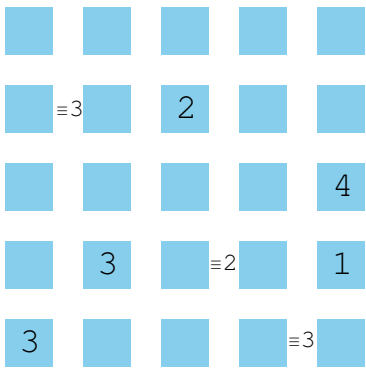
123.



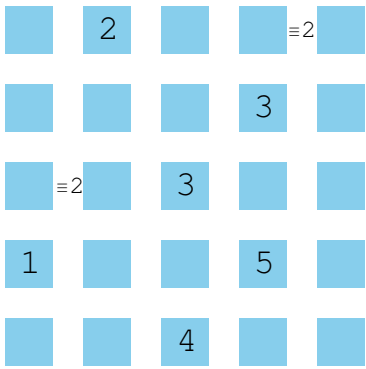
124.



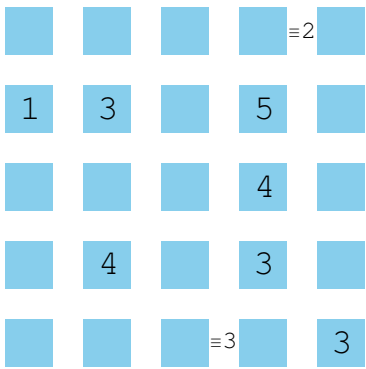
125.



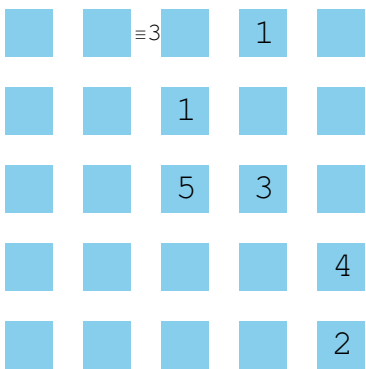
126.



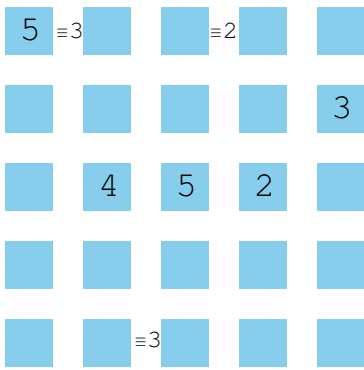
127.



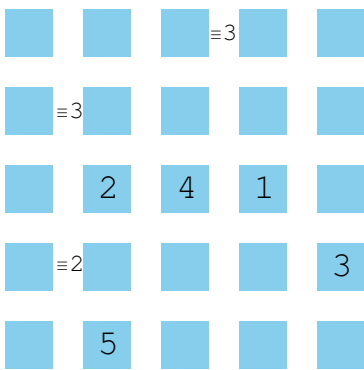
128.



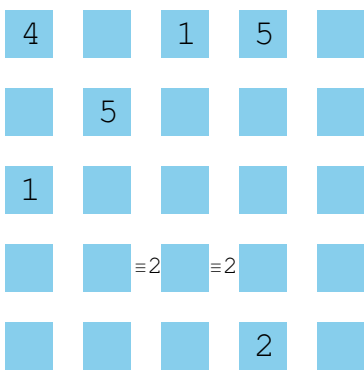
129.



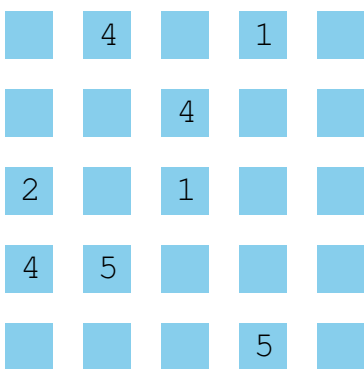
130.



131.



132.



133.

■ ■ ■ ■  $\equiv 2$  ■

■ 1 ■ 5  $\equiv 2$  ■

4 ■ ■ ■ ■

■  $\equiv 3$  ■ ■ ■ ■

3 ■ ■ ■ 2

134.

■ ■ ■ ■ 2

■ ■ 3 ■ ■

5 ■ ■ 2 1

■ ■ ■ ■  $\equiv 2$  ■

1  $\equiv 2$  ■ ■ ■ 3

135.

■ ■  $\equiv 2$  ■ ■ ■

■  $\equiv 2$  ■ 3 ■ ■

■ ■ ■ 2 ■

■ ■ ■  $\equiv 2$  5 ■

■ ■ ■ ■ 2

136.

