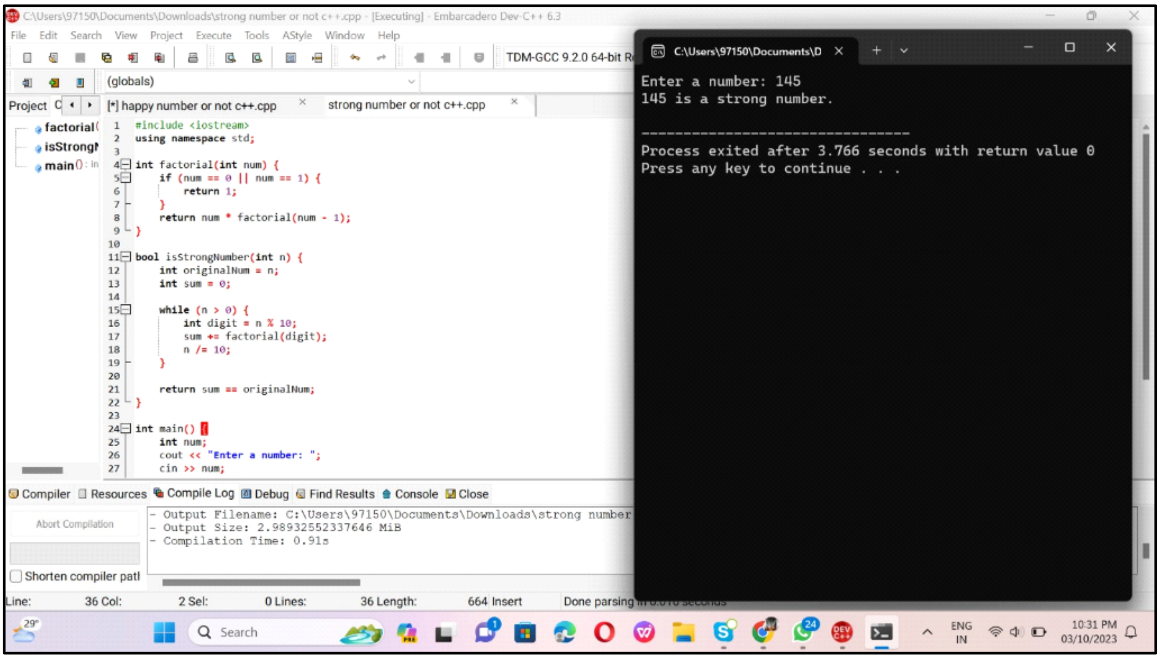
C:\Users\97150\Documents\Downloads\strong number or not c++.cpp - [Executing] - Embarcadero Dev-C++ 6.3
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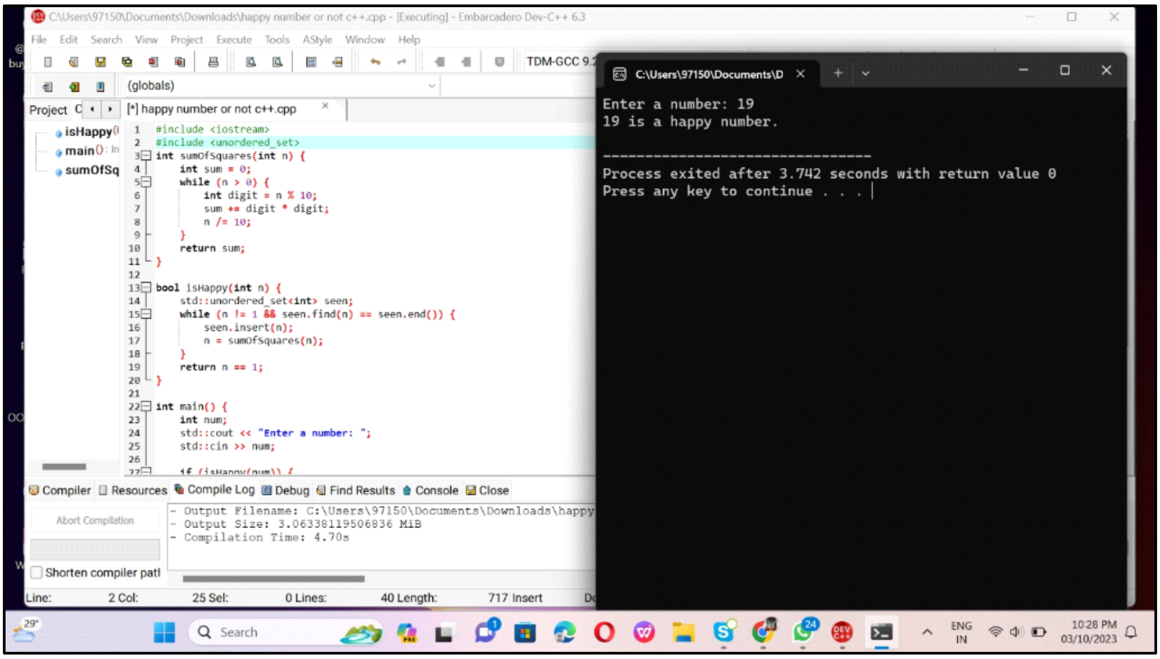
```cpp
#include <iostream>
using namespace std;

int factorial(int num) {
    if (num == 0 || num == 1) {
        return 1;
    }
    return num * factorial(num - 1);
}

bool isStrongNumber(int n) {
    int originalNum = n;
    int sum = 0;

    while (n > 0) {
        int digit = n % 10;
        sum += factorial(digit);
        n /= 10;
    }

    return sum == originalNum;
}

int main() {
    int num;
    cout << "Enter a number: ";
    cin >> num;
```

```
- Output Filename: C:\Users\97150\Documents\Downloads\strong number
- Output Size: 2.98932552337646 MiB
- Compilation Time: 0.91s
```

