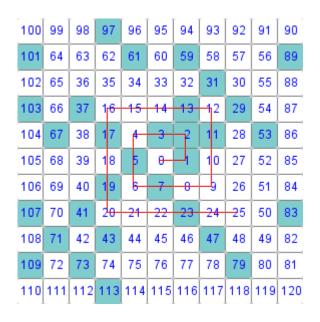
Math 201 - Discrete Mathematics and the Theory of Numbers

Spring Semester 2019

Section 001: MWF 2:45 – 3:35 pm (233 Dumbach Hall)



the prime spiral (aka the Ulam spiral)

Notice that the blue numbers (all primes but for 1) tend to line up along diagonal lines. In a passage from his 1956 novel <u>The City and the Stars</u>, author <u>Arthur C. Clarke</u> describes the prime spiral seven years before Ulam discovered it. Clarke did not notice the pattern revealed by the prime spiral because he never actually experimented.

- Ground Rules
- Piazza
- Homework & Reading Assignments
- Questions for Class Discussion
- Useful References
- History of Number Theory
- Quiz Solutions (Q1, Q2, Q3, Q4, Q5, Q6)
- Practice Tests (T1, T2, T3)
- Test Solutions (T1, T2, T3)
- Essay Topics (extra credit)

On the other hand, it is impossible for a cube to be written as a sum of two cubes or a fourth power to be written as a sum of two fourth powers or, in general for any number which is a power greater than the second to be written as a sum of two like powers. For this I have discovered a truly wonderful proof, but the margin is too small to contain it.

– P. Fermat



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