

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.

□	□	□	□
□ \equiv_2	2	□	□
3	□	2	□
□ \equiv_2	□	□ \equiv_2	1

2.

□	□	□	2
□ \equiv_3	□ \equiv_2	□	□
□	1	□	□
□	□	□	□

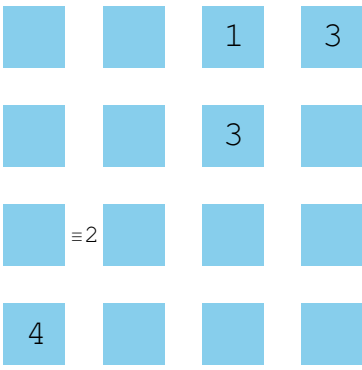
3.

□	□	□ \equiv_3	□
□	□	4	□
□ \equiv_2	□	□ \equiv_2	□
□	4	□	□

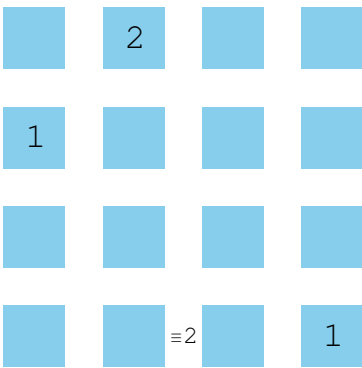
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□	1	□	□
□ \equiv_2	3	□	□
□	□	□	2
□	□	□	□

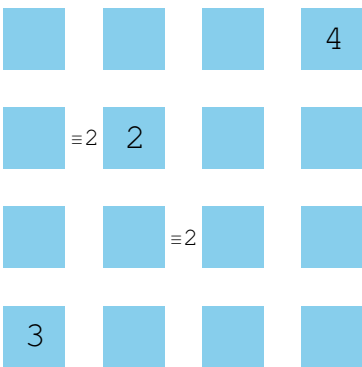
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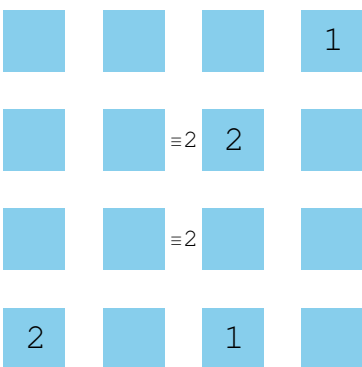
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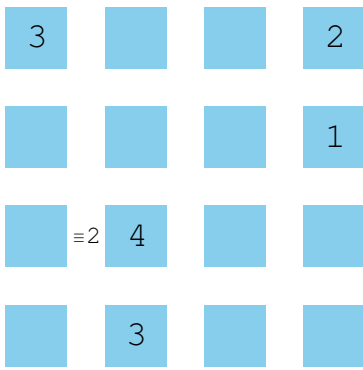
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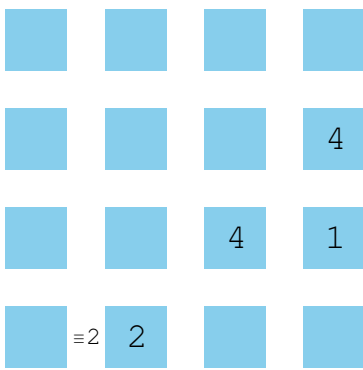
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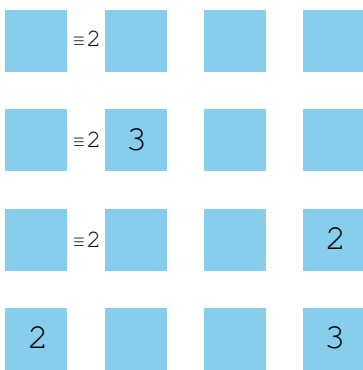
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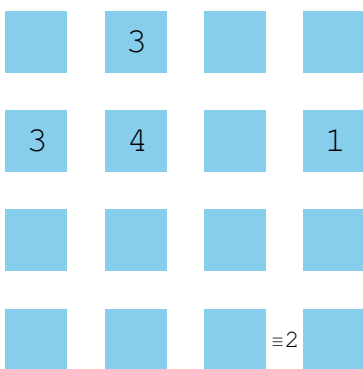
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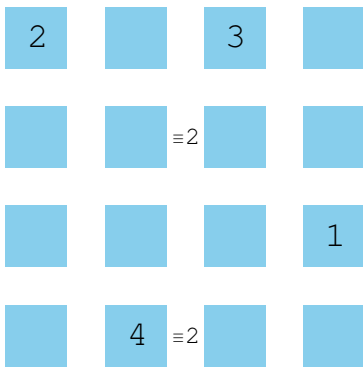
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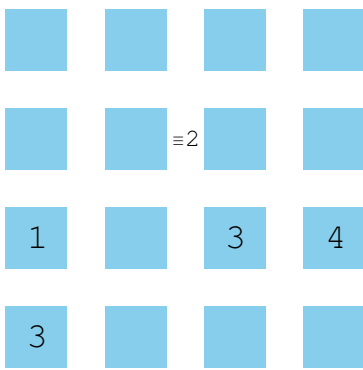
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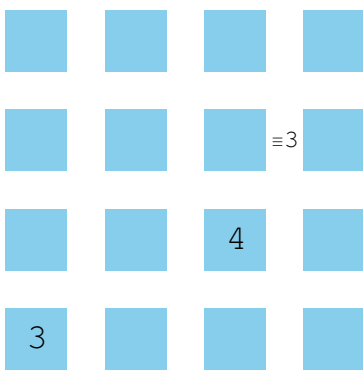
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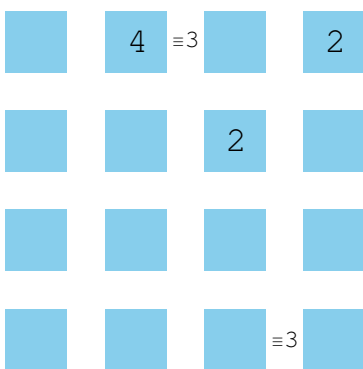
14.



15.



16.



17.

□ □ □ ≅₃ □

□ □ □ ≅₂ □

□ □ □ ≅₂ 3

□ 4 □ □

18.

4 □ 3 □

□ 3 2 □

□ □ □ □

□ ≅₂ □ □ ≅₂ 2

19.

□ □ □ □

□ □ □ 3

4 ≅₂ □ □ □

□ 4 □ □

20.

2 □ 4 ≅₃ □

□ 1 3 □

□ □ □ ≅₃ □

□ □ □ □

21.



22.



23.



24.



25.

1 □ 3 □

2 □ $\equiv 3$ □ □

□ □ □ □

□ 4 1 □

26.

□ □ □ 3

□ $\equiv 2$ □ □ □

□ □ □ $\equiv 3$ □

□ 4 □ 2

27.

□ 3 □ □

□ □ $\equiv 2$ □ 4

□ □ □ 1

□ □ 1 □

28.

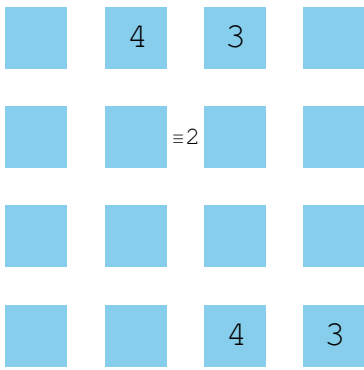
□ $\equiv 3$ 4 2 □

□ □ □ $\equiv 3$ □

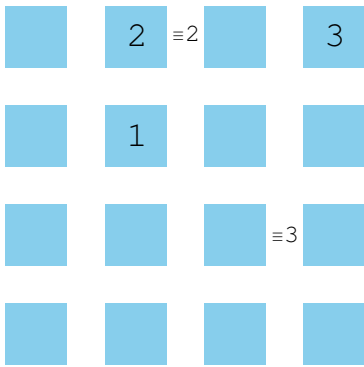
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3 □ 1 □

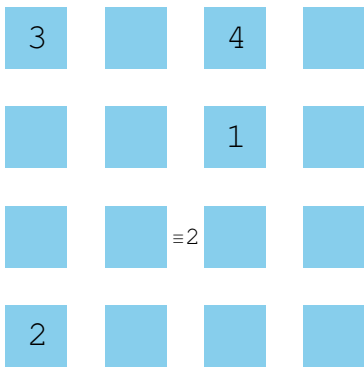
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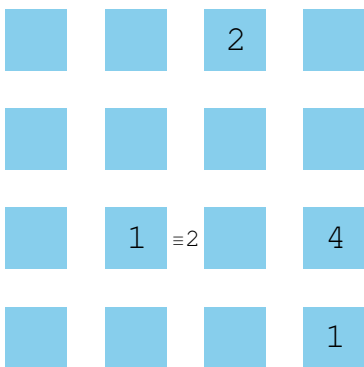
30.



31.



32.



33.

□ 4 2 □

□ $\equiv 2$ □ $\equiv 3$ □ $\equiv 2$ □

□ □ □ 4

□ □ □ □

34.

1 □ 3 □

2 □ □ □

□ □ 1 □

□ □ $\equiv 2$ □ □

35.

□ □ □ □

□ 4 □ □

□ □ $\equiv 2$ □ □

2 □ □ 3

36.

