

1)

```
#include <bits/stdc++.h>
using namespace std;

bool isPalindrome(string s){
    bool ans = true;
    int size = s.size();
    for(int i = 0; i < size/2; i++){
        if(s[i] != s[size-i-1]){
            ans = false;
            break;
        }
    }
    return ans;
}

void makeStringRight(string &s){
    string temp = "";
    for(int i = 0; i < s.size(); i++){
        if(s[i] >= 'A' && s[i] <= 'Z'){
            char ch = s[i] - 65;
            temp += ch;
        }
        if(s[i] >= 'a' && s[i] <= 'z'){
            char ch = s[i] - 97;
            temp += ch;
        }
    }
    s = temp;
}

int main()
{
    string str;
    getline(cin, str);
    makeStringRight(str);
    if(isPalindrome(str)){
        cout << "string is palindrome.\n";
    }else{
        cout << "string is not palindrome.\n";
    }
    return 0;
}
```

```

13     return ans;
14 }
15
16 void makeStringRight(string &s){
17     string temp = "";
18     for(int i = 0; i < s.size(); i++){
19         if(s[i] >= 'A' && s[i] <= 'Z'){
20             char ch = s[i] - 65;
21             temp += ch;
22         }
23         if(s[i] >= 'a' && s[i] <= 'z'){
24             char ch = s[i] - 97;
25             temp += ch;
26         }
27     }
28     s = temp;
29 }
30
31 int main()
32 {
33     string str;
34     getline(cin, str);
35     makeStringRight(str);
36     if(isPalindrome(str)){
37         cout << "string is palindrome.\n";
38     }else{
39         cout << "string is not palindrome.\n";
40     }
41     return 0;
42 }

```

input

```

Mr. Owl ate my metal worm
string is palindrome.

...Program finished with exit code 0
Press ENTER to exit console.

```

2)

```

#include <bits/stdc++.h>
using namespace std;

bool isPrime(int n){
    if(n == 0 || n == 1) return false;

    bool ans = true;
    for(int i = 2; i < n; i++){
        if(n % i == 0){
            ans = false;
            break;
        }
    }
    return ans;
}

int main()
{
    int count;
    cin >> count;

    int num = 0;
    while(count > 0){
        if(isPrime(num)){
            cout << num << " ";

```

```

        count--;
    }
    num++;
}
return 0;
}

```

```

2 using namespace std;
3
4 bool isPrime(int n){
5     if(n == 0 || n == 1) return false;
6
7     bool ans = true;
8     for(int i = 2; i < n; i++){
9         if(n % i == 0){
10             ans = false;
11             break;
12         }
13     }
14     return ans;
15 }
16
17 int main()
18 {
19     int count;
20     cin >> count;
21
22     int num = 0;
23     while(count > 0){
24         if(isPrime(num)){
25             cout << num << " ";
26             count--;
27         }
28         num++;
29     }
30     return 0;
31 }

```

input

```

50
2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97 101 103 107 109 113 127 131 137 139 149 151 157 163 167 173 179
181 191 193 197 199 211 223 227 229
...Program finished with exit code 0
Press ENTER to exit console.

```

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3)

```

#include <bits/stdc++.h>
using namespace std;

int main()
{
    int n;
    cin >> n;

    int n1 = 1;
    int n2 = 1;
    cout << 0 << " ";
    for(int i = 1; n1 <= n; i++){
        if(n1 % 3 == 0 && n1 % 5 == 0){
            cout << "fizzbuzz ";
        }else if(n1 % 3 == 0){
            cout << "fizz ";
        }else if(n1 % 5 == 0){
            cout << "buzz ";
        }else{

```

```

        cout << n1 << " ";
    }

    int temp = n2;
    n2 = n1 + n2;
    n1 = temp;
}

return 0;
}

```

The screenshot shows the OnlineGDB online C++ compiler interface. The left sidebar contains navigation links: IDE, My Projects, Classroom (new), Learn Programming, Programming Questions, Jobs (new), Sign Up, and Login. The main editor area displays a C++ program for calculating the Fibonacci sequence up to 5000. The code includes headers, uses the std namespace, and implements a loop with conditional checks for 'fizz' and 'buzz' based on divisibility by 3 and 5. The output console at the bottom shows the sequence of numbers and the program's successful completion with exit code 0.

```

1 #include <bits/stdc++.h>
2 using namespace std;
3
4 int main()
5 {
6     int n;
7     cin >> n;
8
9     int n1 = 1;
10    int n2 = 1;
11    cout << 0 << " ";
12    for(int i = 1; n1 <= n; i++){
13        if(n1 % 3 == 0 && n1 % 5 == 0){
14            cout << "fizzbuzz ";
15        }else if(n1 % 3 == 0){
16            cout << "fizz ";
17        }else if(n1 % 5 == 0){
18            cout << "buzz ";
19        }else{
20            cout << n1 << " ";
21        }
22    }
23    int temp = n2;

```

Input: 5000

Output: 0 1 1 2 fizz buzz 8 13 fizz 34 buzz 89 fizz 233 377 buzz fizz 1597 2584 4181

...Program finished with exit code 0
Press ENTER to exit console.