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//
//      Name: Thurlow, Taylor
//      Project: 2
//      Due: 10/26/2016
//      Course: cs25602
//
// Description:
//      A guessing game. Generates a random number between 1 and 100, and asks the user
//      to guess the right value. It will tell you higher or lower. To quit, give the
//      number 0. After 8 incorrect answers, the game will quit and give you the correct
//      answer.
//

#include <iostream>
#include <cmath>
#include <cstdlib>

using namespace std;

int getGuess() {
    bool validGuess = false;
    while (!validGuess) {
        string guess;
        cout << "Please enter your guess? ";
        cin >> guess;
        int guessInt = stoi(guess);
        if (guessInt <= 100 && guessInt >= 0) return guessInt;
    }
    return 0;
}

```

```

int main(int argc, char *argv[]) {
    cout << "T. Thurlow's Guess-my-Number" << endl << endl;
    cout << "A secret number between 1-100 generated..." << endl << endl;
    bool win = false, quit = false;
    int incorrectGuesses = 0;
    srand(time(NULL));
    int secret = 1 + (rand() % 100);
    while (!win && !quit && incorrectGuesses != 8) {
        int guess = getGuess();
        if (guess == secret) {
            win = true;
        } else {
            if (guess > secret && guess != 0) cout << "Guess is high..." << endl;
            if (guess < secret && guess != 0) cout << "Guess is low..." << endl;
            if (guess == 0) quit = true;
            incorrectGuesses++;
        }
    }
    if (win) cout << "Correct in " << incorrectGuesses + 1 << " guesses." << endl;
    if (quit) cout << "The secret number is " << secret << "." << endl;
    if (incorrectGuesses == 8) cout << "Too many guesses, the secret number is " << secret << "." << endl;

    return 0;
}

```