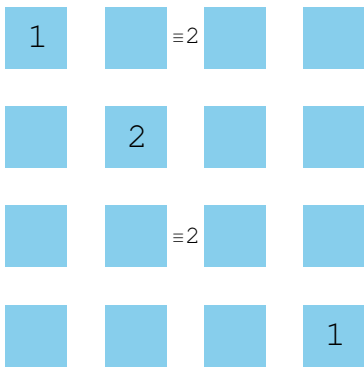
3 □ □ □

1 □ □ □

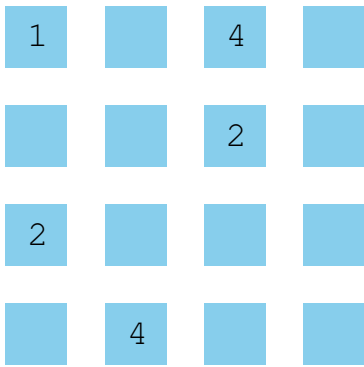
□ □ □ $\equiv 2$ □

□ 1 2 □

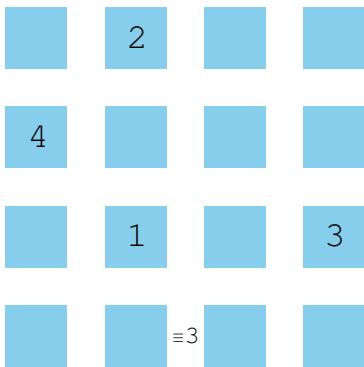
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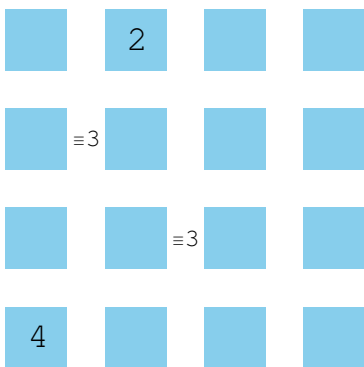
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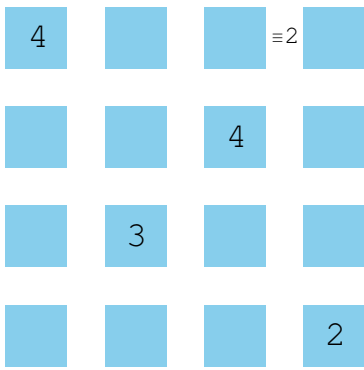
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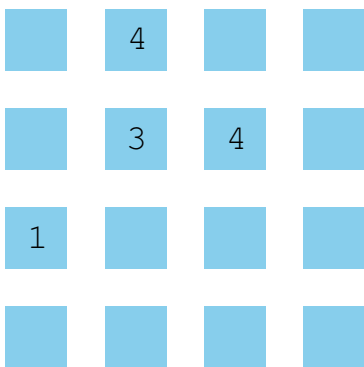
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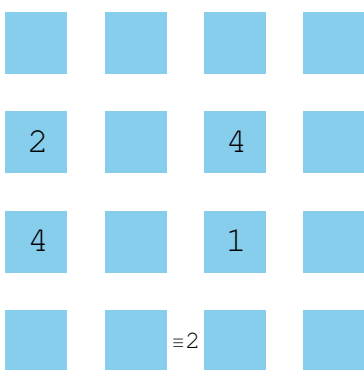
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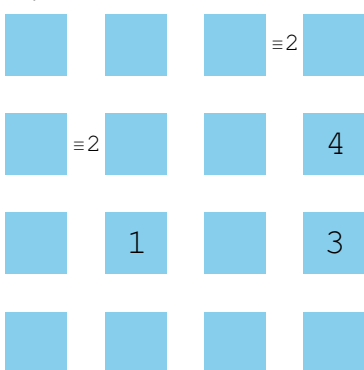
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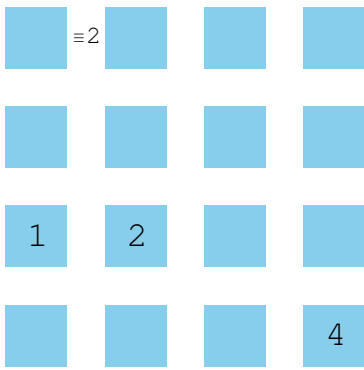
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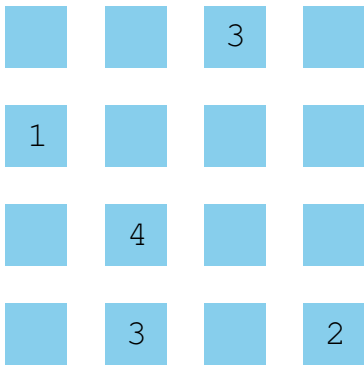
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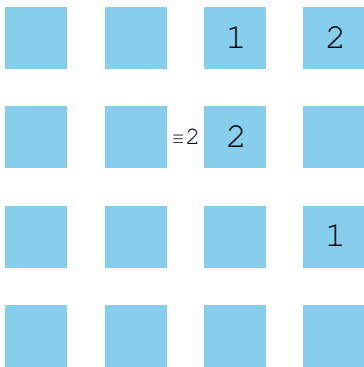
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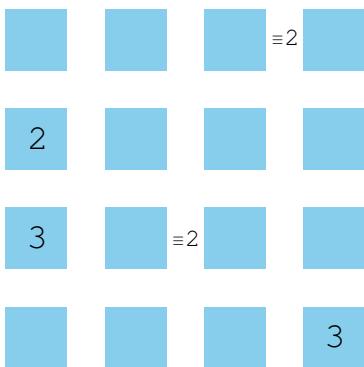
46.



47.



48.



49.

4 3

$\equiv 2$ 3

4

50.

3

$\equiv 3$ 3

4

2

51.

$\equiv 2$ 2

1

3

2

52.

$\equiv 2$ 1 $\equiv 2$

4

2 $\equiv 2$

1

53.

□ ≅₂ □ □ □

□ ≅₂ 1 □ ≅₂ □

□ 2 3 □

4 □ □ □

54.

1 2 □ □

□ ≅₃ □ □ □

□ □ 4 □

□ □ □ □

55.

□ □ □ □

4 □ ≅₂ □ □

□ ≅₂ □ □ □

3 □ 2 □

56.

