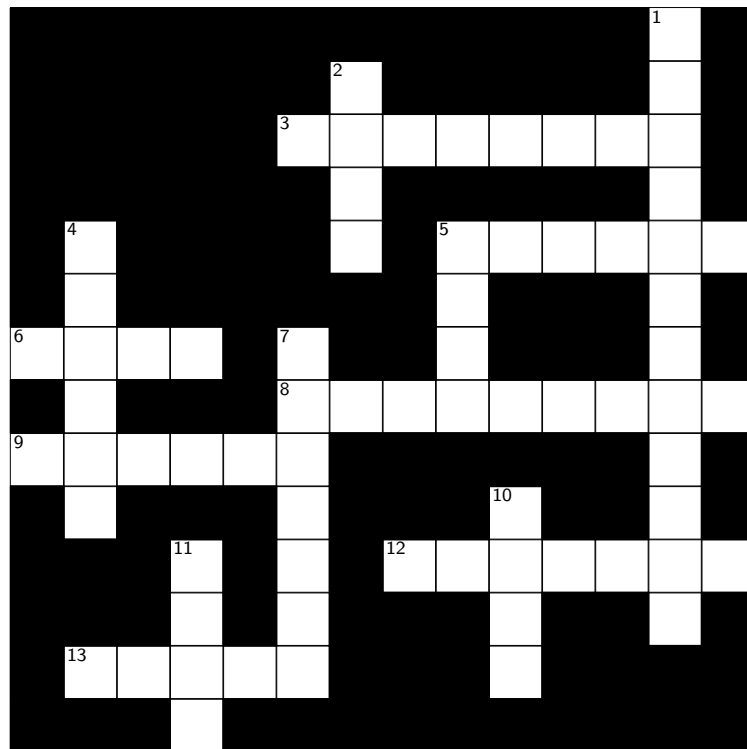


Puzzles

Crossword:



Across 3 "apt-get install" 6 Wiggly bootloader 8 Infinitely customisable, but may eat your brain 9 The Universal Operating System 12 *box 13 Short, user friendly desktop environment

Down 1 Makes up an OS. Also, binomial ----. 2 Pentesting distro 4 At the centre of the Linux OS 5 Unix shell, good for percussive maintenance 7 Documentation galore, commandline accessed 10 ---- make me a sandwich. 11 Superuser, like carrots

Takuzu:

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

1. There have to be the same number of 1 and 0 in each line.
2. No more than two cells in a row can contain the same digit.

3. Each row and each column have to be unique.

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

Answer:

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

Brain teasers:

- A. Write a Linux kernel module, and stand-alone Makefile, that when loaded prints to the kernel debug log level, "Hello World!" Be sure to make the module unloadable as well! (This problem was taken from: <http://eudypitula-challenge.org/>. Its great fun and I'd thoroughly recommend signing up for it.)
- B. There is a pile of twelve coins, eleven of which are real and one of which is a counterfeit. The counterfeit coin will be either heavier or lighter than the other coins, which are all of equal weight. To find the counterfeit coin, you have a balance scale to place the coins on. In only THREE weighings, find which coin is counterfeit and whether it is heavier or lighter.
- C. Find the maximum area of a rectangle inscribed in a unit circle.