



문자열을 입력하고 Flag를 체크할 수 있는 버튼이 하나 존재한다.

```
chall.xlsm - Module1 (코드)
(일반) (선언)

Sub CheckFlag()
    Dim guess As String
    guess = ActiveSheet.Shapes("TextBox 1").TextFrame2.TextRange.Text

    If Len(guess) < 7 Then
        MsgBox "Incorrect"
        Exit Sub
    End If

    If Left(guess, 6) <> "tjctf{" Or Right(guess, 1) <> "}" Then
        MsgBox "Flag must start with tjctf{ and end with }"
        Exit Sub
    End If

    Dim inner As String
    inner = Mid(guess, 7, Len(guess) - 7)

    Dim expectedCodes As Variant
    expectedCodes = Array(98, 117, 116, 95, 99, 52, 110, 95, 49, 116, 95, 114, 117, 110, 95, 100, 48, 48, 109)
    Dim i As Long
    If Len(inner) <> (UBound(expectedCodes) - LBound(expectedCodes) + 1) Then
        MsgBox "Incorrect"
        Exit Sub
    End If
    For i = 1 To Len(inner)
        If Asc(Mid(inner, i, 1)) <> expectedCodes(i - 1) Then
            MsgBox "Incorrect"
            Exit Sub
        End If
    Next i
    MsgBox "Flag correct!"
End Sub

Function check(str, arr, idx1, idx2) As Boolean
    If Mid(str, idx1, 1) = Chr(arr(idx2)) Then
        check = True
    Else
        check = False
    End If
End Function
```

Module1의 매크로를 보면 FLAG로 추측될만한 코드가 보인다.

```

Dim expectedCodes As Variant
expectedCodes = Array(98, 117, 116, 95, 99, 52, 110, 95, 49, 116, 95, 114, 117, 110, 95, 100, 48, 48, 109)
Dim i As Long
If Len(inner) <> (UBound(expectedCodes) - LBound(expectedCodes) + 1) Then
    MsgBox "Incorrect"
    Exit Sub
End If
For i = 1 To Len(inner)
    If Asc(Mid(inner, i, 1)) <> expectedCodes(i - 1) Then
        MsgBox "Incorrect"
        Exit Sub
    End If
Next i
MsgBox "Flag correct!"
End Sub

```

expectedCodes 배열에 있는 값과 사용자가 입력한 값을 하나씩 비교하며 플래그를 체크한다.

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98, 117, 116, 95, 99, 52, 110, 95, 49, 116, 95, 114, 117, 110, 95, 100, 48, 48, 109|
```

ABC 83 1

Tr Raw By

Output



but_c4n_1t_run_d00m

Cyberchef로 복호화하면 FLAG가 출력된다.