Line: 36 Col: 2 Sel: 0 Lines: 36 Length: 664 Insert Done parsing

```
Enter a number: 145
145 is a strong number.

--------------------------------
Process exited after 3.766 seconds with return value 0
Press any key to continue . . .
```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```cpp
#include <iostream>
#include <unordered_set>
int sumOfSquares(int n) {
    int sum = 0;
    while (n > 0) {
        int digit = n % 10;
        sum += digit * digit;
        n /= 10;
    }
    return sum;
}

bool isHappy(int n) {
    std::unordered_set<int> seen;
    while (n != 1 && seen.find(n) == seen.end()) {
        seen.insert(n);
        n = sumOfSquares(n);
    }
    return n == 1;
}

int main() {
    int num;
    std::cout << "Enter a number: ";
    std::cin >> num;

    if (isHappy(num)) {
```

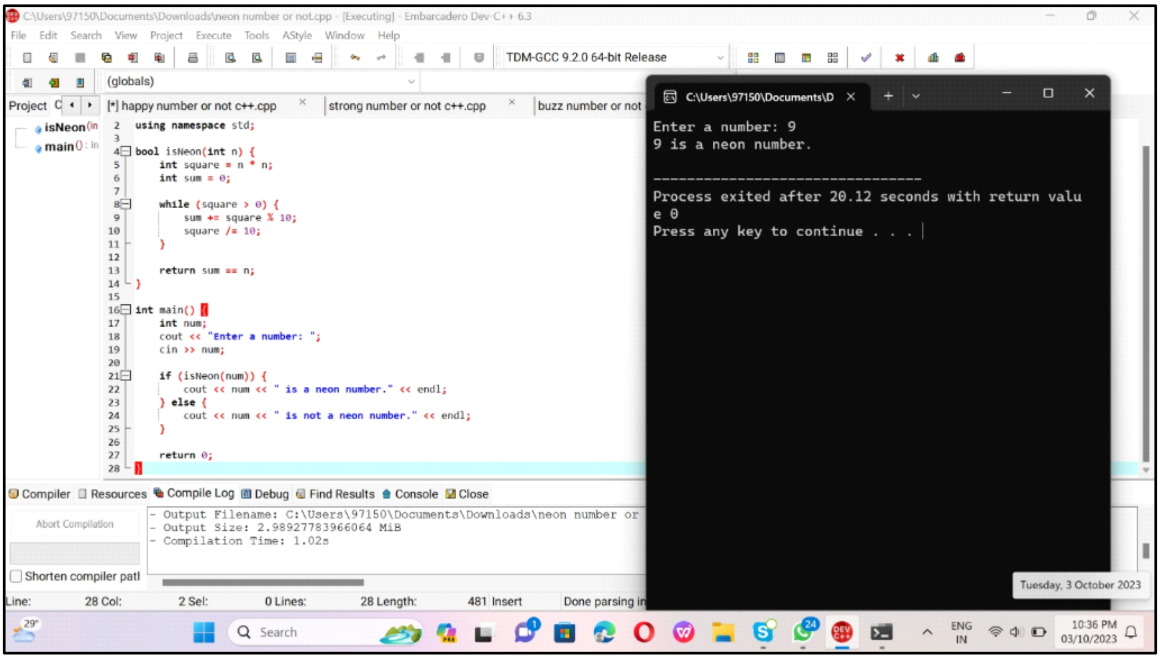
```
- Output Filename: C:\Users\97150\Documents\Downloads\happy
- Output Size: 3.06338119506836 MiB
- Compilation Time: 4.70s
```

Line: 2 Col: 25 Sel: 0 Lines: 40 Length: 717 Insert

```
Enter a number: 19
19 is a happy number.

