3-2016

The White Rabbit 12-Puzzle

Chris Morgan

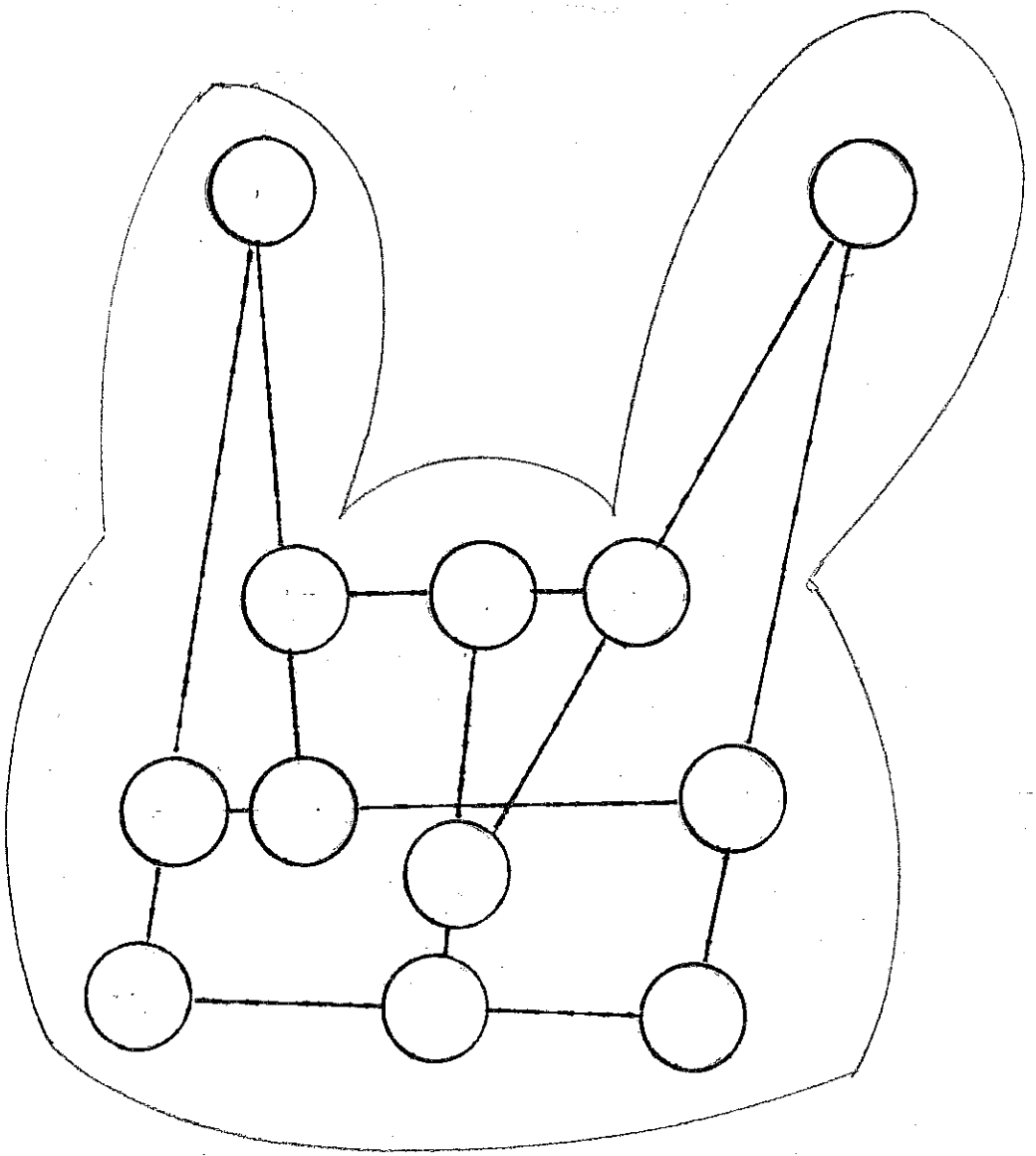
Jeremiah Farrell
Butler University, jfarrell@butler.edu

An Exchange for
G4G12
Atlanta, March 2016

THE WHITE RABBIT 12-PUZZLE

By Chris Morgan
And
Jeremiah Farrell

Martin Gardner's fondness for the characters and themes of Lewis Carroll's "Alice" is well-known and to honor Gardner we offer two word puzzles to be played on the 12-node diagram of the WHITE RABBIT.



