```
X File Edit Selection View Go ···
                                                                           Computer Network
                                                                                                                                 ▷ ∨ 🚳 🖽 …
c
        EXPLORER
                                                                    C++ Assign3.cpp X \( \begin{array}{ll} \text{Extension: C/C++} \end{array}

∨ COMPUTER NETWORK

                                C++ Assign3.cpp > ♦ main()
                                       #include <iostream>
          C++ Assign1.cpp
                                       #include <vector>
          C++ Assign2.cpp
           C++ Assign3.cpp
                                       using namespace std;
                                       vector<int> bitwiseXOR(const vector<int>& a, const vector<int>& b) {
                                         vector<int> result(max(a.size(), b.size()));
vector<int> leftShift(const vector<int>& data, int shift) {
                                         vector<int> result(data.size() + shift, 0);
                                        copy(data.begin(), data.end(), result.begin() + shift);
                                       vector<int> calculateCRC(const vector<int>& data, const vector<int>& generator) {
                                         vector<int> dividend(data);
                                         int divisor_length = generator.size();
(8)
                                         while (dividend.size() >= divisor_length) {
      > OUTLINE
       > TIMELINE
                                           if (dividend[0] == 0) {
     ⊗ 0 △ 0 🕸 0
                                                                                                           Ln 42, Col 52 Spaces: 4 UTF-8 CRLF {} C++ Win32 Q
                                                                                                                  ^ 🖷 🖫 ENG
US
                                                                                                                                     令 (小) ■ 3:42 PM 및 3/15/2024 具
                        Q Search
```

```
X File Edit Selection View Go ···
                                                                              Computer Network
                                                                                                                                      ▷ ∨ 🚳 🖽 …
c
         EXPLORER
                                                                      C++ Assign3.cpp X \( \begin{array}{ll} \text{Extension: C/C++} \end{array}

∨ COMPUTER NETWORK

                                 C++ Assign3.cpp > ♦ main()
                                        vector<int> calculateCRC(const vector<int>& data, const vector<int>& generator) {
           C++ Assign1.cpp
                                            if (dividend[0] == 0) {
  dividend.erase(dividend.begin());
           C++ Assign2.cpp
           C++ Assign3.cpp
                                            vector<int> remainder = bitwiseXOR(dividend, generator);
                                            dividend = remainder;
                                          dividend.insert(dividend.end(), divisor_length - 1, 0);
return dividend;
                                        int main() {
                                  42
                                          vector<int> crc = calculateCRC(data, generator);
                                          cout << "Data: ";</pre>
                                          for (int bit : data) {
(8)
                                          cout << "Generator Polynomial: ";</pre>
       > OUTLINE
       > TIMELINE
                                            cout // hit
     ⊗ 0 △ 0 🕸 0
                                                                                                              Ln 42, Col 52 Spaces: 4 UTF-8 CRLF {} C++ Win32 Q
                                                                                                                      ^ 🖷 🖫 🛱 US
                                                                                                                                          중 Φ) ■ 3:43 PM
3/15/2024 ♣
                         Q Search
```

