



## Code Review

Another technique to increase your confidence in the correctness of your program is a *code review*. In a code review, another skilled programmer reviews the code you have written, looking for mistakes you might have made. Such a review is another way to address the “how to test for problems you did not think of” problem—the reviewer brings a fresh perspective to the code and may identify areas of concern you did not think about. Code reviews have one nice advantage over other forms of testing: often when your reviewer identifies a problem, she can propose steps towards fixing it.

One form of code review is a *code walk-through* in which the programmer explains the algorithm and code to the reviewer. Typically, the reviewer is familiar with the problem and algorithm required to solve it, so the walk-through focuses on the code itself. The programmer goes line-by-line through the code, explaining to the reviewer what each line does, and why it is there. If the reviewer is not familiar with the problem/algorithm, the walk-through process may start with the programmer walking the reviewer through earlier steps of the programming process—possibly even starting from Step 1: Work an instance of the problem yourself.

1.5.5 Code Review

We are going to wrap up this portion on testing by having you all generate some test cases for problem statements. We want you to apply the ideas we talked about here to come up with good test cases in these assignments. To help solidify the concepts before your assignment, we are going to walk through an example of making test cases for a particular problem in the next video.

## Blackbox Testing Walkthrough



### Day 5, Part 1

Now it is time to do **07\_tests\_prime** on the Mastery Learning Platform. Login to the course server, go to assignment **07\_tests\_prime** in your git repository on the MLP and read the README for directions. After you've completed that assignment, then complete **08\_tests\_match5** on the Mastery Learning Platform. When you have passed those assignments, return to Sakai and continue with the content here.

### Day 5, Part 2

- ☒ [Testing Knowledge Check](#)
- Please use this Quiz to test your knowledge of testing (so far)