

O lepoti in moči matematike

Naloga

DK, 1.2.2008

Tabela

	19			19			13	
13		22	13		26	11		34
	34			34			26	
	11			17			17	
13		34	13		22	11		26
	26			38			38	
	17			17			13	
11		26	11		22	11		38
	38			38			34	

Matrika

$$\left(\begin{array}{c} \begin{pmatrix} 1 & 19 & 0 \\ 13 & 0 & 22 \\ 0 & 34 & 0 \end{pmatrix} \\ \begin{pmatrix} 4 & 11 & 0 \\ 13 & 0 & 34 \\ 0 & 26 & 0 \end{pmatrix} \\ \begin{pmatrix} 7 & 17 & 0 \\ 11 & 0 & 26 \\ 0 & 38 & 0 \end{pmatrix} \end{array} \right) \quad \left(\begin{array}{c} \begin{pmatrix} 2 & 19 & 0 \\ 13 & 0 & 26 \\ 0 & 34 & 0 \end{pmatrix} \\ \begin{pmatrix} 5 & 17 & 0 \\ 13 & 0 & 22 \\ 0 & 38 & 0 \end{pmatrix} \\ \begin{pmatrix} 8 & 17 & 0 \\ 11 & 0 & 22 \\ 0 & 38 & 0 \end{pmatrix} \end{array} \right) \quad \left(\begin{array}{c} \begin{pmatrix} 3 & 13 & 0 \\ 11 & 0 & 34 \\ 0 & 26 & 0 \end{pmatrix} \\ \begin{pmatrix} 6 & 17 & 0 \\ 11 & 0 & 26 \\ 0 & 38 & 0 \end{pmatrix} \\ \begin{pmatrix} 9 & 13 & 0 \\ 11 & 0 & 38 \\ 0 & 34 & 0 \end{pmatrix} \end{array} \right)$$

Rešitev 1

$$\left(\begin{array}{c} \begin{pmatrix} 8 & 17 & 0 \\ 11 & 0 & 22 \\ 0 & 38 & 0 \end{pmatrix} \\ \begin{pmatrix} 2 & 19 & 0 \\ 13 & 0 & 26 \\ 0 & 34 & 0 \end{pmatrix} \\ \begin{pmatrix} 7 & 17 & 0 \\ 11 & 0 & 26 \\ 0 & 38 & 0 \end{pmatrix} \end{array} \quad \begin{array}{c} \begin{pmatrix} 6 & 17 & 0 \\ 11 & 0 & 26 \\ 0 & 38 & 0 \end{pmatrix} \\ \begin{pmatrix} 1 & 19 & 0 \\ 13 & 0 & 22 \\ 0 & 34 & 0 \end{pmatrix} \\ \begin{pmatrix} 5 & 17 & 0 \\ 13 & 0 & 22 \\ 0 & 38 & 0 \end{pmatrix} \end{array} \quad \begin{array}{c} \begin{pmatrix} 4 & 11 & 0 \\ 13 & 0 & 34 \\ 0 & 26 & 0 \end{pmatrix} \\ \begin{pmatrix} 3 & 13 & 0 \\ 11 & 0 & 34 \\ 0 & 26 & 0 \end{pmatrix} \\ \begin{pmatrix} 9 & 13 & 0 \\ 11 & 0 & 38 \\ 0 & 34 & 0 \end{pmatrix} \end{array} \right)$$

