# Project 2 Practice with Primes

#### Goal

Resurrect your C++ skills

# Summary

Develop a program that generates prime numbers

## Inputs

- Number of prime numbers to be generated
- Number of columns in the display (see ex2.cpp)

# Output

• N columns of prime numbers, where N is the second parameter under "Inputs."

#### **Behavior**

The program will:

- Ask the user how many prime numbers should be generated. Call this P.
- Ask the user how many columns should appear in the display. Call this N.
- Generate the first P prime numbers displayed over N columns as in ex2.cpp.

### **Other Requirements**

- No global variables
- The program is decomposed such that the major work occurs outside of main()
- The program has at least this function:

```
/*
```

Pre: num is an integer > 1

Post: returns true if num is prime, false otherwise

\*/

bool is prime(int num)

## Extra Credit

There is an obvious way to determine if an integer is prime and a much more efficient but less obvious way. +5 if your program uses the less obvious way. There is only one correct answer.