--------------------------------
Process exited after 3.742 seconds with return value 0
Press any key to continue . . .
```

Edit with WPS Office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buzz number or not
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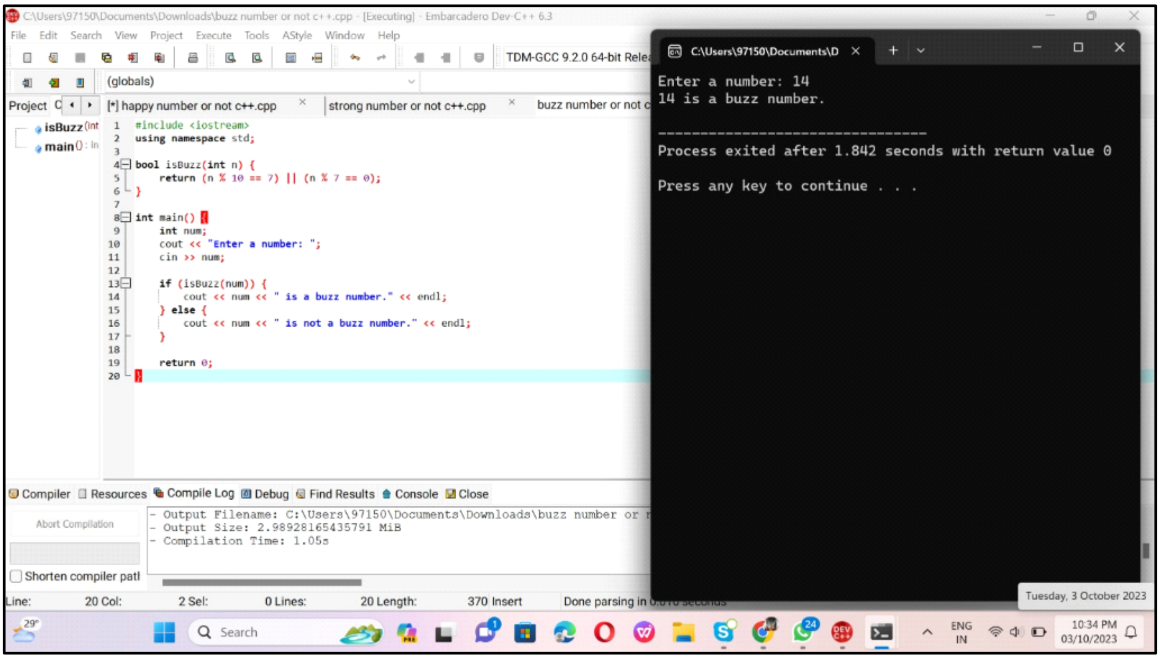
Compiler Resources Compile Log Debug Find Results Console Close
Abort Compilation
Shorten compiler patl
Line: 28 Col: 2 Sel: 0 Lines: 28 Length: 481 Insert Done parsing in
Tuesday, 3 October 2023
10:36 PM 03/10/2023

```cpp
using namespace std;

bool isNeon(int n) {
    int square = n * n;
    int sum = 0;

    while (square > 0) {
        sum += square % 10;
        square /= 10;
    }

    return sum == n;
}

int main() {
    int num;
    cout << "Enter a number: ";
    cin >> num;

    if (isNeon(num)) {
        cout << num << " is a neon number." << endl;
    } else {
        cout << num << " is not a neon number." << endl;
    }

    return 0;
}
```

```
- Output Filename: C:\Users\97150\Documents\Downloads\neon number or
- Output Size: 2.98927783966064 MiB
- Compilation Time: 1.02s
```

```
Enter a number: 9
9 is a neon number.

--------------------------------
Process exited after 20.12 seconds with return valu
e 0
Press any key to continue . . .
```


C:\Users\97150\Documents\Downloads\buzz number or not c++.cpp - [Executing] - Embarcadero Dev-C++ 6.3
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Shorten compiler patl
Line: 20 Col: 2 Sel: 0 Lines: 20 Length: 370 Insert Done parsing in
Tuesday, 3 October 2023
10:34 PM 03/10/2023

```cpp
#include <iostream>
using namespace std;

bool isBuzz(int n) {
    return (n % 10 == 7) || (n % 7 == 0);
}

int main() {
    int num;
    cout << "Enter a number: ";
    cin >> num;

    if (isBuzz(num)) {
        cout << num << " is a buzz number." << endl;
    } else {
        cout << num << " is not a buzz number." << endl;
    }

    return 0;
}
```

```
- Output Filename: C:\Users\97150\Documents\Downloads\buzz number or r
- Output Size: 2.98928165435791 MiB
- Compilation Time: 1.05s
```

```
Enter a number: 14
14 is a buzz number.

--------------------------------
Process exited after 1.842 seconds with return value 0

Press any key to continue . . .
```

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