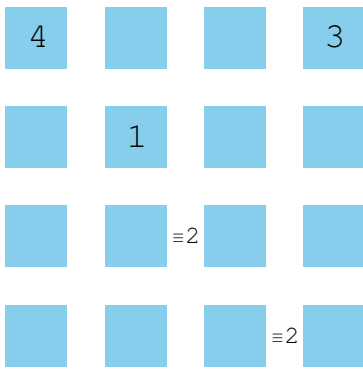
□ ≅₂ □ 4 □

□ □ ≅₂ □ □

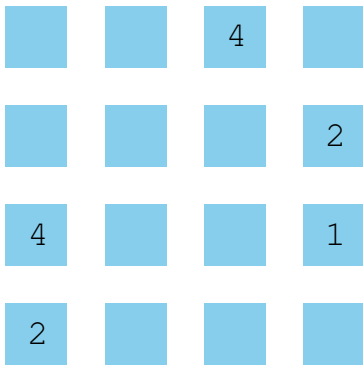
□ ≅₃ □ □ □

□ □ □ □

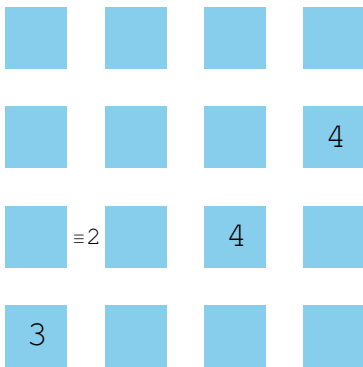
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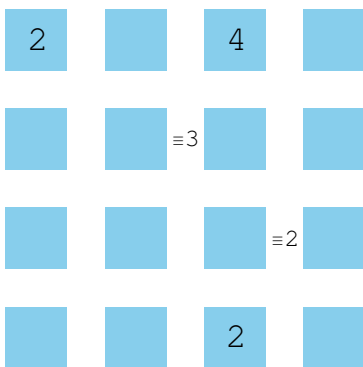
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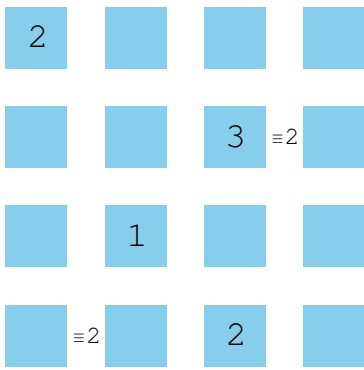
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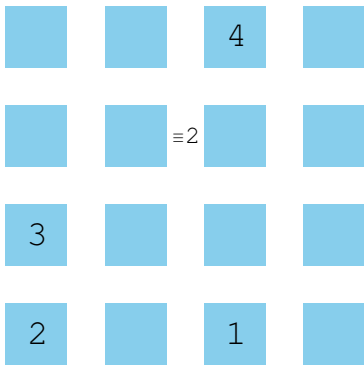
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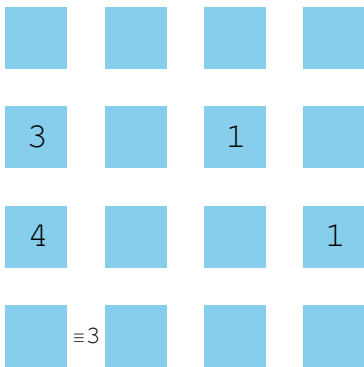
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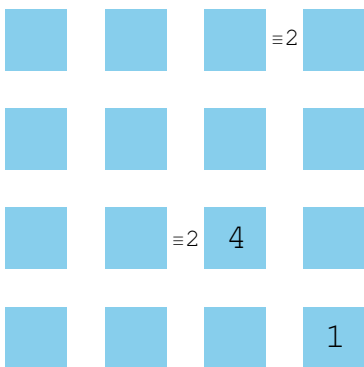
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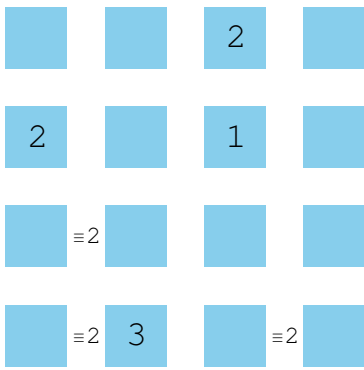
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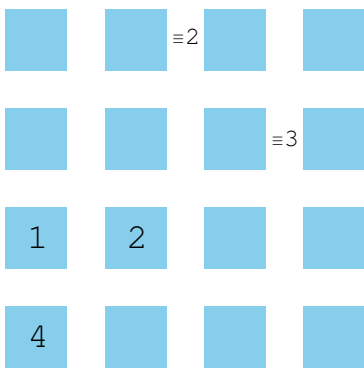
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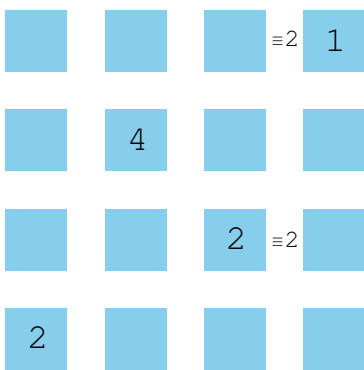
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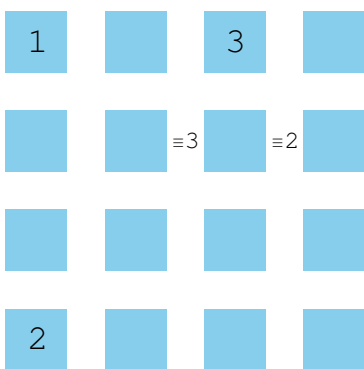
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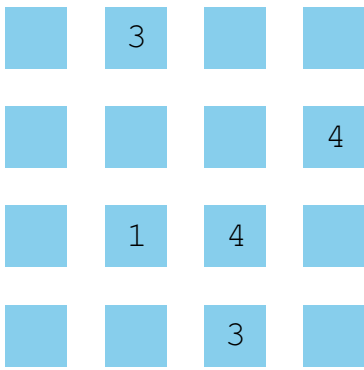
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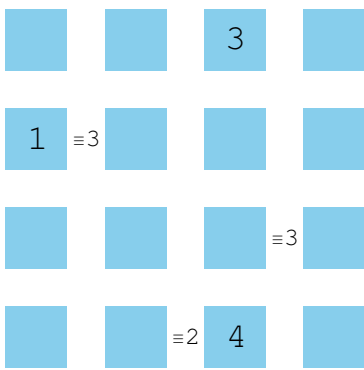
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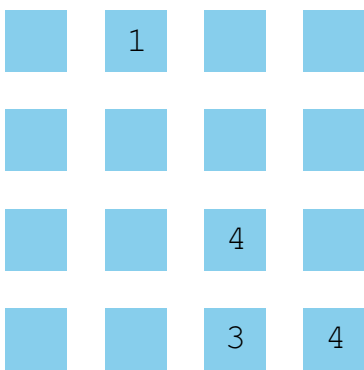
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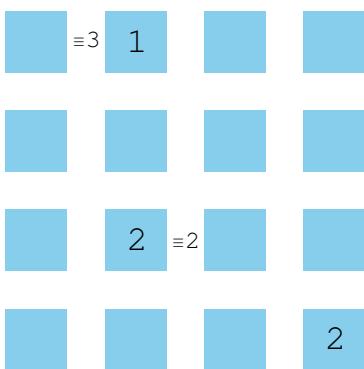
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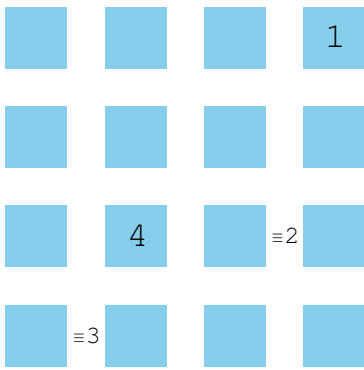
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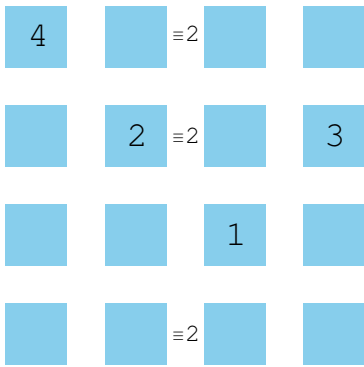
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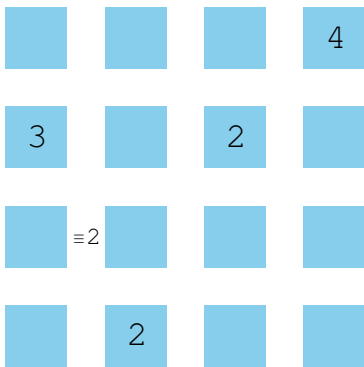
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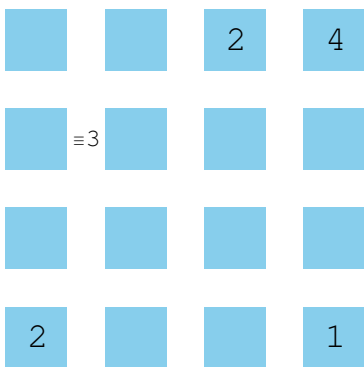
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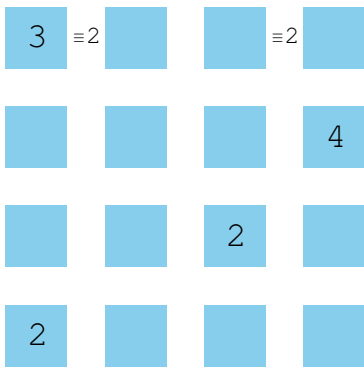
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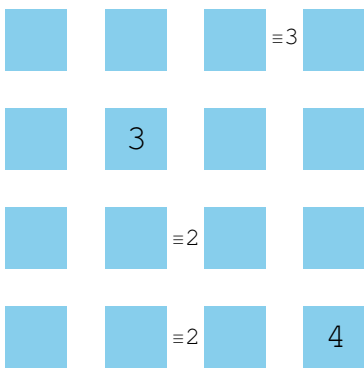
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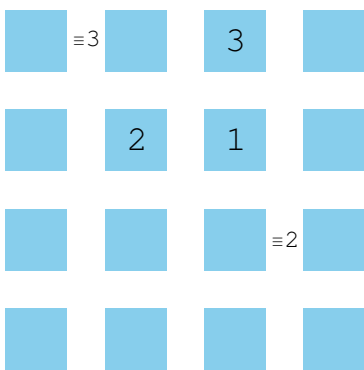
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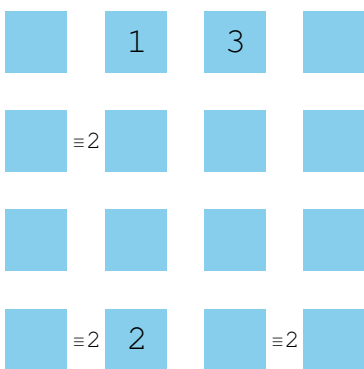
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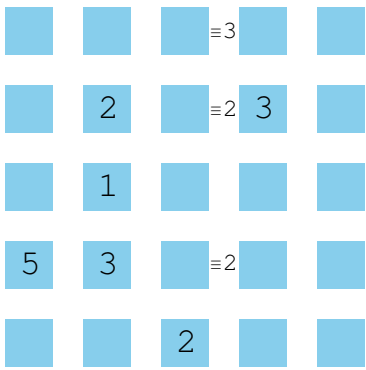
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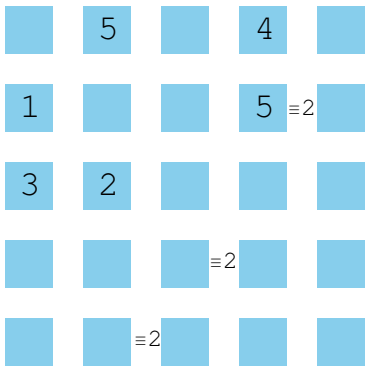
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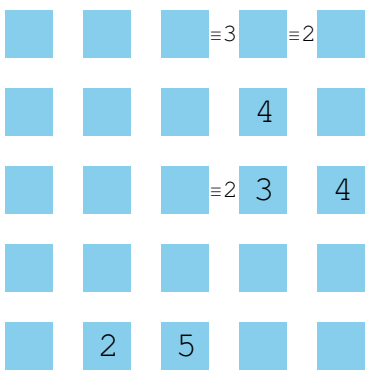
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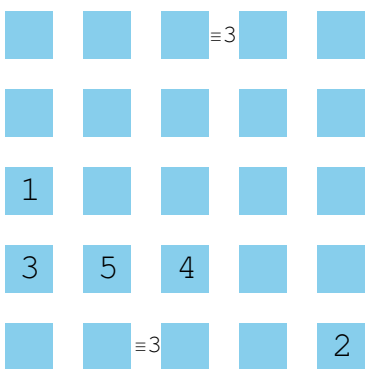
10.



11.



12.



13.

			5	4
				2
1		3		
		2		
	4			

14.

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

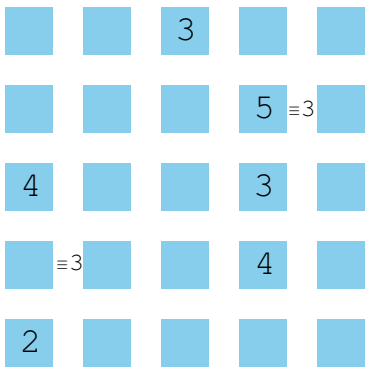
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			$\equiv 3$	
5				4
	2			
	1			
$\equiv 2$			3	

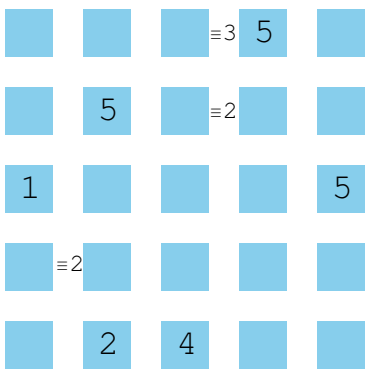
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		2		1
			2	$\equiv 2$
1	$\equiv 2$			3
$\equiv 2$		5		