Rešitev 2

$$\left(\begin{array}{c} \left(\begin{array}{ccc} 8 & 17 & 0 \\ 11 & 0 & 22 \\ 0 & 38 & 0 \end{array} \right) \\ \left(\begin{array}{ccc} 2 & 19 & 0 \\ 13 & 0 & 26 \\ 0 & 34 & 0 \end{array} \right) \\ \left(\begin{array}{ccc} 6 & 17 & 0 \\ 11 & 0 & 26 \\ 0 & 38 & 0 \end{array} \right) \end{array} \right) \quad \left(\begin{array}{c} \left(\begin{array}{ccc} 7 & 17 & 0 \\ 11 & 0 & 26 \\ 0 & 38 & 0 \end{array} \right) \\ \left(\begin{array}{ccc} 1 & 19 & 0 \\ 13 & 0 & 22 \\ 0 & 34 & 0 \end{array} \right) \\ \left(\begin{array}{ccc} 5 & 17 & 0 \\ 13 & 0 & 22 \\ 0 & 38 & 0 \end{array} \right) \end{array} \right) \quad \left(\begin{array}{c} \left(\begin{array}{ccc} 4 & 11 & 0 \\ 13 & 0 & 34 \\ 0 & 26 & 0 \end{array} \right) \\ \left(\begin{array}{ccc} 3 & 13 & 0 \\ 11 & 0 & 34 \\ 0 & 26 & 0 \end{array} \right) \\ \left(\begin{array}{ccc} 9 & 13 & 0 \\ 11 & 0 & 38 \\ 0 & 34 & 0 \end{array} \right) \end{array} \right)$$

Rešitev 3

$$\left(\begin{array}{c} \left(\begin{array}{ccc} 6 & 17 & 0 \\ 11 & 0 & 26 \\ 0 & 38 & 0 \end{array} \right) \\ \left(\begin{array}{ccc} 1 & 19 & 0 \\ 13 & 0 & 22 \\ 0 & 34 & 0 \end{array} \right) \\ \left(\begin{array}{ccc} 8 & 17 & 0 \\ 11 & 0 & 22 \\ 0 & 38 & 0 \end{array} \right) \end{array} \right) \left(\begin{array}{c} \left(\begin{array}{ccc} 4 & 11 & 0 \\ 13 & 0 & 34 \\ 0 & 26 & 0 \end{array} \right) \\ \left(\begin{array}{ccc} 3 & 13 & 0 \\ 11 & 0 & 34 \\ 0 & 26 & 0 \end{array} \right) \\ \left(\begin{array}{ccc} 9 & 13 & 0 \\ 11 & 0 & 38 \\ 0 & 34 & 0 \end{array} \right) \end{array} \right) \left(\begin{array}{c} \left(\begin{array}{ccc} 7 & 26 & 3 \\ 17 & 0 & 38 \\ 0 & 11 & 0 \end{array} \right) \\ \left(\begin{array}{ccc} 5 & 22 & 3 \\ 17 & 0 & 38 \\ 0 & 13 & 0 \end{array} \right) \\ \left(\begin{array}{ccc} 2 & 26 & 3 \\ 19 & 0 & 34 \\ 0 & 13 & 0 \end{array} \right) \end{array} \right)$$

Rešitev 4

$$\left(\begin{array}{c} \left(\begin{array}{ccc} 7 & 17 & 0 \\ 11 & 0 & 26 \\ 0 & 38 & 0 \end{array} \right) \\ \left(\begin{array}{ccc} 1 & 19 & 0 \\ 13 & 0 & 22 \\ 0 & 34 & 0 \end{array} \right) \\ \left(\begin{array}{ccc} 8 & 17 & 0 \\ 11 & 0 & 22 \\ 0 & 38 & 0 \end{array} \right) \end{array} \right) \quad \left(\begin{array}{c} \left(\begin{array}{ccc} 4 & 11 & 0 \\ 13 & 0 & 34 \\ 0 & 26 & 0 \end{array} \right) \\ \left(\begin{array}{ccc} 3 & 13 & 0 \\ 11 & 0 & 34 \\ 0 & 26 & 0 \end{array} \right) \\ \left(\begin{array}{ccc} 9 & 13 & 0 \\ 11 & 0 & 38 \\ 0 & 34 & 0 \end{array} \right) \end{array} \right) \quad \left(\begin{array}{c} \left(\begin{array}{ccc} 6 & 26 & 3 \\ 17 & 0 & 38 \\ 0 & 11 & 0 \end{array} \right) \\ \left(\begin{array}{ccc} 5 & 22 & 3 \\ 17 & 0 & 38 \\ 0 & 13 & 0 \end{array} \right) \\ \left(\begin{array}{ccc} 2 & 26 & 3 \\ 19 & 0 & 34 \\ 0 & 13 & 0 \end{array} \right) \end{array} \right)$$