■ ■ ■ 4 ■

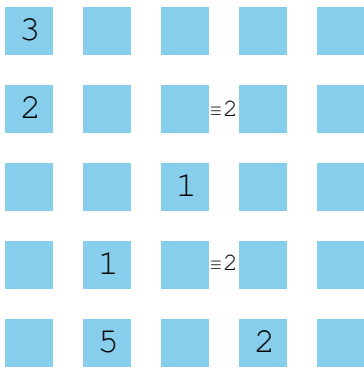
■ 5 ■ ■ ■

2 ■ ■ 1  $\equiv 2$  ■

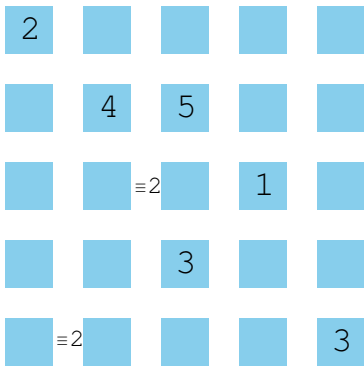
■ ■ ■ ■ 3

■ 4 ■ 5 ■

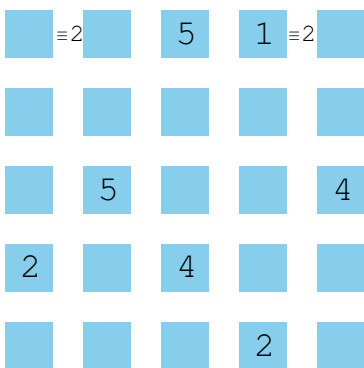
137.



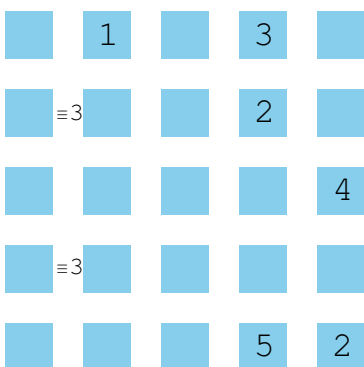
138.



139.



140.



141.

□ 3 □ □ 1

1 5  $\equiv 2$  □ □ □

□ □ □ 5 □

□ 1 □ □ □

4 □ □  $\equiv 2$  □ □

142.

2 □ □ □  $\equiv 2$  □

□ □ 1 □ □

□ 1  $\equiv 3$  □ □ □

3 □ □ □ □

□ □ □ □ 2

143.

□ 3 □ □  $\equiv 3$  5

□ □ □  $\equiv 2$  □ 2

□ □ □ □ □

□ □ 5 4 □

□ 5 4 □ 1

144.

□ □ 5 □ 1

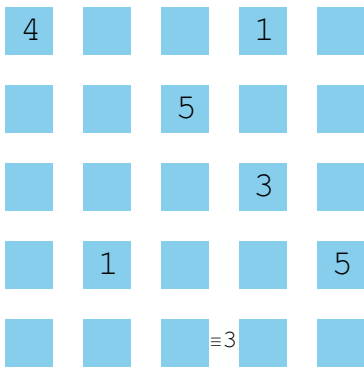
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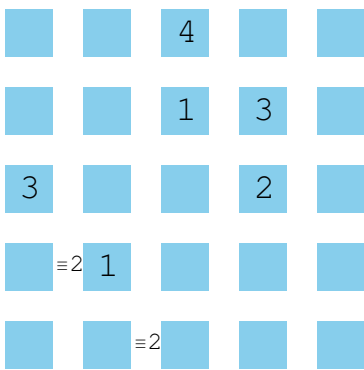
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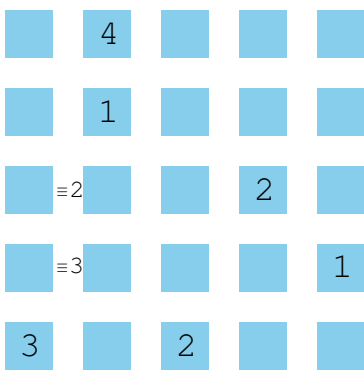
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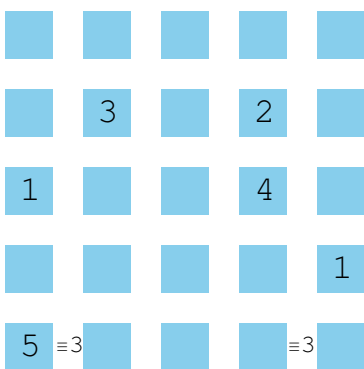
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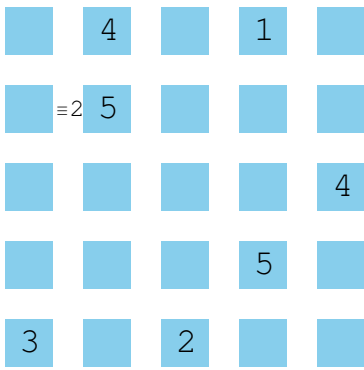
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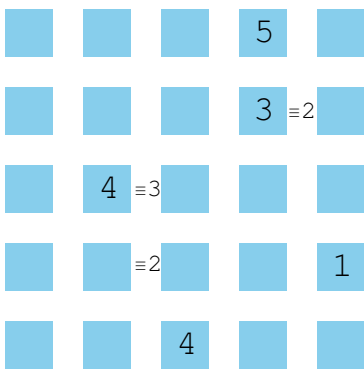
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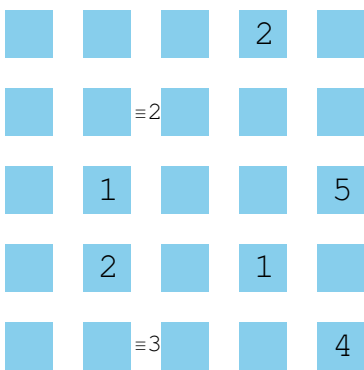
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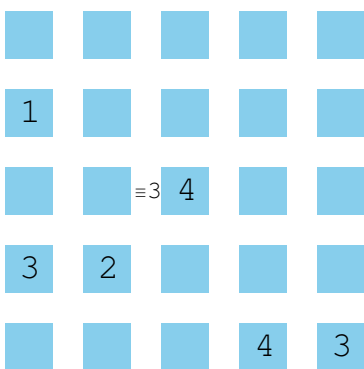
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151.