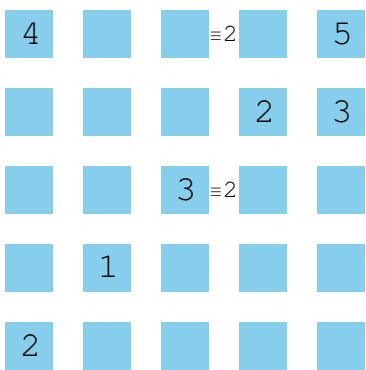
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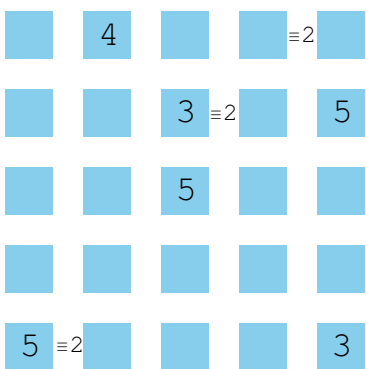
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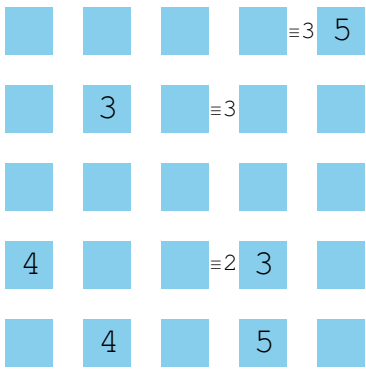
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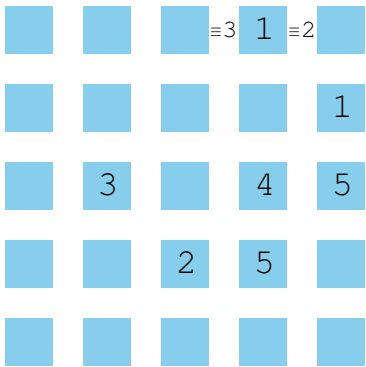
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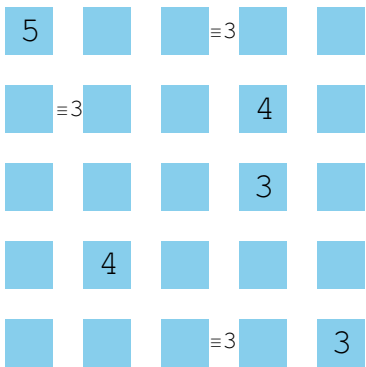
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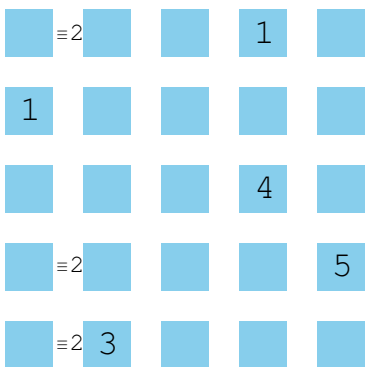
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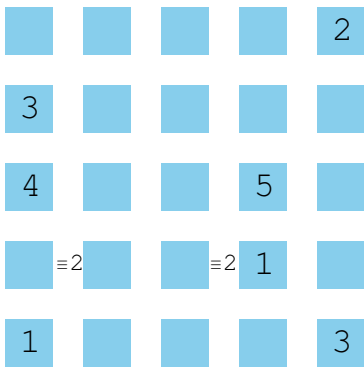
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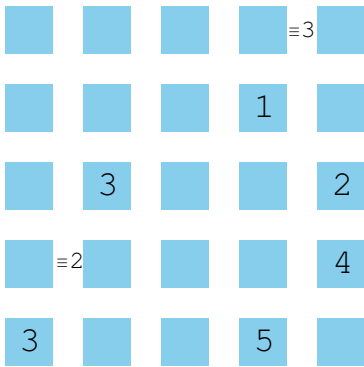
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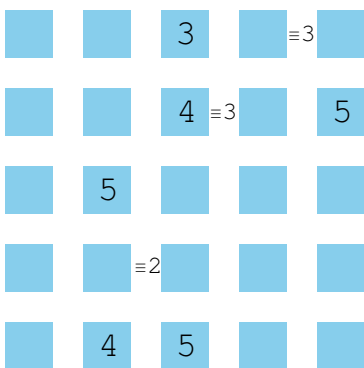
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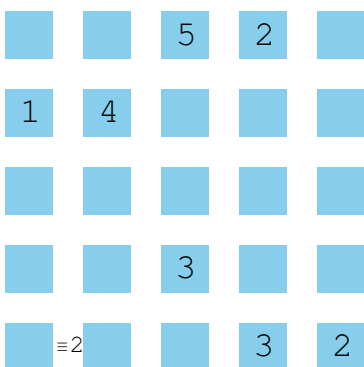
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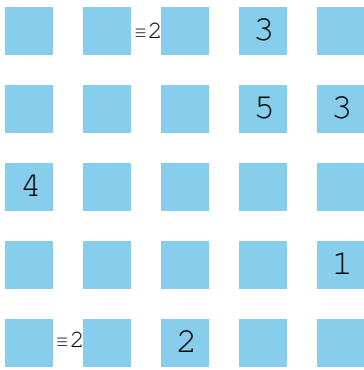
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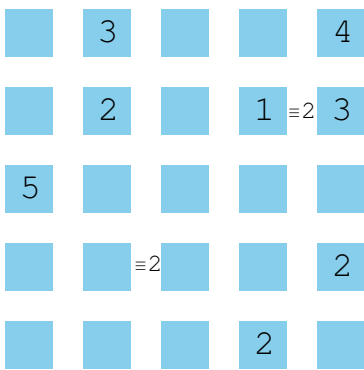
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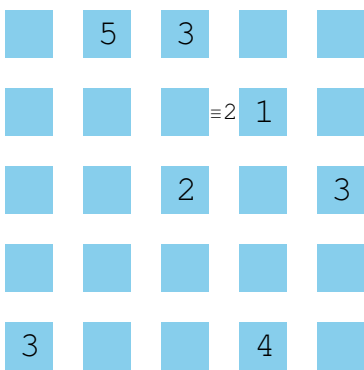
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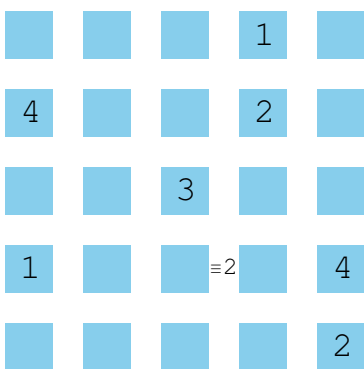
30.



31.



32.



33.

■ ■ 3 \equiv 2 ■ ■

■ 2 \equiv 3 ■ 4 ■

■ 3 ■ ■ 2

4 ■ ■ ■ ■

1 ■ ■ ■ ■

34.

5 ■ ■ 1 ■

■ ■ ■ ■ \equiv 2 ■

4 ■ ■ ■ ■

■ 1 ■ 3 ■

■ \equiv 2 ■ 2 ■ 5

35.

■ 1 3 ■ ■

■ 4 ■ ■ ■

■ ■ ■ 2 ■

■ ■ \equiv 2 ■ ■ 3

■ 3 ■ ■ 2

36.

■ ■ 2 ■ 5

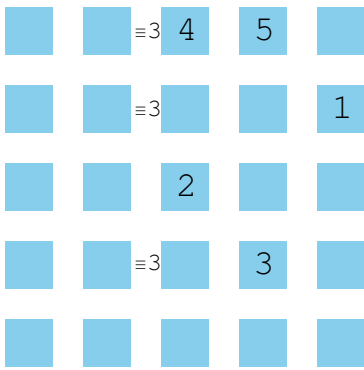
■ 1 ■ ■ ■

■ ■ \equiv 2 ■ 4 ■

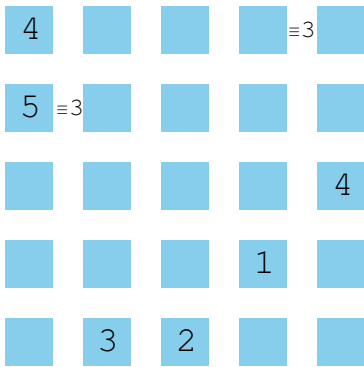
■ ■ ■ ■ 4

■ 2 \equiv 2 ■ 1 ■

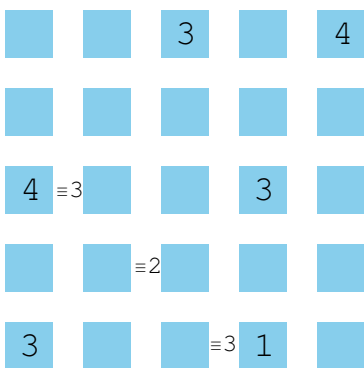
37.



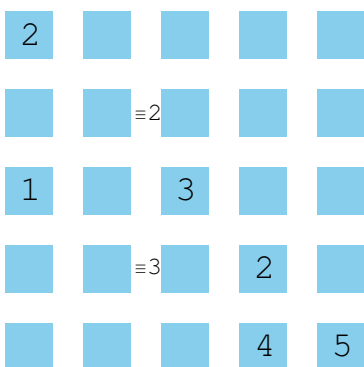
38.



39.



40.



41.

3 ■ ■ ■ $\equiv 3$ ■

■ ■ 4 ■ $\equiv 2$ ■

■ 1 ■ ■ ■

■ ■ ■ 2 ■

5 ■ ■ ■ 3

42.

■ 2 ■ ■ ■

■ ■ ■ ■ $\equiv 3$ 5

■ 5 ■ ■ $\equiv 3$ 1

■ $\equiv 3$ ■ ■ 3 ■

■ ■ 4 ■ ■

43.

■ ■ ■ 2 ■

■ 1 ■ $\equiv 2$ ■ ■

3 ■ ■ ■ ■

■ ■ 3 ■ 5

■ ■ 1 $\equiv 3$ ■ ■

44.

■ $\equiv 2$ ■ ■ 1 ■

■ ■ ■ 4 1

1 ■ ■ $\equiv 2$ ■ ■

3 $\equiv 2$ ■ 4 ■ ■

■ ■ ■ ■ 2

45.

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

46.

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

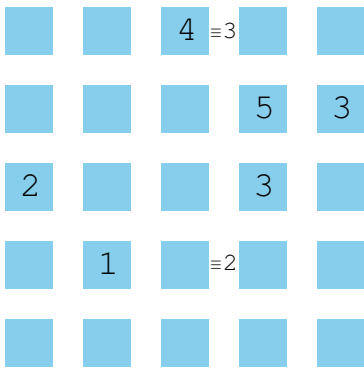
47.

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

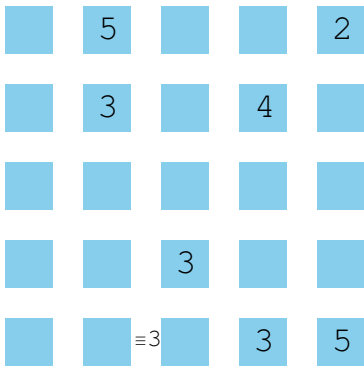
48.

