

# CISC106 Fall 2009 Project I Part I

## How to write a test function for the project

1. Read the comments for the function.
2. A test is named `<fcn name>Test.m` and must be a function
3. A test function only tests one function and must work when run by itself (it cannot rely on other functions). It may call other functions, but avoid calling project functions when possible. If you must call project functions, you should only call functions that have already been tested and written.
4. A test function prints only one line if the function passes, no matter how many tests it performs.
5. A test may print more than one line if a function fails, as determined by the team and the Documentarian.
6. Find the person who was assigned to write the function.
7. Discuss your understanding of the function description, and then *write* the contract together. Then *write* examples of inputs and outputs. Do *not* share information about how the outputs will be derived from the inputs - this must be done separately for the testing to be effective.
8. If there are any outstanding questions about the description, discuss the questions with your team. If you have questions about an algorithm or translation to Matlab, discuss with your teammates or TA (but not the person writing the test).
9. Write the test function.
10. When you think the test function will work properly, email it to the person writing the function (and copy the rest of the team).
11. Receive the function. Run it in your test function. Does the function behave appropriately for the test data? Discuss with your tester and team.
12. Make changes in your program or request changes in the function until the test function passes the function. Try to solve any disputes within your team; as a last resort, forward a question to the TA or Professor. Be sure to include both the function the test function, and any supporting functions.