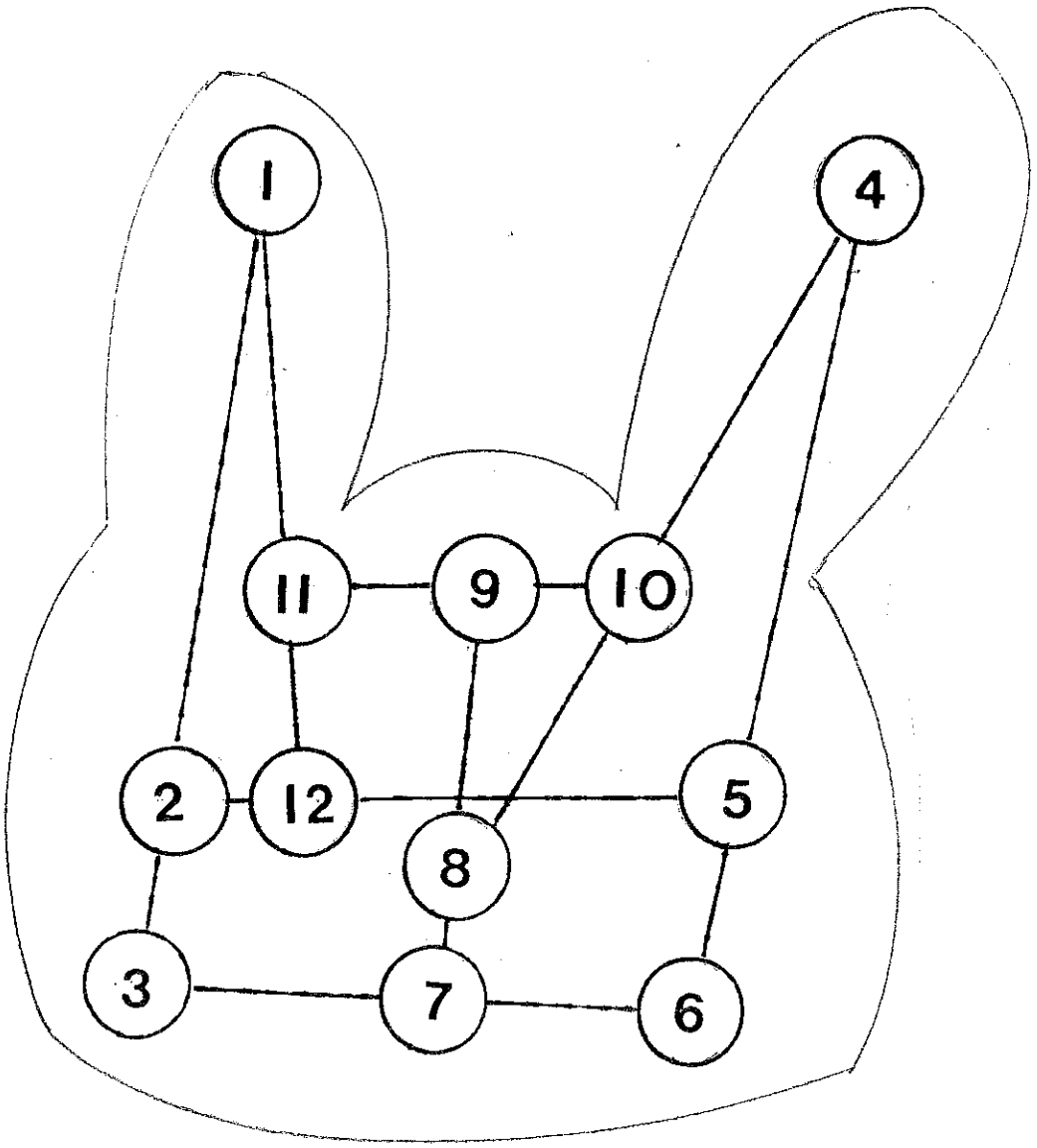
Puzzle 1. There are eight different letters in WHITE RABBIT and each is used exactly three times each to form these 12 words: AR (Argon), AW, BA (Barium), BE, BI (Bismuth), HE, HI, IT, TH (Thorium), TR (Teddy Roosevelt), WE, WR (White Rabbit).

The puzzle is to place these 12 words on the 12 nodes so that connected nodes have a common letter.

Puzzle 2. There are 12 different letters in the phrase DOWN THE RABBIT HOLE. Using these exactly two times each we form eight words:

BAN, BIT, HEW, LED, LOT, RAH, ROD, WIN

Place the 12 different letters on the nodes so that each line of three letters anagrams into one of the eight words.



ANSWERS.

Puzzle 1. The 12 words can be placed in order 1 to 12 thusly:
IT, HI, BI, WE, HE, BE, BA, AW, AR, WR, TR, TH
Notice that each line of three contains a common letter.

Puzzle 2. The 12 letters can be placed in order 1 to 12 thusly:
I, N, W, R, A, H, E, D, L, O, T, B

Both answers are word examples of mathematical geometric configurations.