## Main.cpp

```
#include "randomNumber.h"

int main()
{
   RandomNumber rn;

   rn.start();

   return 0;
}
```

## randomNumber.h

```
#include <ctime>

#include <ctime>

class RandomNumber
{
private:
   int random;
   int guess;

public:
   void start();
   void displayMessage();
   void check(int guess);
   void winScreen();
};
```

## randomNumber.cpp

```
#include "randomNumber.h"
```

```
#include <ctime>
using namespace std;
void RandomNumber::start()
   srand(time(0));
   random = rand() % 100 + 1;
   cout << "----Random Number Game----" << endl;</pre>
   displayMessage();
void RandomNumber::displayMessage()
   guess = 0;
   cout << "Please input your guess: ";</pre>
   cin >> guess;
   while (guess < 1)</pre>
       cin.clear();
       cin.ignore();
       cout << "Invalid guess. Please re-enter. ";</pre>
       cin >> guess;
   check(guess);
```

```
};
void RandomNumber::check(int guess)
   if (guess > random)
       cout << "Your answer is too high! Try again." << endl;</pre>
       displayMessage();
  else if (guess < random)</pre>
       cout << "Your answer is too low! Try again." << endl;</pre>
       displayMessage();
  else if (guess = random)
       winScreen();
void RandomNumber::winScreen()
   cout << "\nCongratulations! You got it! Click enter to</pre>
restart. ";
  cin.get();
  cin.get();
  cout << endl;</pre>
  start();
```

```
----Random Number Game----
Please input your guess: 50
Your answer is too low! Try again.
Please input your guess: 70
Your answer is too high! Try again.
Please input your guess: 60
Your answer is too low! Try again.
Please input your guess: 67
Your answer is too high! Try again.
Please input your guess: 65
Your answer is too high! Try again.
Please input your guess: 64
Your answer is too high! Try again.
Please input your guess: 63
Your answer is too high! Try again.
Please input your guess: 62
Congratulations! You got it! Click enter to restart.
----Random Number Game----
Please input your guess: a
Invalid guess. Please re-enter. 10
Your answer is too low! Try again.
```

```
Please input your guess: a
Invalid guess. Please re-enter. 10
Your answer is too low! Try again.
Please input your guess: a
Invalid guess. Please re-enter. 60
Your answer is too high! Try again.
Please input your guess: 50
Your answer is too low! Try again.
Please input your guess: 56
Your answer is too high! Try again.
Please input your guess: 54
Congratulations! You got it! Click enter to restart.
```