				2
	1		4	
5	4		1	
		4	2	

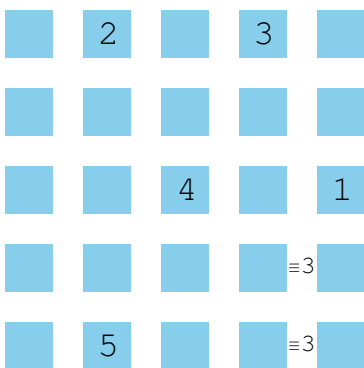
49.



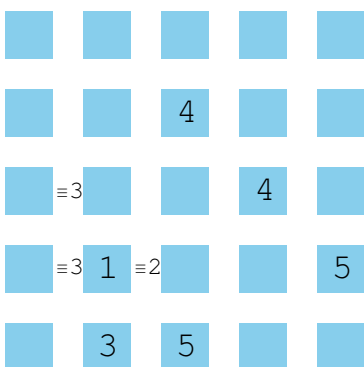
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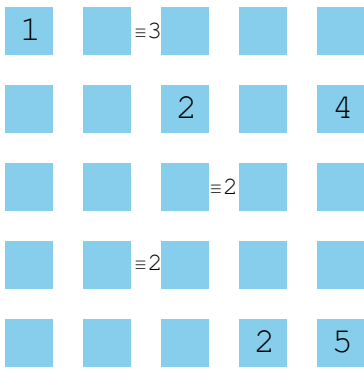
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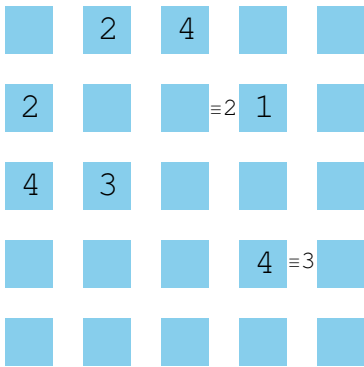
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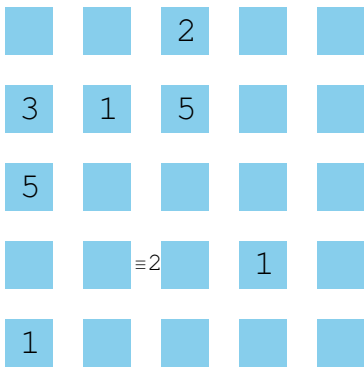
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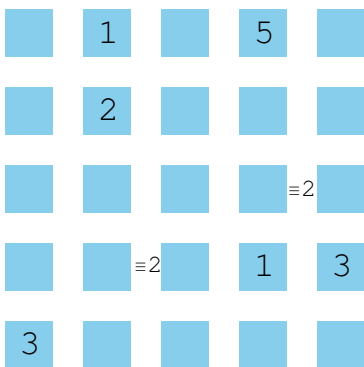
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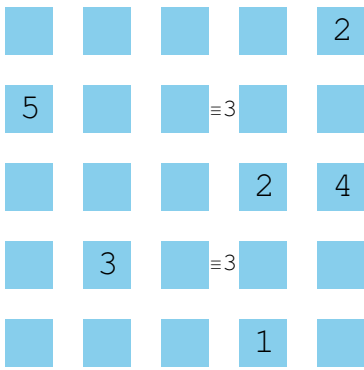
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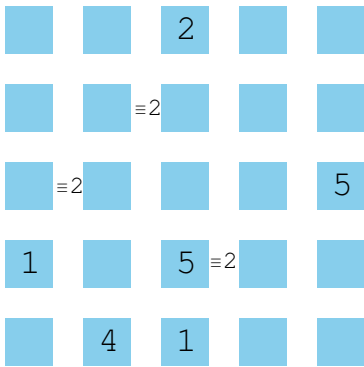
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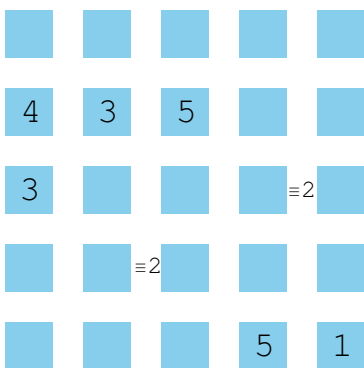
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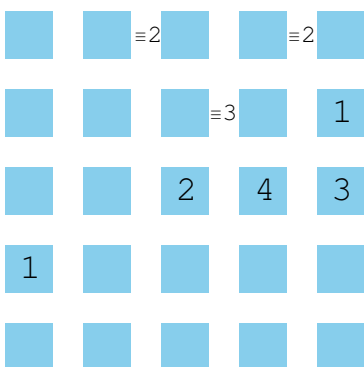
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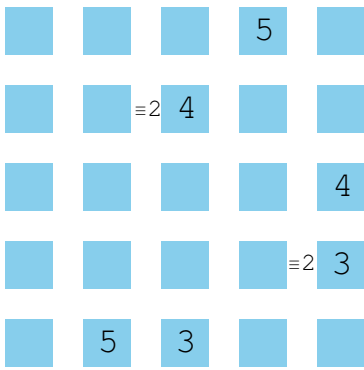
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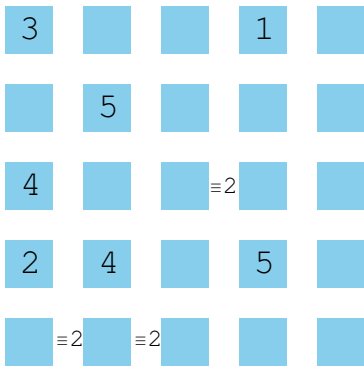
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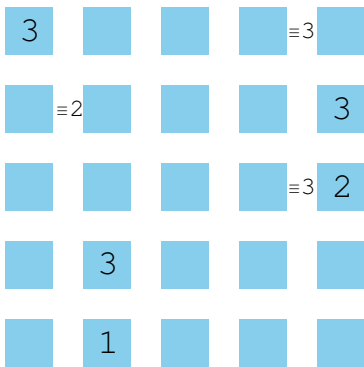
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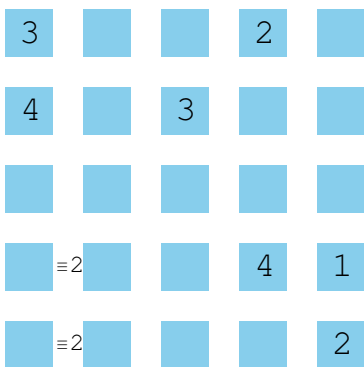
62.



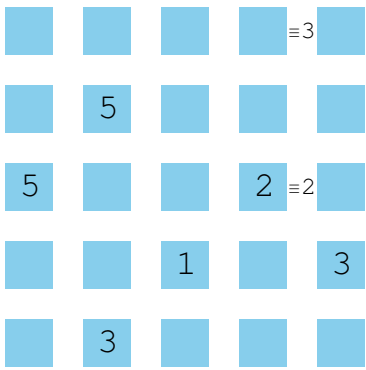
63.



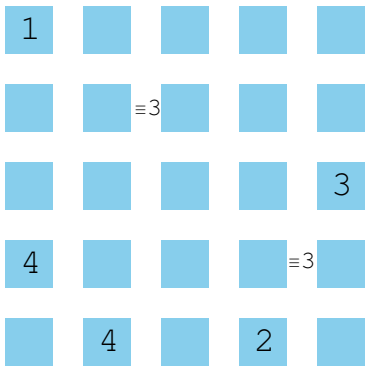
64.



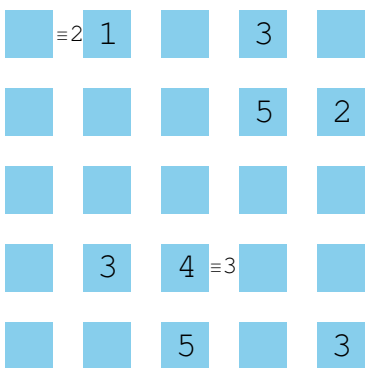
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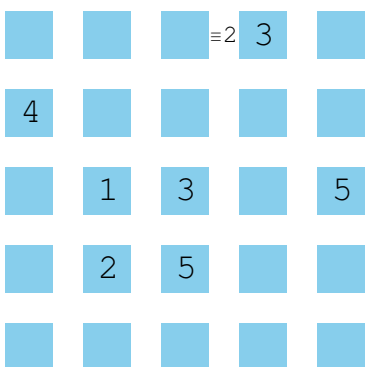
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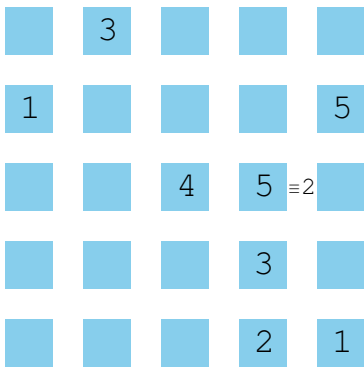
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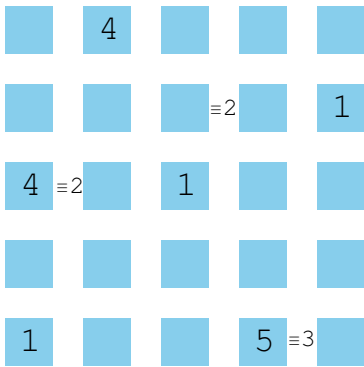
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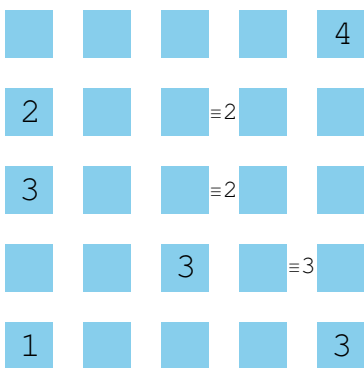
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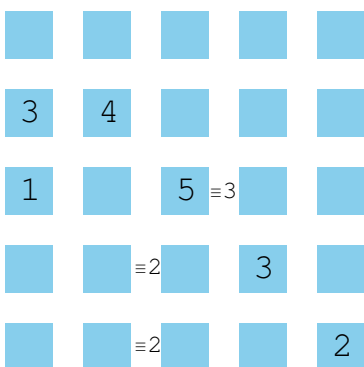
70.