152.



153.



■ ■ ■ ■ 3

■ ■ 4 ≅2 ■ ■

2 ■ ■ ■ ■

3 ■ ≅2 ■ ■ ■

■ ■ 1 ■ 4

154.

1 ■ ■ ≅3 ■ ■

■ ■ ≅2 ■ 1 ■

■ ■ ■ ■ 4

■ ■ 1 ■ ≅3 ■

■ ■ ■ ■ ■

155.

■ 4 ■ 5 ≅2 ■

■ ■ 2 ■ ■

■ ■ ■ ■ 5

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■ 1 ■ ■ ≅2 4

156.

■ 3 5 ■ ■

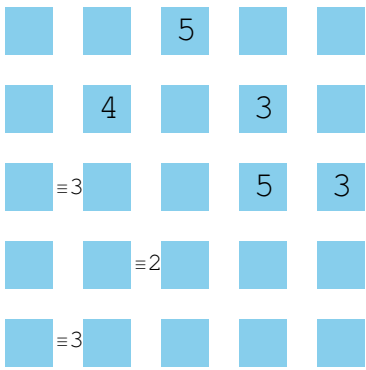
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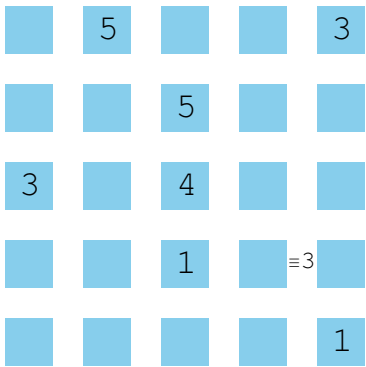
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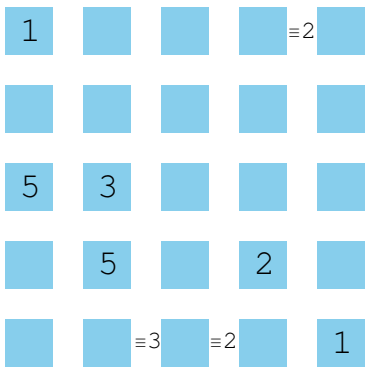
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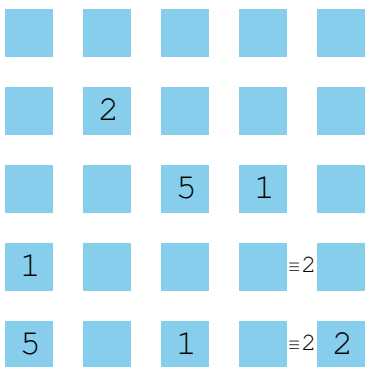
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159.



160.



17.

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18.

		6		
$5 \equiv_2$			3	2
4		5		
				$\equiv_2$
			2	
$\equiv_2 2$		1		4

19.

		5		$6 \equiv_3$	
	5		4	3	
				5	2
		2			6
4	$\equiv_2$				

20.

1				4	
	6				
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5					6
			1	$\equiv_3 3$	
$\equiv_3$			4		

Rešitve

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68.

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69.

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70.

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71.

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72.

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74.

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76.

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77.



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78.

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79.

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80.

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81.

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82.

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83.

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84.

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86.

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87.

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88.

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89.

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92.

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93.

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94.

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96.

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97.

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98.

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99.

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101.

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102.

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104.

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105.

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106.

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107.

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108.

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109.



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112.

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113.

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114.

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115.

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116.

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117.

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118.

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119.

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120.

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121.

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122.

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124.

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125.

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126.

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127.

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128.

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129.

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130.

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131.

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132.

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133.

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134.

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135.

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136.

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137.

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138.

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139.

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140.

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141.



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142.

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143.

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144.

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145.

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146.

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147.

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148.

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149.

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150.

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151.

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153.

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154.

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155.

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156.

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157.

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158.

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159.

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160.

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17.

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18.

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19.

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