## Week 10 Exercises Submit

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## Exercise 1: Recursive Function Practice

## Starter Code:

https://github.com/sandraleeusc/csci104\_fall2020\_lecture/blob/master/allproducts.cpp

- 1. Write a recursive function, all Products, that given a set of primes, returns a vector of all of the products of the primes?
- 2. Trace the function allProducts on the set of primes {2,3}

## Starter code:

https://github.com/sandraleeusc/csci104\_fall2020\_lecture/blob/master/nqueens.cpp

- 1. Modify the given N Queens code to print out all solutions for an n x n board.
- 2. Trace the code for  $4 \times 4$  board until it prints out its first solution. You can use the debugger or you can use a pen and paper trace.
- 3. [Optional] How would you change this code to use more modern C++ memory management practices?