#66

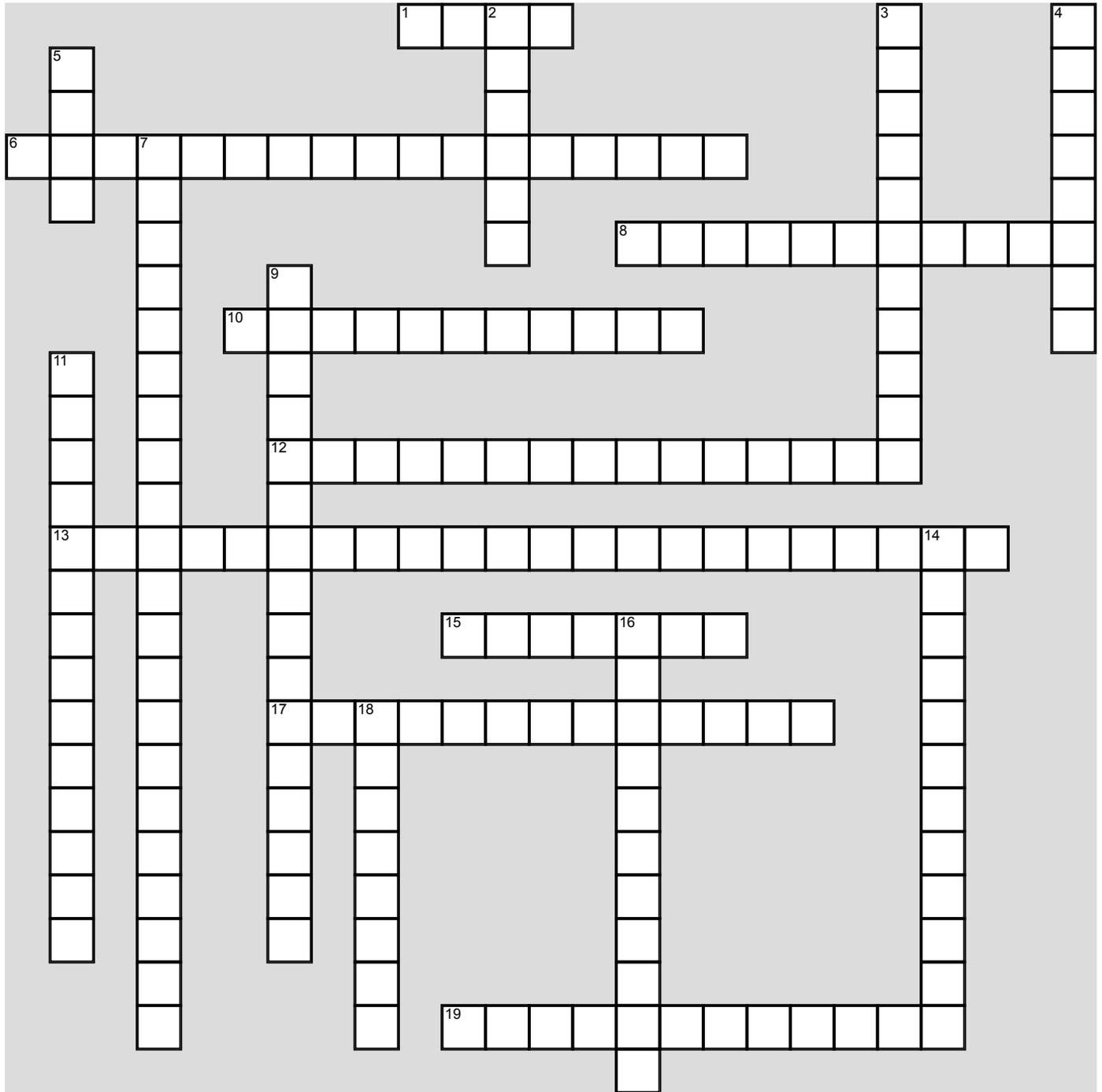## Across

1 German engineer inventor and engineer (1910–1995) who is credited with creating the Z3, a program-controlled Turing-complete computer

6 A loudspeaker that achieves high efficiencies by using a consolidating technique [two words]

8 A device that combines input signals, shares a single transmission channel, and enables data compression

10 Measures low current

12 An action that is non-interruptible by any other one and never presents partial results to an outside observer [two words]

13 A pocket-sized radar that runs off AA batteries and is often used as a basic motion sensor for security applications [three words]

15 Circuit Cellar columnist who frequently writes about frequency

17 English physicist and inventor William Sturgeon (1783-1850) is credited with using electric current to develop the first one of these objects in 1825

19 A diagram of the sequence of movements or actions

Down

2 The flexible collar that helps keep a voice coil magnetically centered

3 Refers to both the result function and to the process of computing it

4 A specialized linear-beam vacuum tube

5 Stores binary data; synonym: drop

7 Decodes using two pieces of information, one public and one private [three words]

9 Involves measuring physical quantities with time and spatial variances [two words]

11 Alternating voltage/current with the exact same energy content as the same value of direct current; a.k.a., quadric mean [three words]

14 Check performed by an independent team on a system installed at a place other than the targeted customer's site [two words]

16 An energy-saving device that was the topic of Fergus Dixon's article (Circuit Cellar, 263 2012) [two words]

18 At Circuit Cellar , a past, present, and future key theme of the magazine centers on this type of technology