Vse rešitve

$$\left(\begin{array}{ccc} 1 & 19 & 0 \\ 13 & 0 & 22 \\ 0 & 34 & 0 \end{array} \right) \quad \left(\begin{array}{ccc} 2 & 19 & 0 \\ 13 & 0 & 26 \\ 0 & 34 & 0 \end{array} \right) \quad \left(\begin{array}{ccc} 3 & 13 & 0 \\ 11 & 0 & 34 \\ 0 & 26 & 0 \end{array} \right) \\ \left(\begin{array}{ccc} 4 & 11 & 0 \\ 13 & 0 & 34 \\ 0 & 26 & 0 \end{array} \right) \quad \left(\begin{array}{ccc} 5 & 17 & 0 \\ 13 & 0 & 22 \\ 0 & 38 & 0 \end{array} \right) \quad \left(\begin{array}{ccc} 6 & 17 & 0 \\ 11 & 0 & 26 \\ 0 & 38 & 0 \end{array} \right) \\ \left(\begin{array}{ccc} 7 & 17 & 0 \\ 11 & 0 & 26 \\ 0 & 38 & 0 \end{array} \right) \quad \left(\begin{array}{ccc} 8 & 17 & 0 \\ 11 & 0 & 22 \\ 0 & 38 & 0 \end{array} \right) \quad \left(\begin{array}{ccc} 9 & 13 & 0 \\ 11 & 0 & 38 \\ 0 & 34 & 0 \end{array} \right)$$

Vse rešitve

$$\left(\begin{array}{c} \begin{pmatrix} 1 & 19 & 0 \\ 13 & 0 & 22 \\ 0 & 34 & 0 \end{pmatrix} \\ \begin{pmatrix} 4 & 11 & 0 \\ 13 & 0 & 34 \\ 0 & 26 & 0 \end{pmatrix} \\ \begin{pmatrix} 7 & 17 & 0 \\ 11 & 0 & 26 \\ 0 & 38 & 0 \end{pmatrix} \end{array} \right) \left(\begin{array}{c} \begin{pmatrix} 2 & 19 & 0 \\ 13 & 0 & 26 \\ 0 & 34 & 0 \end{pmatrix} \\ \begin{pmatrix} 5 & 17 & 0 \\ 13 & 0 & 22 \\ 0 & 38 & 0 \end{pmatrix} \\ \begin{pmatrix} 8 & 17 & 0 \\ 11 & 0 & 22 \\ 0 & 38 & 0 \end{pmatrix} \end{array} \right) \left(\begin{array}{c} \begin{pmatrix} 3 & 13 & 0 \\ 11 & 0 & 34 \\ 0 & 26 & 0 \end{pmatrix} \\ \begin{pmatrix} 6 & 17 & 0 \\ 11 & 0 & 26 \\ 0 & 38 & 0 \end{pmatrix} \\ \begin{pmatrix} 9 & 13 & 0 \\ 11 & 0 & 38 \\ 0 & 34 & 0 \end{pmatrix} \end{array} \right)$$

$$\left(\begin{array}{c} \begin{pmatrix} 8 & 17 & 0 \\ 11 & 0 & 22 \\ 0 & 38 & 0 \end{pmatrix} \\ \begin{pmatrix} 2 & 19 & 0 \\ 13 & 0 & 26 \\ 0 & 34 & 0 \end{pmatrix} \\ \begin{pmatrix} 7 & 17 & 0 \\ 11 & 0 & 26 \\ 0 & 38 & 0 \end{pmatrix} \end{array} \right) \left(\begin{array}{c} \begin{pmatrix} 6 & 17 & 0 \\ 11 & 0 & 26 \\ 0 & 38 & 0 \end{pmatrix} \\ \begin{pmatrix} 1 & 19 & 0 \\ 13 & 0 & 22 \\ 0 & 34 & 0 \end{pmatrix} \\ \begin{pmatrix} 5 & 17 & 0 \\ 13 & 0 & 22 \\ 0 & 38 & 0 \end{pmatrix} \end{array} \right) \left(\begin{array}{c} \begin{pmatrix} 4 & 11 & 0 \\ 13 & 0 & 34 \\ 0 & 26 & 0 \end{pmatrix} \\ \begin{pmatrix} 3 & 13 & 0 \\ 11 & 0 & 34 \\ 0 & 26 & 0 \end{pmatrix} \\ \begin{pmatrix} 9 & 13 & 0 \\ 11 & 0 & 38 \\ 0 & 34 & 0 \end{pmatrix} \end{array} \right)$$

