Exercise 1: 4 Digit Guess

Randomly generate a 4-digit number. Ask the user to guess a 4-digit number. For every digit that the user guessed correctly in the correct place, they have a “Tree”. Every digit the user guessed correctly in the wrong place is a “Stump.” Every time the user makes a guess, tell them how many “Trees” and “Stumps” they have and how many guesses they have made.

Once the user guesses the correct number, the game is over and tell the user at the end. Give the option to play again.

Ensure that you are validating for correct user input. For debugging purposes, display the randomly generated number at the top of the program.

