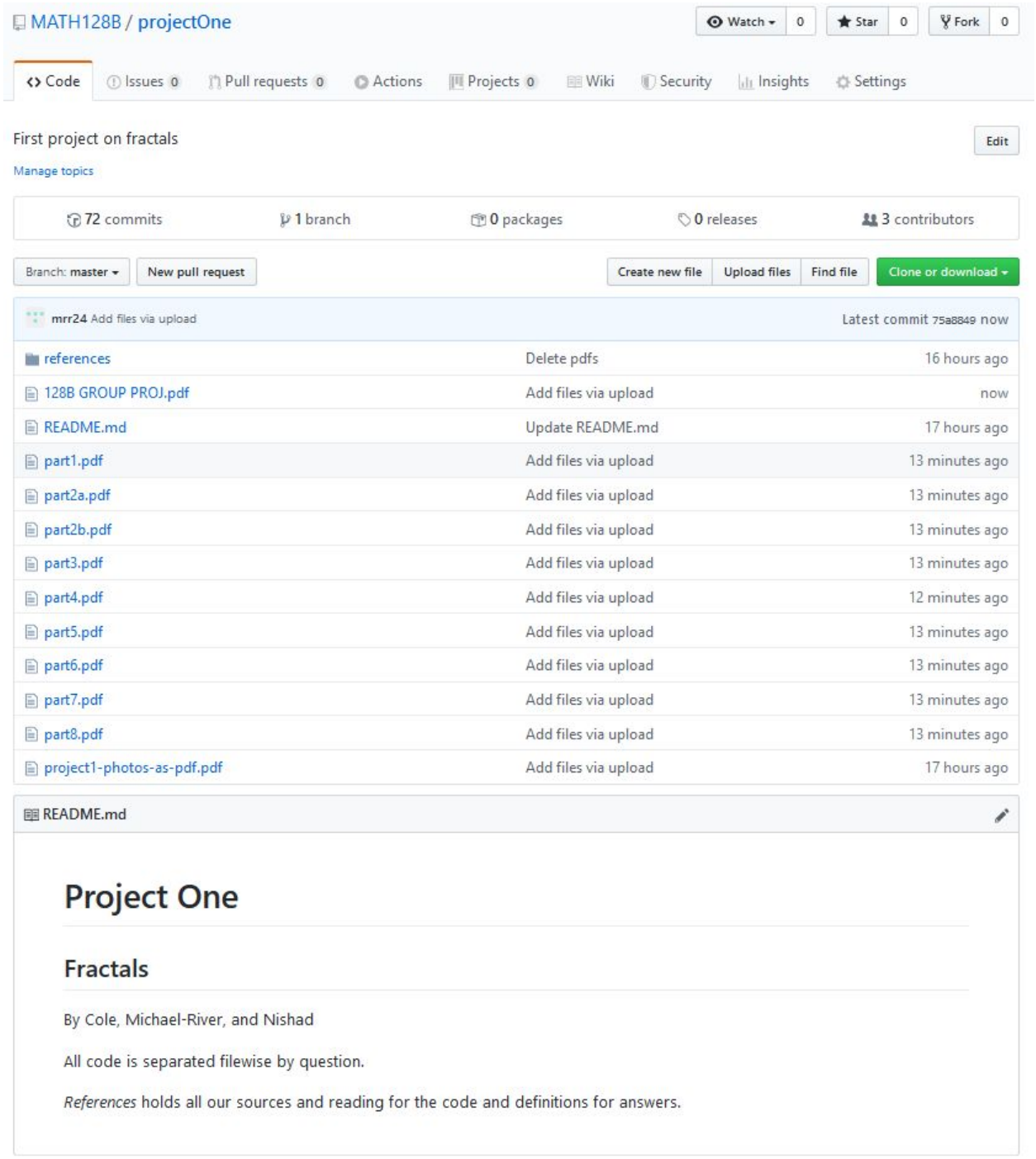
MAT 128B: Project I: Using iteration methods to understand fractal geometry
Wednesday, Feb. 19th
To get full credit show all your work and explain in your words the results you obtain
Names: Cole Warner, Michael-River Rose, Nishad Mulay
[100 pts]

Our team is organized in the following way: Cole and Michael-River focused on the questions about generating Julia sets and Mandelbrot sets as well as determining the fractal dimension, roughly parts one through four, and eight; Nishad focused on the questions concerning the orbit of a Julia set, coloring said orbits, and Newton's method - roughly parts five through seven. In terms of writing up this project, Michael-River published the code for parts one and eight and did much of the writing and document proofreading and organizing; Cole published code for parts two through four; Nishad published code for parts five through seven.
Additionally, we made use of Github to track our progress, maintain a code base, and keep our work and resources straight. On the following page is a screen capture of our collaboration on Git.



Additional References:

1.) Dynamical Systems with Applications using MATLAB 2nd Edition by Stephen Lynch [Chapters 3 & 4]
2.) Efficient Computation of Julia Sets and Their Fractal Dimension. Dietmar Saupe.