71.



72.



73.

5	1	4		
	2		5 _{≡2}	
			1	
2		3		

74.

		≡2	2	
5			3	
	≡2	2		3
1			5	

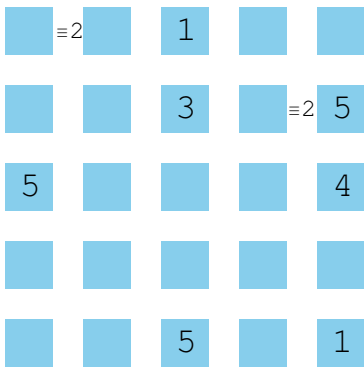
75.

	4			5
		5		
	≡2			≡2 4
5		2		
	3			

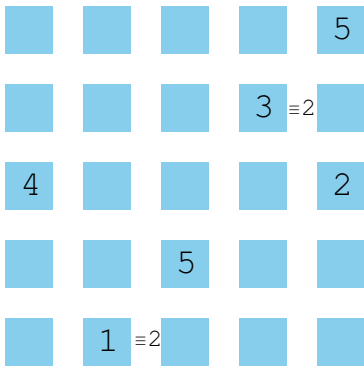
76.

5				3
	4		2	
	2	3 _{≡2}		
				1

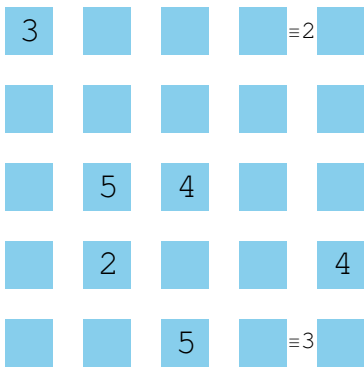
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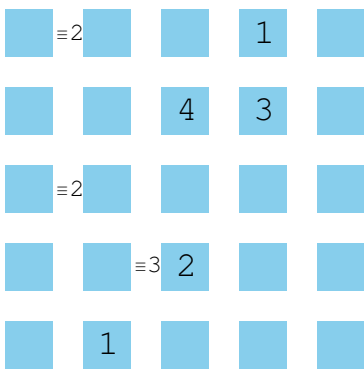
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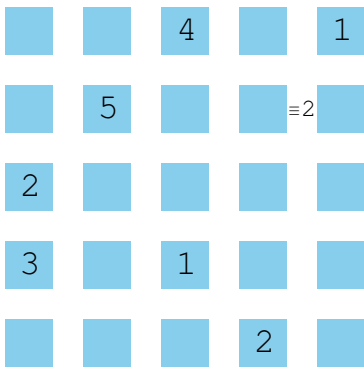
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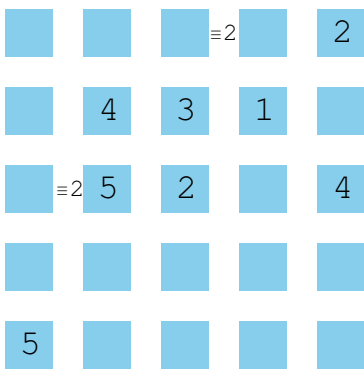
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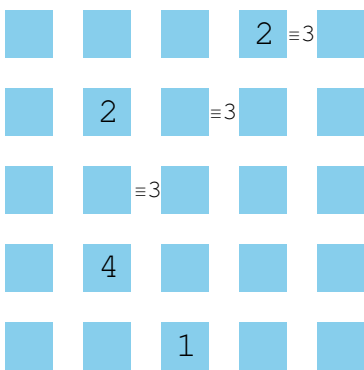
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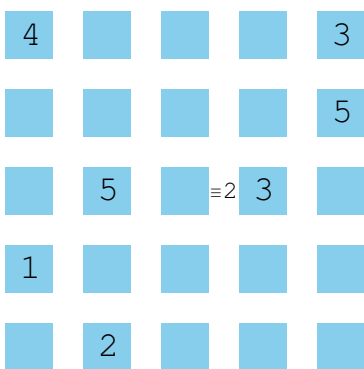
82.



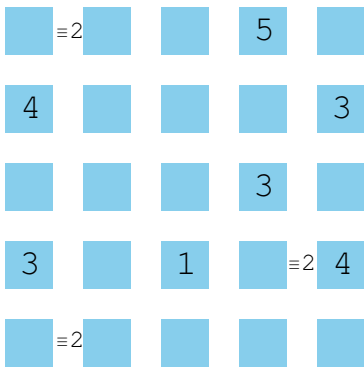
83.



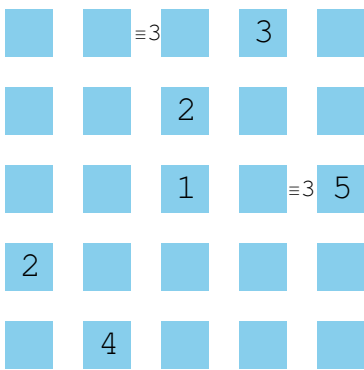
84.



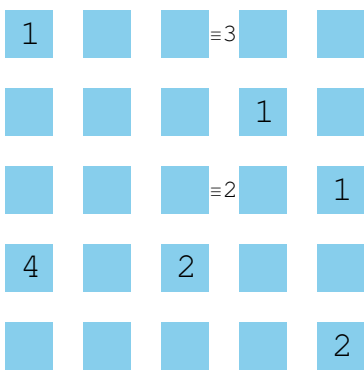
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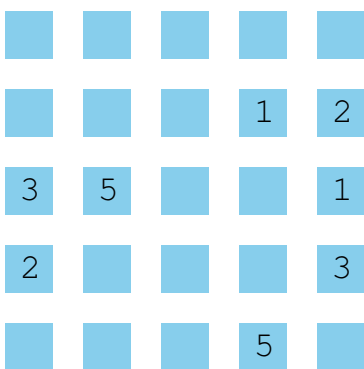
86.



87.



88.



89.

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

90.

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

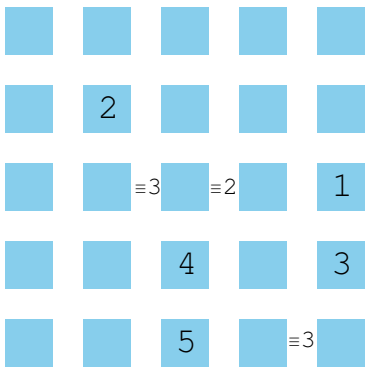
91.

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

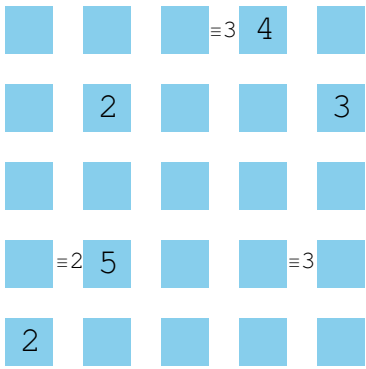
92.

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

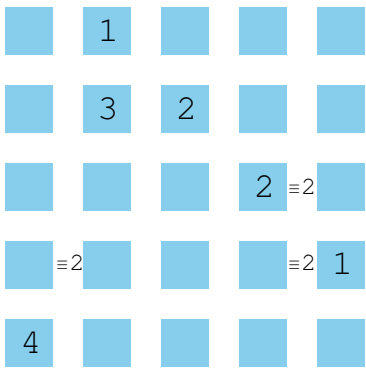
93.



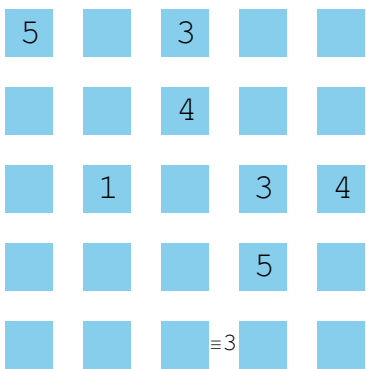
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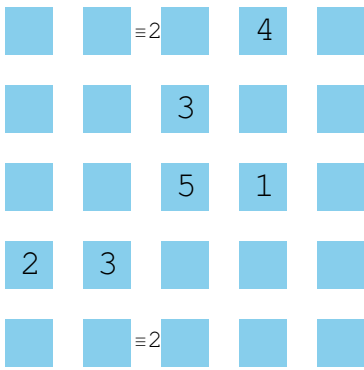
95.



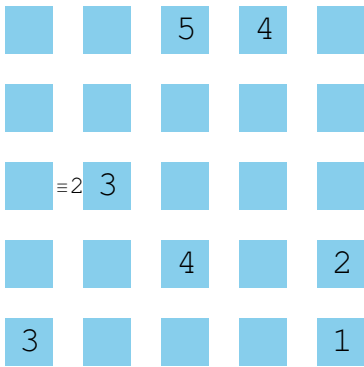
96.



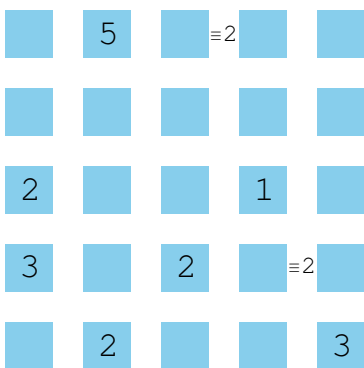
97.



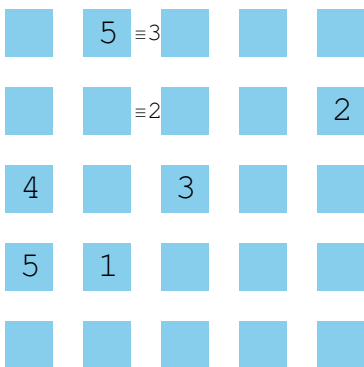
98.



99.



100.



101.

1				
	2		5	
		4 _{≡2}		
5				
	3		4	

102.

		4		2
1				
	_{≡2}			1
5				
	3		_{≡2}	

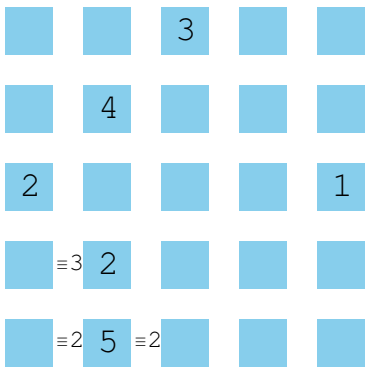
103.

