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4 // Version      :
5 // Copyright    : Your copyright notice
6 // Description  : Hello World in C++, Ansi-style
7 //=====
8
9 #include <iostream>
10 #include <cstdlib> //srand and random
11 #include <ctime>
12 using namespace std;
13
14 int main() {
15     srand (time(0));
16     int guess;
17     int num = 1 + rand()%1000;
18     char selection;
19     int counter = 0;
20     for (;;) {
21         cout << "I have a number between 1 and 1000." << endl;
22         cout << "Can you guess my number?" << endl;
23         cout << "Please type your guess." << endl;
24         cin >> guess;
25         if (guess == num) {
26             cout << "Excellent! You guessed the number!" << endl;
27             counter++;
28             if (counter < 10) {
29                 cout << "Either you know the secret or you got lucky!" << endl;
30             }
31             else if (counter == 10) {
32                 cout << "Ahh! You know the secret!" << endl;
33             }
34             else {
35                 cout << "You should be able to do better!" << endl;
36                 cout << "Would you like to play again(Y or N)?" << endl;
37                 cin >> selection;
38                 if (selection == 'Y') {
39                     continue;
40                 }
41                 else {
42                     return 0;
43                 }
44             }
45             if (guess < num) {
46                 cout << "Too low. Try again." << endl;
47                 counter++;
48             }
49             else if (guess > num) {
50                 cout << "Too high. Try again." << endl;
51                 counter++;
52             }
53         }
54         return 0;
55     }
56 }
57

```

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H34086115_hw8.exe [C/C++ Application] C:\Users\
Can you guess my number?
Please type your guess.
125
Too low. Try again.
I have a number between 1 and 1000.
Can you guess my number?
Please type your guess.
200
Too high. Try again.
I have a number between 1 and 1000.
Can you guess my number?
Please type your guess.
175
Too high. Try again.
I have a number between 1 and 1000.
Can you guess my number?
Please type your guess.
150
Too low. Try again.
I have a number between 1 and 1000.
Can you guess my number?
Please type your guess.
167
Too high. Try again.
I have a number between 1 and 1000.
Can you guess my number?
Please type your guess.
160
Too high. Try again.
I have a number between 1 and 1000.
Can you guess my number?
Please type your guess.
155
Too low. Try again.
I have a number between 1 and 1000.
Can you guess my number?
Please type your guess.
157
Too low. Try again.
I have a number between 1 and 1000.
Can you guess my number?
Please type your guess.
158
Too low. Try again.
I have a number between 1 and 1000.
Can you guess my number?
Please type your guess.
159
Excellent! You guessed the number!
You should be able to do better!
Would you like to play again(Y or N)?

```