CS111 Assignment 7

Write a complete C++ program that does the following:

a. Program prompts user to input a positive integer \( x \) greater than 1000. If the inputted value is invalid, program continuously prompts user to input a valid number. Program then finds the biggest digit of the \( x \) by using \( \text{biggestDigit} \) function (c). And prints all the prime numbers from 0 to 100 using \( \text{isPrime} \) function (b).

b. \textit{boolean isPrime(int x)} tests if a number is a prime number. If the given parameter is prime, then the function returns true; otherwise, it returns false. Prime number is a number that is only divisible by one and itself.

c. \textit{int biggestDigit(int x)} finds the biggest digit in the given parameter, and returns that value.