			3	
		4		
		2		
		_{≡3}		1
			_{≡2}	5

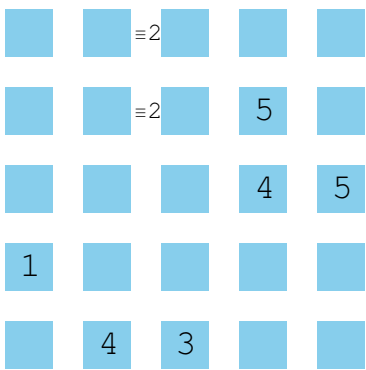
104.

		_{≡3}	3	
			_{≡2}	3
				_{≡2}
1		4		
				1

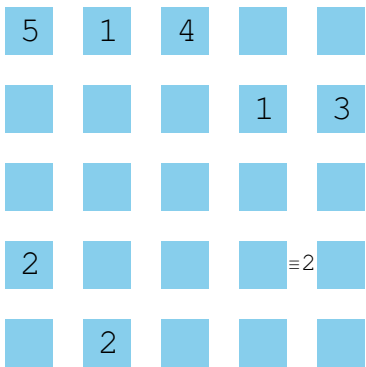
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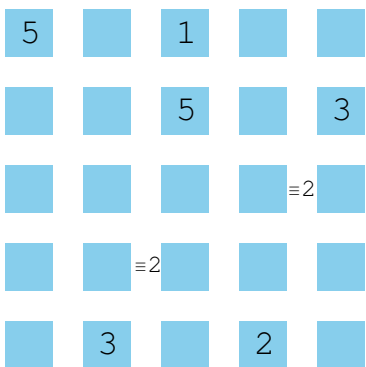
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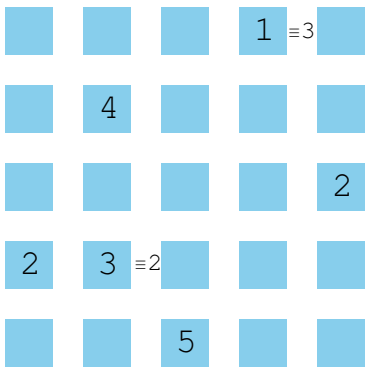
107.



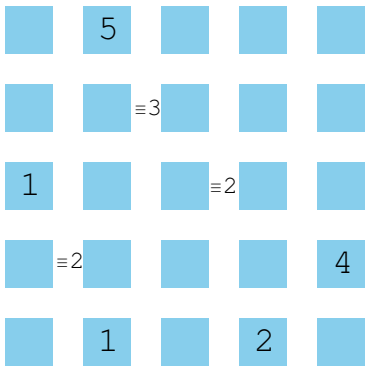
108.



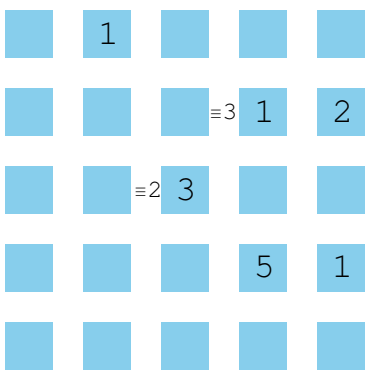
109.



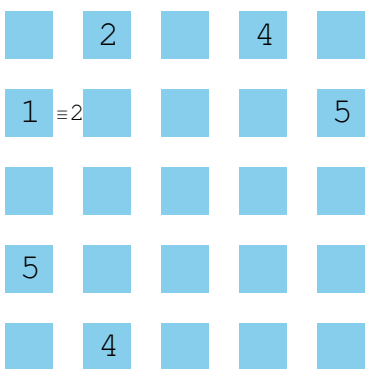
110.



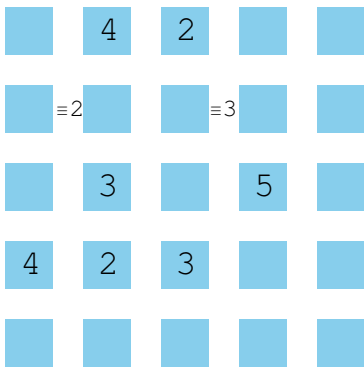
111.



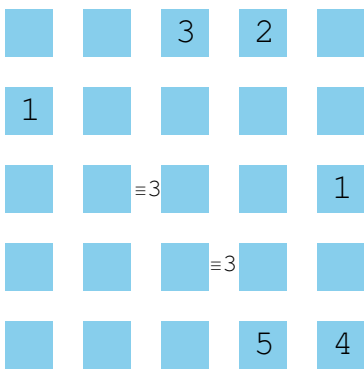
112.



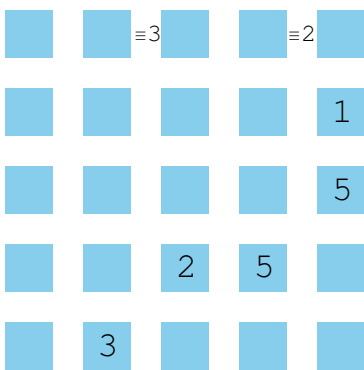
113.



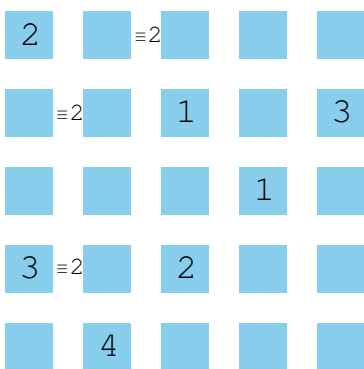
114.



115.



116.



117.

4			5	
	4		1	
3	2			
2		5		

118.

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

119.

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

120.

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

121.

■ ■ ■ ■ 3

3 ■ ■ ■ ■

■ $\equiv 2$ ■ 1 ■ ■

■ ■ ■ ■ $\equiv 2$ 4

4 5 ■ ■ ■

122.

2 $\equiv 2$ ■ ■ $\equiv 2$ ■ ■

■ ■ ■ 3 ■

■ ■ 4 ■ 1

■ 3 2 ■ 4

■ ■ $\equiv 2$ ■ ■ ■

123.

1 ■ 2 $\equiv 3$ ■ ■

■ ■ ■ ■ 3

■ ■ ■ ■ ■

2 ■ ■ ■ ■

4 $\equiv 2$ ■ 1 ■ ■

124.

■ ■ 3 ■ $\equiv 3$ ■

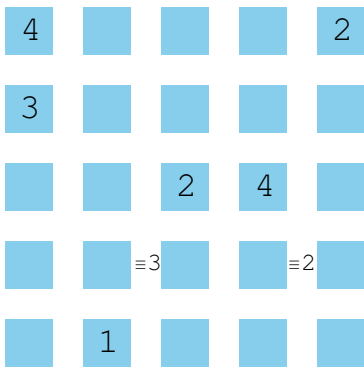
■ 1 ■ ■ ■

■ ■ ■ $\equiv 2$ 3 ■

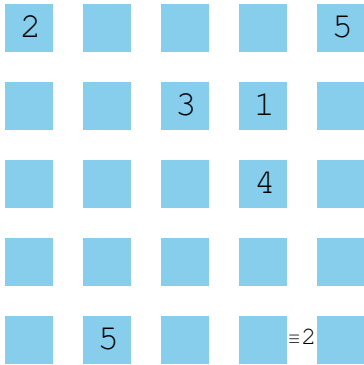
■ ■ $\equiv 2$ ■ ■ 5

■ 4 ■ ■ ■

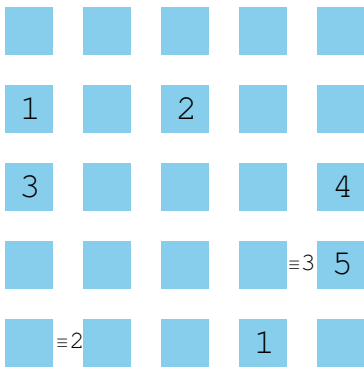
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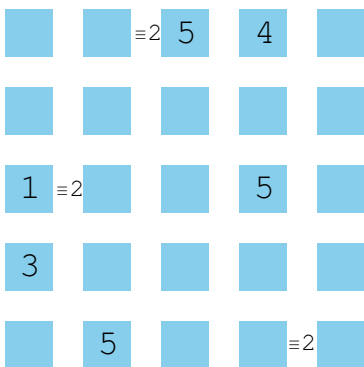
126.



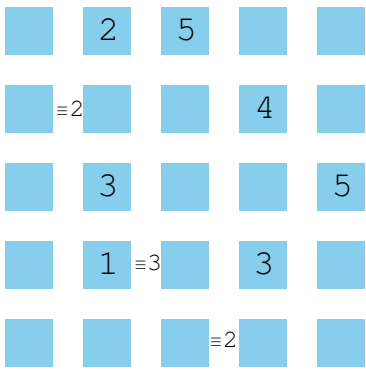
127.



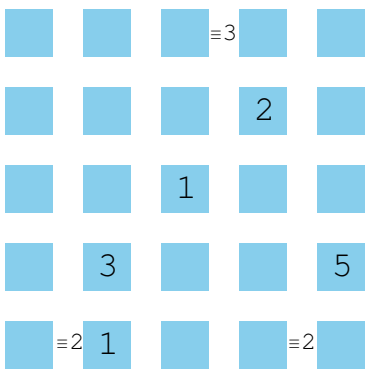
128.



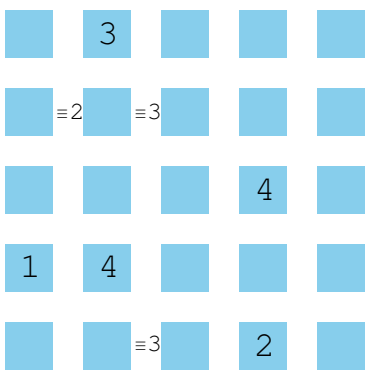
129.



