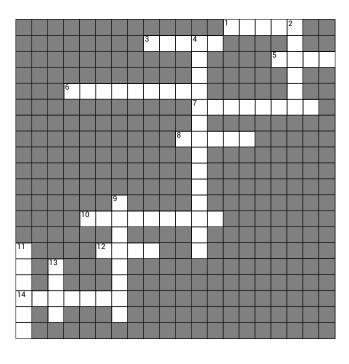
Puzzles

Crossword Takuzu



The goal of this problem is to fill the grid with 1 and 0. The rules of the game are:

- 1. each line has the same number of 1s and os;
- 2. no more than two consecutive cells may contain the same digit; and
- 3. each row and each column have to be unique.

0		0		1	1		1	1	
						0		1	
		0			1				
0				1				1	1
		0				1			
0	1		1						
			1			0		0	0
							1		
1		1	1		0				0
1		1	1		0		0	0	

Across. 1 Pythagorean divinity 3 Primarily used in finance systems 5 An object oriented shiny rock 6 capitaliseAndRemoveAllSpaces 7 Developed by Grace Hopper 8 While, for, etc 10 Bad code can be compared to this food 12 Pez-like stack 14 No side effects

Down. 2 Holds real numbers 4 e.g. Java 9 x 11 Non venomous and kind to newcomers 13 Mozilla Research design

Brain Teasers

- **A.** In the hexadecimal number system, numbers are represented using 16 different digits: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F. The hexadecimal number AF, when written in the decimal number system, equals $10\times16+15=175$. How would you write 1917 as a hexadecimal number?
- B. What does the obfuscated program below write to stdout?

```
main() {
    long long P = 1, E = 2, T = 5,
        A = 61, L = 251, N = 3659,
        R = 271173410,
        G = 1479296389,
        x[] = { G * R * E * E * T ,
            P * L * A * N * E * T };
    puts((char*)x);
}
```

Solutions in issue 103!

■ Emily Saunders Walmsley