

# Modules Lab

In this lab we'll get some experience with using one JavaScript file in another.

1. Partner 1 should create a test called `listThings.spec.js`. Put in it a describe and one test. Just make that test a stub to prove that the tests are running.
2. And go for it! Run your tests to prove that your new test runs and that the old tests are passing.
3. Partner 2 now will create a failing test. It should call a function like this:  
`const listOfPeople = listThings("div", ["Tahani", "Chidi", "Jianyu"]);`
4. It should then test to see if the response is exactly this:  
`"<div>1. Tahani</div><div>2. Chidi</div><div>3. Jianyu</div>"`
5. Partner 2 runs this test and of course it fails because `listThings()` doesn't exist yet.
6. Partner 1 will be responsible for making the test pass. They should create a new JavaScript file under `src`. Call it `listThings.js`.
7. Partner 1 will create a function that will receive in two parameters, a string and an array. This function should return each array item numbered and wrapped in an HTML tag that is the string passed in.
8. Partner 1 should export that function from the file. Then import it into the test file.
9. Run the tests and adjust until they pass.

## A new test

We want to combine `listThings` with our roman numeral convertor. In the spirit of TDD, let's write the test first. We have a new requirement -- to be able to print the numbered list with roman numerals instead of decimal numerals. You should be able to pass a third parameter to the function that will signal it to print roman numerals.

10. Partner 1 will edit the `listThings.spec.js` and add a new test: "can print roman numerals when needed". It will pass that third parameter and expect to see:  
`"<div>i. Tahani</div><div>ii. Chidi</div><div>iii. Jianyu</div>"`  
This test will fail of course. Let's turn it over to partner 2 to make it pass.
11. Partner 2, you should change `listThings.js`. Do some of these things to make the test pass:
  - Import `romanNumeralConvertor` into `listThings.js`
  - Receive that third parameter into `listThings`. Probably want to give it a default value so the original test still passes.
  - If the parameter is passed, run your converter to get a roman numeral to print instead of the decimal one
12. Run and test until it works.