☑ 1. Capital, Small or Other Character

🔧 **Bug**: Used `||` instead of `&&`. Also, conditions should be ordered correctly.

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

int main() {
    char c;
    cin >> c;
    if ('A' <= c && c <= 'Z') {
        cout << 1;
    } else if ('a' <= c && c <= 'z') {
        cout << 0;
    } else {
        cout << -1;
    }
    return 0;
}
```

☑ Output (Sample):

```
Input: G → Output: 1
Input: m → Output: 0
Input: 8 → Output: -1
```

☑ 2. Number Pattern

```cpp
/*
Pattern for n = 5:
1
23
345
4567
*/
#include<iostream>
using namespace std;

int main(){
    int n;
    cin >> n;
    int i = 1;
    while(i <= n){
        int j = i, count = 1;
        while(count <= i){
            cout << j;
```

```
            j = j + 1;
            count = count + 1;
        }
        cout << "\n";
        i = i + 1;
    }
    return 0;
}
```

☑ 3. Pyramid Star Pattern

```cpp
/*
Pattern for n = 4:
    *
   ***
  *****
 *******
*/
#include<iostream>
using namespace std;

int main(){
    int n;
    cin >> n;
    int i = 1;
    while(i <= n){
        int spaces = n - i;
        int stars = 2*i - 1;

        for(int k = 1; k <= spaces; k++)
            cout << " ";
        for(int m = 1; m <= stars; m++)
            cout << "*";
        cout << "\n";
        i++;
    }
    return 0;
}
```

☑ 4. Repeating Digits Pattern

```
/*
Pattern for n = 5:
1
22
333
4444
```

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

int main(){
    int n;
    cin >> n;
    for(int i = 1; i <= n; i++){
        for(int j = 1; j <= i; j++){
            cout << i;
        }
        cout << endl;
    }
    return 0;
}
```

☑ 5. Reverse Number Triangle

```cpp
/*
Pattern for n = 4:
1
21
321
4321
*/
#include<iostream>
using namespace std;

int main(){
    int n;
    cin >> n;
    for(int i = 1; i <= n; i++){
        int p = i;
        for(int j = 1; j <= i; j++){
            cout << p;
            p--;
        }
        cout << endl;
    }
    return 0;
}
```

☑ 6. Alphabet Pyramid

```cpp
/*
Pattern for n = 5:
E
```

```
DE
CDE
BCDE
ABCDE
*/
#include<iostream>
using namespace std;

int main(){
    int n;
    cin >> n;
    for(int i = 1; i <= n; i++){
        char p = 'A' + n - i;
        for(int j = 1; j <= i; j++){
            cout << p;
            p++;
        }
        cout << endl;
    }
    return 0;
}
```

☑ 7. Number Diamond

```
/*
Pattern for n = 4:
   1
  232
 34543
4567654
*/
#include<iostream>
using namespace std;

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

    for(int i = 1; i <= n; i++){
        int spaces = n - i;
        for(int j = 1; j <= spaces; j++)
            cout << " ";

        int val = i;
        for(int j = 1; j <= i; j++)
            cout << val++;

        val -= 2;
        for(int j = 1; j < i; j++)
            cout << val--;
```

```
            cout << endl;
        }
        return 0;
}
```

☑ 8. Diamond Star Pattern

```cpp
/*
Pattern for n = 5:
  *
 ***
*****
 ***
  *
*/
#include<iostream>
using namespace std;

void printPatt(int n){
    int i = 1;
    while(i <= n){
        int stars = (i <= n/2) ? (2*i - 1) : (2*(n - i) + 1);
        int spaces = (n - stars) / 2;

        for(int k = 1; k <= spaces; k++)
            cout << " ";
        for(int j = 1; j <= stars; j++)
            cout << "*";
        for(int k = 1; k <= spaces; k++)
            cout << " ";
        cout << "\n";
        i++;
    }
}

int main(){
    int n;
    cin >> n;
    if(n % 2 == 0) n++;   // Ensure odd for symmetry
    printPatt(n);
    return 0;
}
```