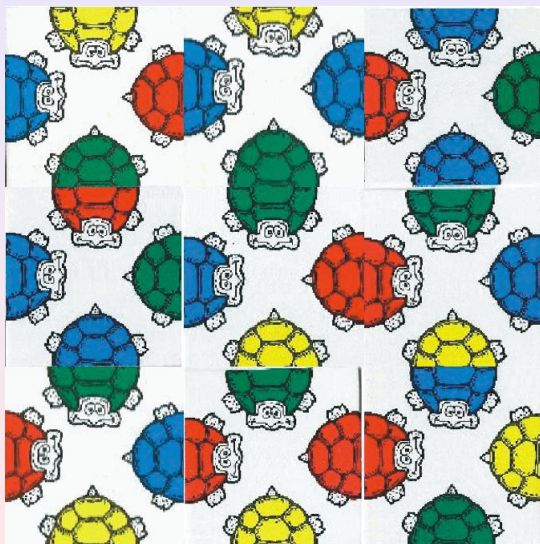
Vse rešitve

$$\left(\begin{array}{ccc} \begin{pmatrix} 1 & 19 & 0 \\ 13 & 0 & 22 \\ 0 & 34 & 0 \end{pmatrix} & \begin{pmatrix} 2 & 19 & 0 \\ 13 & 0 & 26 \\ 0 & 34 & 0 \end{pmatrix} & \begin{pmatrix} 3 & 13 & 0 \\ 11 & 0 & 34 \\ 0 & 26 & 0 \end{pmatrix} \\ \begin{pmatrix} 4 & 11 & 0 \\ 13 & 0 & 34 \\ 0 & 26 & 0 \end{pmatrix} & \begin{pmatrix} 5 & 17 & 0 \\ 13 & 0 & 22 \\ 0 & 38 & 0 \end{pmatrix} & \begin{pmatrix} 6 & 17 & 0 \\ 11 & 0 & 26 \\ 0 & 38 & 0 \end{pmatrix} \\ \begin{pmatrix} 7 & 17 & 0 \\ 11 & 0 & 26 \\ 0 & 38 & 0 \end{pmatrix} & \begin{pmatrix} 8 & 17 & 0 \\ 11 & 0 & 22 \\ 0 & 38 & 0 \end{pmatrix} & \begin{pmatrix} 9 & 13 & 0 \\ 11 & 0 & 38 \\ 0 & 34 & 0 \end{pmatrix} \end{array} \right)$$

