```cpp
//CHAPTER 5 EXAMPLE 6
//Flag-controlled while loop
//Number guessing game

#include <iostream>
#include <cstdlib>
#include <ctime>

using namespace std;

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int main()
{

//declare the variables and given identifier

int num;
int guess;
bool isGuessed;

srand(time(0));
num = rand () % 100;

isGuessed = false;

while (!isGuessed)
{
    cout << "Enter an integer greater "
         << "than or equal to 0 and "
         << "less than 100: ";
    cin >> guess;
    cout << endl;

    if (guess == num)
    {
        cout << "You guessed the correct"
             << "number." << endl;
```

```cpp
            isGuessed = true;
        }
        else if (guess < num)
            cout << "Your guess is lower than the "
                 << "number.\n Guess again!"
                 << endl;

        else
            cout << "Your guess is higher than the "
                 << "number.\n Guess again!"
                 << endl;

    }

    return 0;

}
```