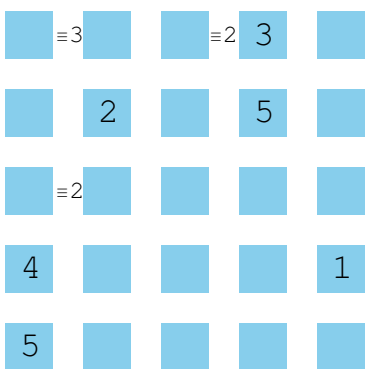
130.



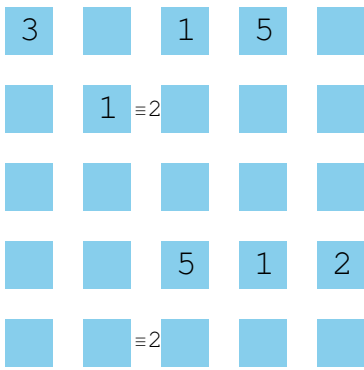
131.



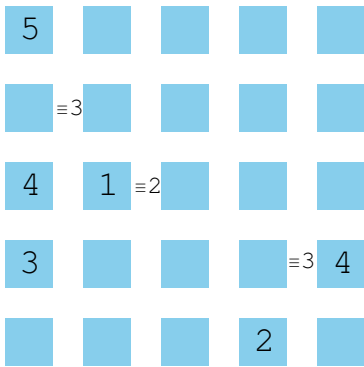
132.



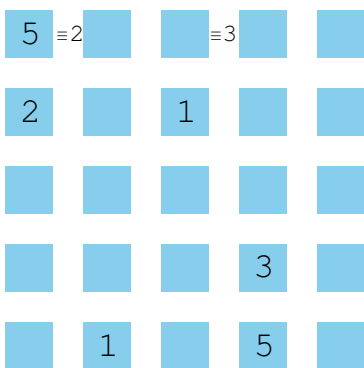
133.



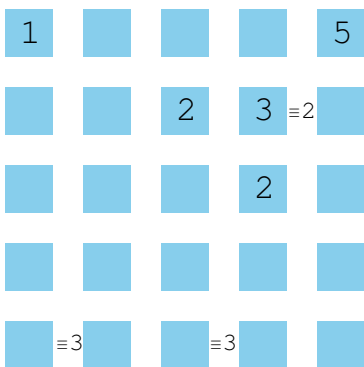
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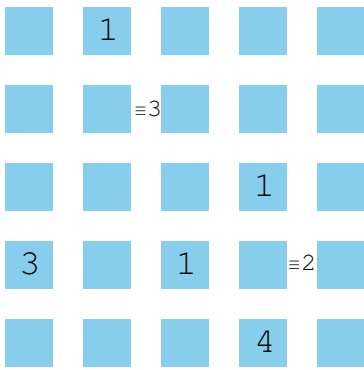
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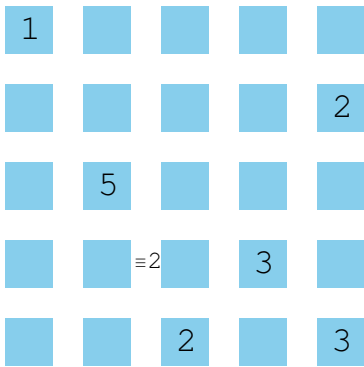
136.



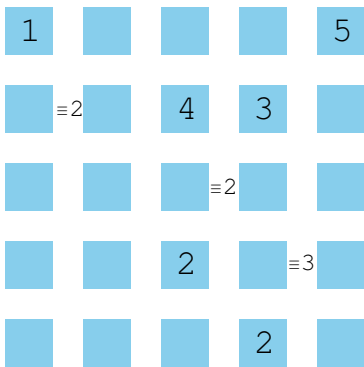
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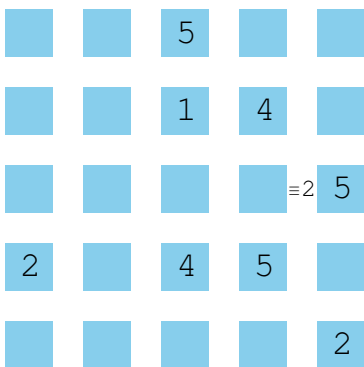
138.



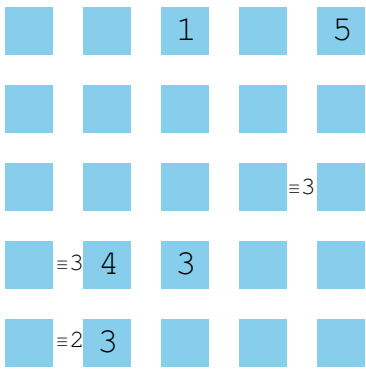
139.



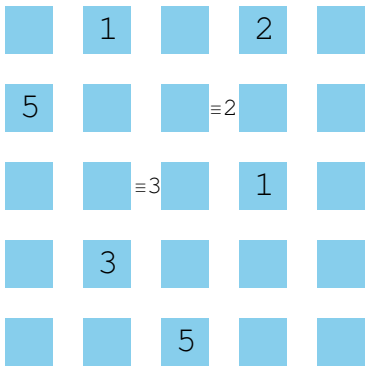
140.



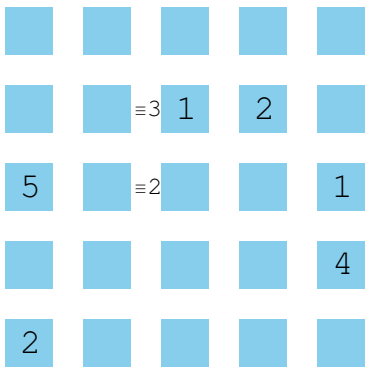
141.



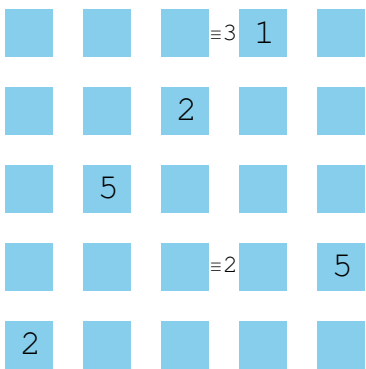
142.



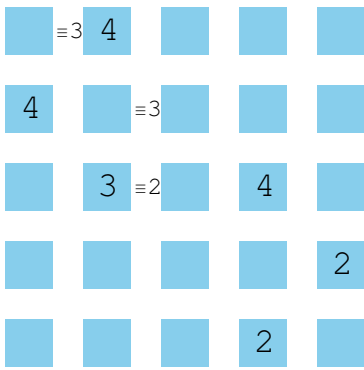
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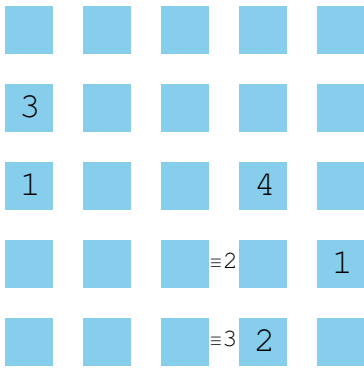
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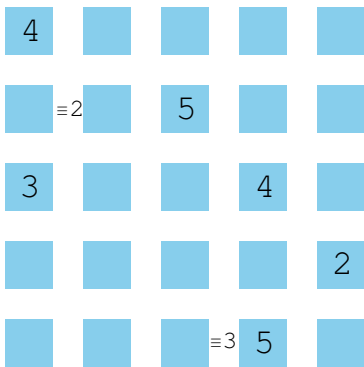
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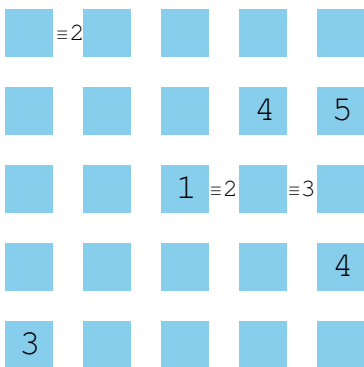
146.



147.



148.



149.

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150.

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_{≡2}		_{≡2}		
3		2		
	5 _{≡2}	3		
		5		

151.

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	_{≡2}		5	
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152.

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		5	2	3
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153.

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154.

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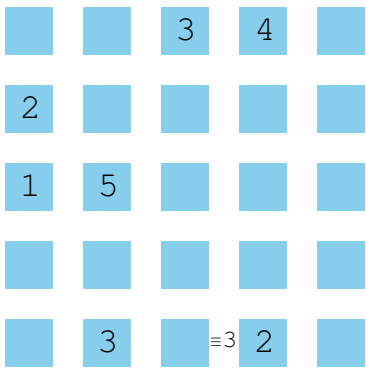
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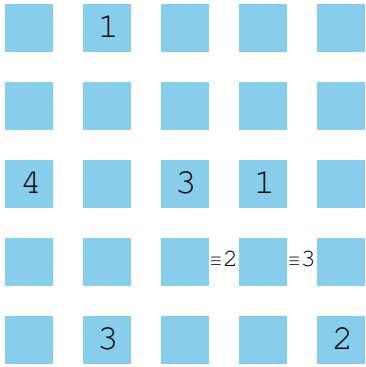
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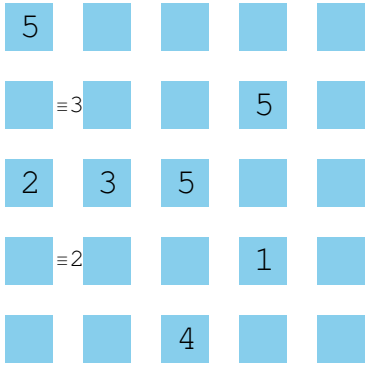
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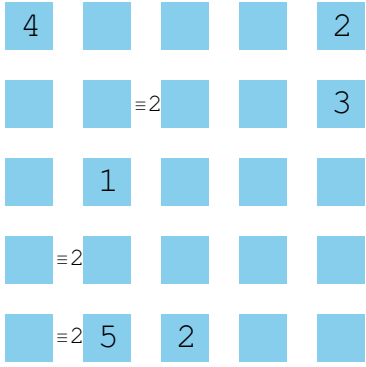
158.



159.



160.



17.

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18.

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3				4	

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71.

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76.

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78.

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82.

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87.

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89.

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104.

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105.

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125.

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128.

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131.

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133.

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137.

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138.

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139.

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144.

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147.

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148.

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160.

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17.

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18.

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