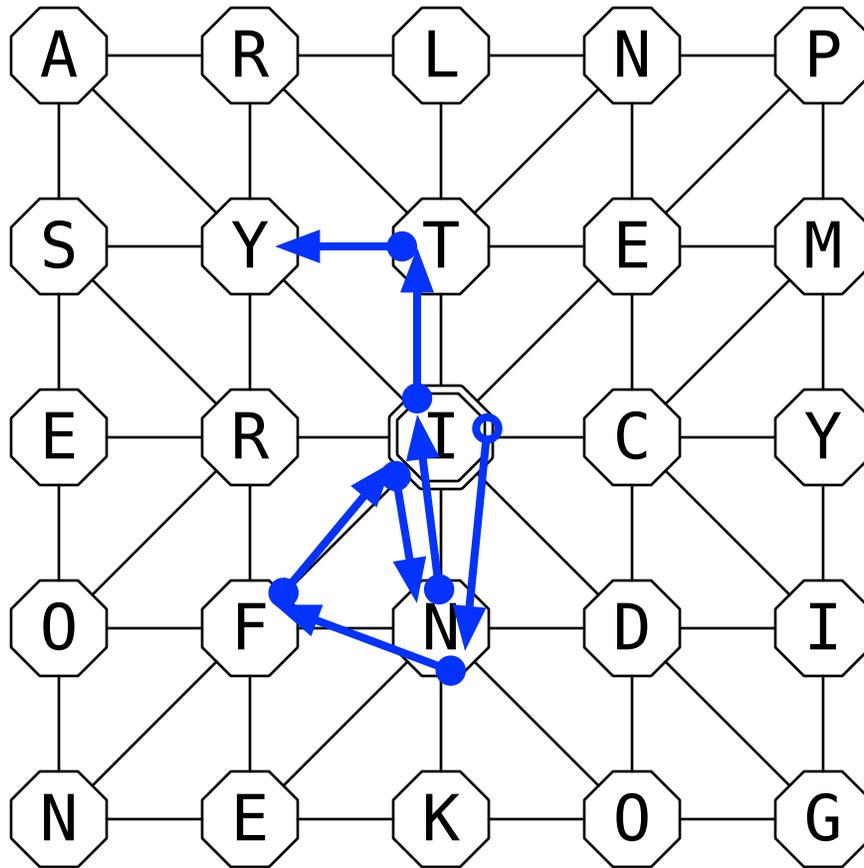




September 2012

Investigate the Antiquated Estate (Solution)

Old Man Professor Doctor Arachno lived in a spooky geodesic dome on a hill at the end of the street. Though he didn't get out much, everyone knew of his love for the number eight. He lived alone, except for his eight experimental cats and bizarre lab equipment. **That mishap with his pinky fingers left him with the perfect number of digits.** The floor of his geodesic dome lair was inlaid with fancy octagonal tile. And traps, of course. After his mysterious disappearance several years ago, rumor circulated about a chest of gold (pieces of eight—what else?) hidden under a tile. Starting at the center, can you find the safe and correct path? Maybe these four clues discovered in one of his notebooks will help guide your way.



- ① XX
- ② Nikki Sixx's other band
- ③ Xenon
- ④ $x^3 + x = 68$

Base-10 Base-8

- ① 20_{10} ① 24_8
- ② 58_{10} ② 72_8
- ③ 54_{10} ③ 66_8
- ④ 4_{10} ④ 4_8

"INFINITY"

