```
#include <iostream>
#include <cstdlib>
#include <ctime>
using namespace std;
int main() {
  // Seed the random number generator with the current time
  srand(static_cast<unsigned int>(time(0)));
  // Generate a random number between 1 and 100
  int randomNumber = rand() \% 100 + 1;
  int guess = 0;
  int attempts = 0;
  cout << "Welcome to the Number Guessing Game!" << endl;
  cout << "I have selected a number between 1 and 100." << endl;
  cout << "Can you guess what it is?" << endl;
  // Loop until the user guesses the correct number
  while (guess != randomNumber) {
    cout << "Enter your guess: ";
    cin >> guess;
    attempts++;
    if (guess > randomNumber) {
      cout << "Too high! Try again." << endl;
    } else if (guess < randomNumber) {
      cout << "Too low! Try again." << endl;
    } else {
      cout << "Congratulations! You guessed the correct number: " <<
randomNumber << endl;
      cout << "It took you " << attempts << " attempts to guess the number."
<< endl;
  }
  return 0;
```

Output

Welcome to the Number Guessing Game! I have selected a number between 1 and 100.

Can you guess what it is?

Enter your guess: 5
Too low! Try again.
Enter your guess: 85
Too high! Try again.
Enter your guess: 50
Too high! Try again.
Enter your guess: 45
Too low! Try again.
Enter your guess: 46

Enter your guess: 47 Too low! Try again.

Too low! Try again.

Enter your guess: 48

Congratulations! You guessed the correct number: 48

It took you 7 attempts to guess the number.