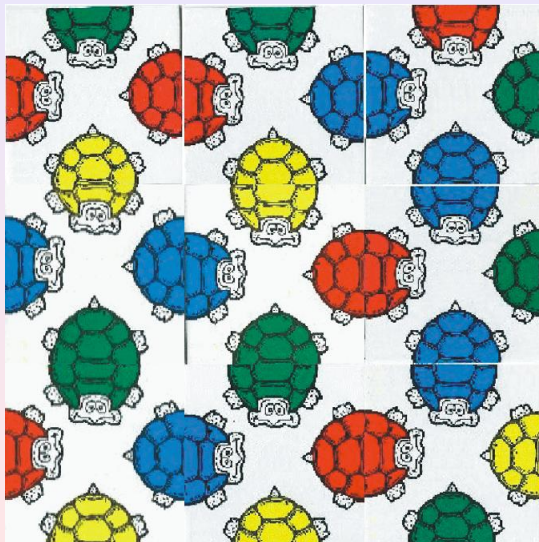
$$\left(\begin{array}{ccc} \begin{pmatrix} 8 & 17 & 0 \\ 11 & 0 & 22 \\ 0 & 38 & 0 \end{pmatrix} & \begin{pmatrix} 6 & 17 & 0 \\ 11 & 0 & 26 \\ 0 & 38 & 0 \end{pmatrix} & \begin{pmatrix} 4 & 11 & 0 \\ 13 & 0 & 34 \\ 0 & 26 & 0 \end{pmatrix} \\ \begin{pmatrix} 2 & 19 & 0 \\ 13 & 0 & 26 \\ 0 & 34 & 0 \end{pmatrix} & \begin{pmatrix} 1 & 19 & 0 \\ 13 & 0 & 22 \\ 0 & 34 & 0 \end{pmatrix} & \begin{pmatrix} 3 & 13 & 0 \\ 11 & 0 & 34 \\ 0 & 26 & 0 \end{pmatrix} \\ \begin{pmatrix} 7 & 17 & 0 \\ 11 & 0 & 26 \\ 0 & 38 & 0 \end{pmatrix} & \begin{pmatrix} 5 & 17 & 0 \\ 13 & 0 & 22 \\ 0 & 38 & 0 \end{pmatrix} & \begin{pmatrix} 9 & 13 & 0 \\ 11 & 0 & 38 \\ 0 & 34 & 0 \end{pmatrix} \end{array} \right)$$

$$\left(\begin{array}{ccc} \begin{pmatrix} 8 & 17 & 0 \\ 11 & 0 & 22 \\ 0 & 38 & 0 \end{pmatrix} & \begin{pmatrix} 7 & 17 & 0 \\ 11 & 0 & 26 \\ 0 & 38 & 0 \end{pmatrix} & \begin{pmatrix} 4 & 11 & 0 \\ 13 & 0 & 34 \\ 0 & 26 & 0 \end{pmatrix} \\ \begin{pmatrix} 2 & 19 & 0 \\ 13 & 0 & 26 \\ 0 & 34 & 0 \end{pmatrix} & \begin{pmatrix} 1 & 19 & 0 \\ 13 & 0 & 22 \\ 0 & 34 & 0 \end{pmatrix} & \begin{pmatrix} 3 & 13 & 0 \\ 11 & 0 & 34 \\ 0 & 26 & 0 \end{pmatrix} \\ \begin{pmatrix} 6 & 17 & 0 \\ 11 & 0 & 26 \\ 0 & 38 & 0 \end{pmatrix} & \begin{pmatrix} 5 & 17 & 0 \\ 13 & 0 & 22 \\ 0 & 38 & 0 \end{pmatrix} & \begin{pmatrix} 9 & 13 & 0 \\ 11 & 0 & 38 \\ 0 & 34 & 0 \end{pmatrix} \end{array} \right)$$

