## Instructions:

★ In this level you will need 3 simple c++ codes. Know what they do and they will help you cross this level.

★ P.S. : g++ -o program program.cpp

**1.**

```cpp
int main()
{
    int i, j, N;
    N=4;
    for(i=1; i<=N; i++)
    {
        for(j=2; j<=i*2; j+=2)
            cout<<j;
        for(j=(i-1)*2; j>=2; j-=2)
            cout<<j;
        cout<<endl;
    }
    cout<<"Key : 8 3 5 3 8 4 2 ";
    return 0;
}
```

**2.**

```cpp
int main()
{
    int i, j, value, N;
    N=5;
    for(i=1; i<=N; i++)
    {
        value = i + 1;
        for(j=3; j<=i; j++)
        {
            cout<<value;
            value++;
        }
        for(j=(i*2)-1; j>=i; j--)
            cout<<j;

        cout<<endl;
    }
    cout<<"Key : 6 2 1 9 4 2 6 5";
    return 0;
}
```

**3.**

```cpp
int main()
{
    int i, j, N, colCount, value;
    colCount = 1;
    value = 1;
    N=5;
    for(i=1; i<=N; i++)
    {
        for(j=1; j<=colCount; j++)
        {
            if(value == 10)
                value = 1;
            cout<<value;
            value++;
        }
        cout<<endl;
        colCount *= 2;
    }
    cout<< endl<<endl<<"Figure out the key looking at previous examples to
            unlock the next level.";
    return 0;
}
```