

Logical:

1. Find the First Non-Repeating Character

Faulty Code (With Logical Errors):

```
#include <iostream>

#include <string>

using namespace std;

int firstNonRepeatingChar(string s) {

    int freq[26] = {0};

    for (int i = 0; i < s.length(); i++)

        freq[s[i]]++;

    for (int i = 0; i < s.length(); i++)

        if (freq[s[i]] == 1)

            return i;

    return -1;

}

int main() {

    string str = "programming";

    int index = firstNonRepeatingChar(str);

    cout << "First non-repeating character index: " << index << endl;

    return 0;

}
```

Syntax

1. code:

```
#include <iostream>

using namespace std;

int main() {

    const int *ptr;

    *ptr = 10;

    cout << *ptr << endl;

    return 0;

}
```