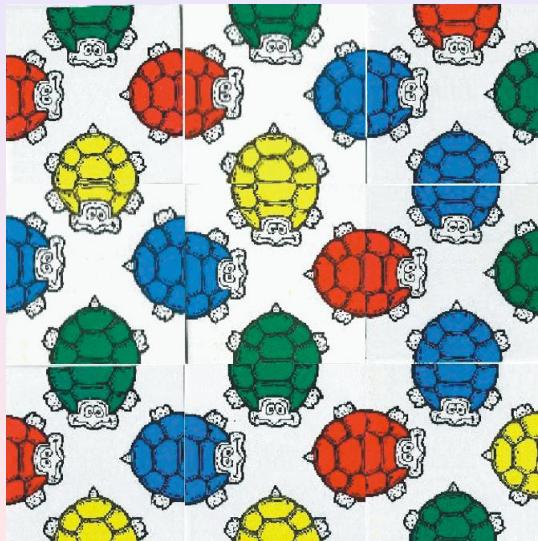
9 kartic



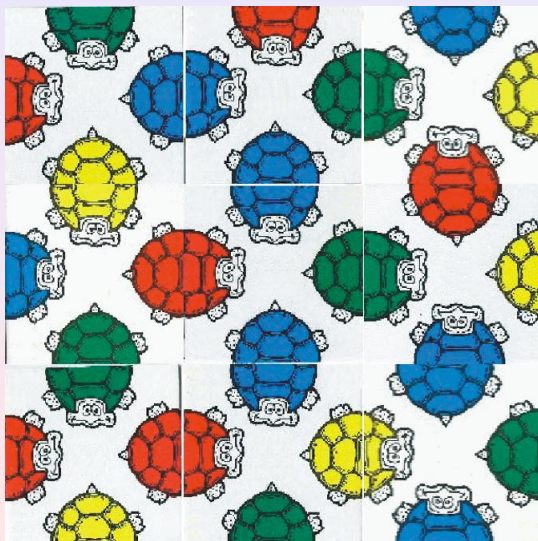
Prva rešitev



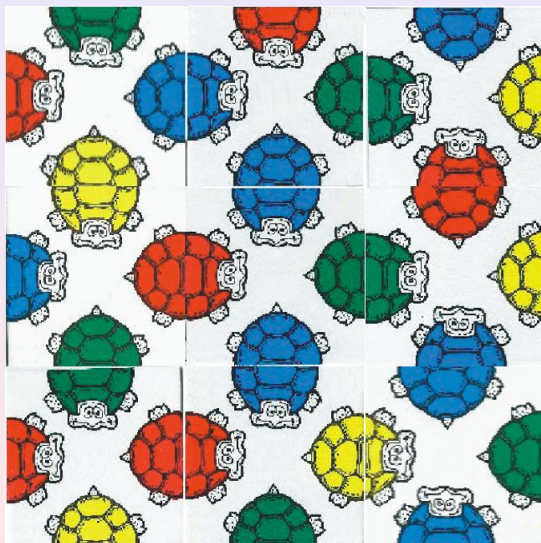
Druga rešitev



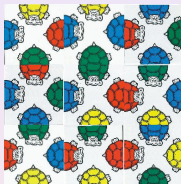
Tretja rešitev



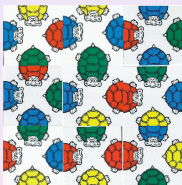
Četrta rešitev



Vse rešitve

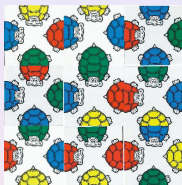


Vse rešitve

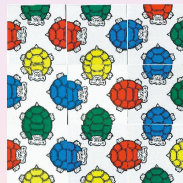


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05-04-06-03-08-07-02-01-09
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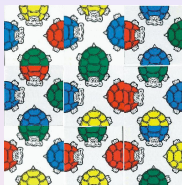
Vse rešitve



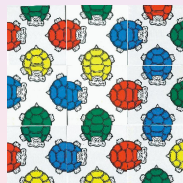
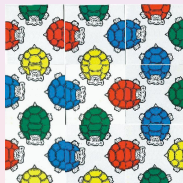
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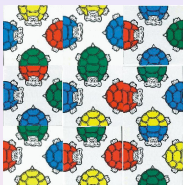
Vse rešitve



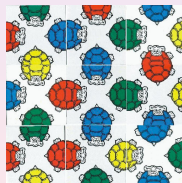
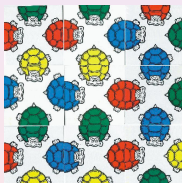
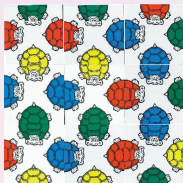
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04-39-05-02-36-33-01-07-08



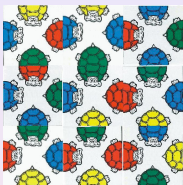
Vse rešitve



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Vse rešitve



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04-39-05-02-36-33-01-07-08

