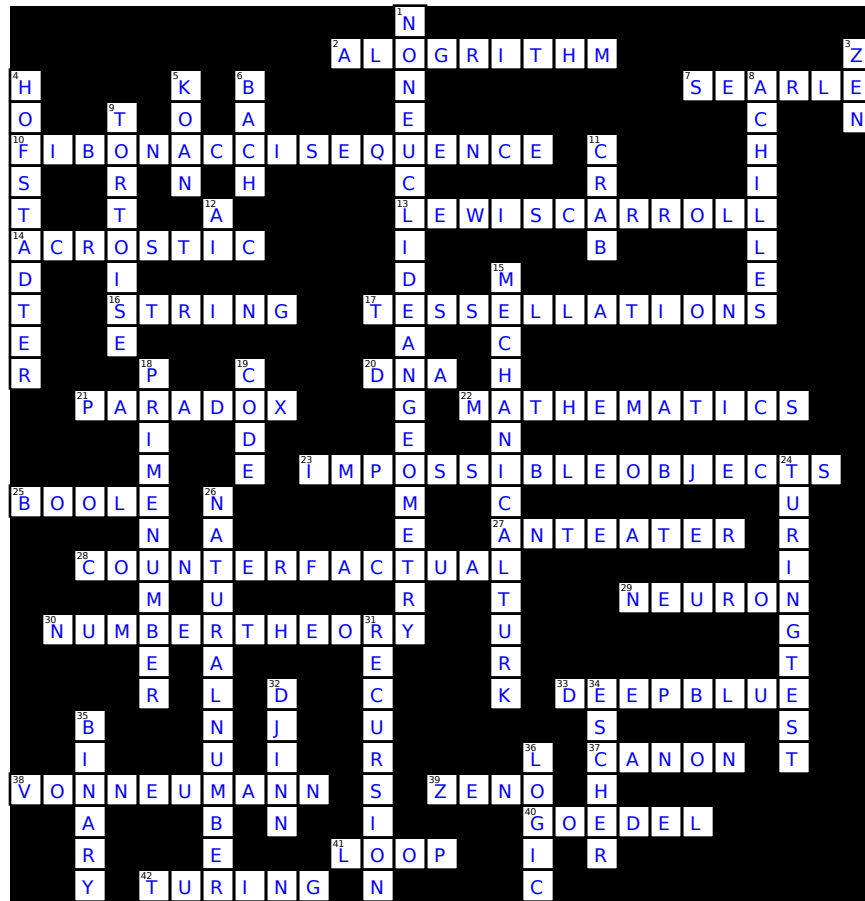


The GEB Crossword

Eric Prichard



Across

- 2 Named after al-Khwarizmi, it is a step by step process for calculations
- 7 Known for the "Chinese Room Problem."
- 10 Famous sequence: 0 11 2 3 5 8 13 21.....
- 13 Mathematician who wrote Alice in Wonderland.
- 14 A poem where the first letter of each line spells out a word or phrase
- 16 In computer science it is a series of characters serving as a literal constant or variale. In formal languages, it is a finite series of symbols taken from a set.
- 17 Two dimensional planes created by using repeating and non-overlapping geometric shapes. Often used in Islamic art.
- 20 Self-replicating nucleic acid containing genetic instructions for all known life.
- 21 A statement that seems to, but frequently does not, lead to a contradiction.
- 22 Field that studies such things as quantity, space, patterns, and the properties of numbers.
- 23 Often incorporated by Escher, these objects can't exist in real life. Examples include the Penrose triangle and devil's tuning fork.
- 25 19th Century English logician, now considered the grandfather of Computer Science.
- 27 Long nosed mammal known for eating ants and termites
- 28 A statement about what would be the case if an untrue antecedent were true.
- 29 An electrically excitable cell which is the basic unit of the nervous system
- 30 Branch of mathematics devoted to study of integers
- 33 Computer that defeated Gary Kasparov.
- 37 A form of music where the melody is repeated at least once after a given number of bars. Bach and Pachelbel are known for theirs.
- 38 Hungarian-American mathematician who was a founding figure in modern computer science and wrote the unfinished "The Computer and the Brain"
- 39 Philosopher who allegedly claimed that motion is an illusion
- 40 Logician famous for his incompleteness theorem
- 41 In computer science, it is a statement that is specified one time, but carried out multiple times, often using recursion.
- 42 Eccentric english mathematician who conceptually figured out how computers could manipulate symbols on a strip of tape using a table of rules. Committed suicide by eating a poisoned apple.

Down

- 1 Geometries based on axioms very similar to Euclid's, with the exception of their treatment of his "Parallel postulate." Examples include elliptic and hyperbolic geometries.
- 3 Derived from the Chinese word Chan, which means meditation, this is a common form of buddhism.
- 4 Cognitive scientist at Indiana University and "Author of Goedel, Escher, Bach"
- 5 A story, riddle, or dialogue used by Zen monks during meditation to help them transcend reason.
- 6 18 century German composer famous for his fugues like Toccata and Fugue in D minor.
- 8 Greek warrior who killed Hector
- 9 Defeated a haire in a race and showed that slow and steady can win
- 11 Ten legged crustacean whose legs are considered a delicacy.
- 12 Abbreviation for term referring to the intelligence of machines and the field of science that tries to improve and study it.
- 15 Fake "automatan" that defeated Napoleon in chess. A chess master hid inside.
- 18 Natural numbers greater than one and with no whole number divisor greater than one
- 19 Quite simply, a way of converting information into a different form of representation. Often we want to "break" or "crack" them.
- 24 Tests A.I. by determining whether a computer's response is distinguishable from a human's response
- 26 Ordinary whole numbers used for counting
- 31 A process of repeating items in a similar way. Often studied in computer science and mathematics.
- 32 Also known as genies, they are mythical beings from Islamic folklore
- 34 Dutch artist famous for his tessellations and visual paradoxes
- 35 A way of representing computer instructions using only 0's and 1's.
- 36 The formal study of reasoning