

Some topics:

fractals (julia set)

a particular sequence (fibonacci numbers, catalan numbers, etc.)

prime numbers

generating functions

4 color problem

travelling salesman problem

a brief summary of the life/contributions of a prominent pioneer of computer science (ie Jack Edmonds, that guy whose name i should remember that build the “first computer” that broke the enigma code during WWII)

computational complexity (ie P vs NP)

recent progress in famous unsolved problems (ie Goldbach conjecture, twin prime conjecture)

your ideas are also welcome and encouraged...just let me know what you plan on doing