

TMC Learn2Code Week 5: In-Class Problems

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1 Homework Review

Review each of the problems at the end of eloquent javascript chapter 3. Strive for everyone in the group to be able to clearly explain the answer to each of those problems.

2 Using Functions

Write a solution to this problem in which the user input described is the supplied as the input to a function (you can decide the specifics): [generalized fizz buzz on rosetta code](#)

This should help you to reason through how you can use the inputs to your functions to "generalize" your program by "abstracting" away certain specific details. This is what the author is showing you at the end of chapter 3 by organizing the functions in different ways. This activity really gets at the heart of what mathematics and programming are all about. The best resource I know of on this topic is Eugenia Cheng's popular math book "How to Bake Pi."

3 More Recursion

Write a recursive function that solves this problem: [fibonacci sequence problem on rosetta code](#)

To provide some context on the importance of the Fibonacci sequence and how it might emerge as a useful tool, here is some background on it's origin in Indian poetry well before the time of Fibonacci: [Article on Fibonacci Sequence in Sanskrit Poetry](#)