

Test Plan for Fibonacci sequence:

I started by testing the website after it was pushed to an Amazon AWS server to see how user interaction happened. Once I figured out how to operate the website I began to try to break it with strange inputs, like strings, large numbers, negative numbers, decimals ect. Once I had found some bugs I began to write the api tests in pytest to attempt to expose more. Starting with base cases I worked my way through the tougher inputs, testing strange inputs again. I worked my way through get requests and started to test other REST verbs like delete, post, put etc. I then moved onto testing many inputs at one time to see how the api reacted.

Ideas for what to test:

- basic inputs

- large number inputs (> 1 million)

- negative numbers

- decimal numbers

- strings

- math functions (6*5)

- parenthesis around numbers

- combinations of letters and numbers

- many requests at one time

- rest api verbs (delete,post,put,head,options,patch)

- test misspelled url

- attempt to cover all code in application.py (cause all errors that are handled)

- look at how queries are handled (?random=test)

- attempt to change header or json with a post to cause 400 error