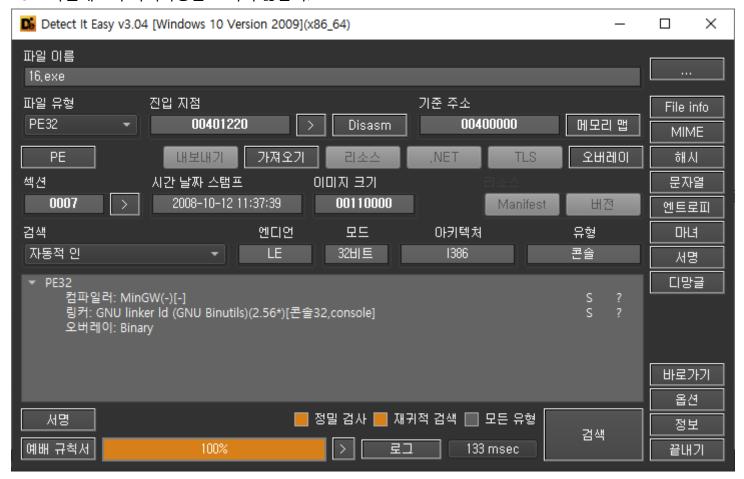
## codeengn-basic-L16 풀이

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문제는 Name이 CodeEngn일 때, Serial을 원한다.

Die로 확인해보니 특이사항은 보이지 않는다.



## 디버거로 열어본다.

```
3B45 C4
                                                            cmp eax,dword ptr ss:[ebp-3C]
                        -0F85 94000000
C70424 F5FFFFF
                                                            mov dword ptr ss:[esp],FFFFFFF5
call <JMP.&GetStdHandle>
                        E8 8CF60000
                                                            sub esp,4
mov dword ptr ss:[esp+4],A
mov dword ptr ss:[esp],eax
call <a href="mailto:swb.48">swb.48</a>esp,8
sub esp,8
 ● 004015B4
                        83FC 04
 004015B7
                        C74424 04 0A000000
                                                                                                                                                 [esp+4]:"90", A:'\n'
 ● 004015BF
                        890424
 004015C2
                        E8 89F60000
                        83EC 08
C74424 04 A8B14300
C70424 C0334400
                                                            mov dword ptr ss: [esp+4],<16.sub_4381A8>
mov dword ptr ss: [esp+4],16.4433C0

call <16.sub_42A33C0

mov dword ptr ss: [esp+4],16.4400D9

mov dword ptr ss: [esp+4],16.4433C0
                                                                                                                                                [esp+4]:"90", 43B1A8:L"롕\n"
4433C0:&"舒B"
 004015CA
004015D2
                        E8 528D0200
C74424 04 D9004400
C70424 C0334400
 004015D9
                                                                                                                                                [esp+4]:"90", 4400D9:" Good Job!\n"
4433C0:&"舒B"
 ● 004015DF
                        E8 E6AD0300
C74424 04 E5004400
C70424 C0334400
                                                            call <16.sub_43C3D8>
mov dword ptr ss:[esp+4],16.4400E5
mov dword ptr ss:[esp],16.4433C0
 ● 004015ED
 004015F2
                                                                                                                                                [esp+4]:"90", 4400E5:" =)"
4433C0:&"舒B"
 ● 004015FA
 00401601
                        E8 D2AD0300
                        C70424 E9004400
                                                             mov_dword ptr ss:[esp],16.4400E9
                                                                                                                                                 4400E9:"pause > null"
                                                            call <JMP.&system>
mov dword ptr ss:[esp],16.4400F6
                        E8 BEF30000
C70424 F6004400
 0040160D
 00401612
                                                                                                                                                4400F6: "del null"
                                                            call <JMP.&system>
lea eax,dword ptr ss:[ebp-38]
mov dword ptr ss:[ebp-70],FFFFFFFF
call <16.sub_42EE80>
mov dword ptr ss:[ebp-78],0
    00401619
                        E8 B2F30000
                        8D45 C8
890424
 0040161F
                                                                                                                                                [ebp-38]: "CodeEngn"
                        C745 90 FFFFFFF
E8 50D80200
 00401624
 0040162B
                        C745 88 00000000
    00401630
                                                            jmp 16.401726
mov dword ptr ss:[esp],FFFFFFF5
mov dword ptr ss:[esp],FFFFFFF5
call sJMP.&GetStdHandle>
sub esp,4
                        E9 EA000000
 00401637
▶ 0040163C
                       C70424 F5FFFFF
 00401643
                        C745 90 01000000
 0040164A
                        E8 F1F50000
 ● 0040164F
                        83EC 04
C74424 04 0C000000
                                                            mov dword ptr ss:[esp+4],C
                                                                                                                                                [esp+4]:"90". C:'\f'
 00401652
```

```
16.004015A2

mov dword ptr ss: [esp],FFFFFFF5
mov dword ptr ss: [esp],FFFFFFF5
mov dword ptr ss: [esp], [c] [esp+4]:"90", C:'\f'
mov dword ptr ss: [esp], [c] [esp+4]:"90", C:'\f'
mov dword ptr ss: [esp], [a, 44320] [esp+4]:"90", 4381A8:L"型\n"
mov dword ptr ss: [esp], [a, 44330] [esp+4]:"90", 4400FF:" Wrong password!\n"
mov dword ptr ss: [esp], [a, 44330] [esp+4]:"90", 4400FF:" Wrong password!\n"
mov dword ptr ss: [esp], [a, 44330] [esp+4]:"90", 4400FF:" Wrong password!\n"
mov dword ptr ss: [esp], [a, 44330] [esp+4]:"90", 4400FF:" wrong password!\n"
mov dword ptr ss: [esp], [a, 44330] [esp+4]:"90", 4400FF:" wrong password!\n"
mov dword ptr ss: [esp], [a, 44330] [esp+4]:"90", 4400FF:" wrong password!\n"
mov dword ptr ss: [esp], [a, 44330] [esp+4]:"90", 4400FF:" wrong password!\n"
mov dword ptr ss: [esp], [a, 44330] [esp+4]:"90", 4400FF:" wrong password!\n"
mov dword ptr ss: [esp], [a, 44330] [esp+4]:"90", 4400FF:" wrong password!\n"
mov dword ptr ss: [esp], [a, 44330] [esp+4]:"90", 4400FF:" wrong password!\n"
mov dword ptr ss: [esp], [a, 44330] [esp+4]:"90", 4400FF:" wrong password!\n"
mov dword ptr ss: [esp], [a, 44330] [esp+4]:"90", 4400FF:" wrong password!\n"
mov dword ptr ss: [esp], [a, 44330] [esp+4]:"90", 4400FF:" =)"
mov dword ptr ss: [esp], [a, 44300] [esp+4]:"90", 4400FF:" =)"
mov dword ptr ss: [esp], [a, 4400FF:" all [esp+4]:"90", 4400FF:" =)"
mov dword ptr ss: [esp], [a, 4400FF:" all [esp+4]:"90", 4400FF:" =)"
mov dword ptr ss: [esp], [a, 4400FF:" all [esp+4]:"90", 4400FF:" =)"
mov dword ptr ss: [esp], [a, 4400FF:" all [esp+4]:"90", 4400FF:" =)"
mov dword ptr ss: [esp], [a, 4400FF:" all [esp+4]:"90", 4400FF:" =)"
mov dword ptr ss: [esp], [a, 4400FF:" all [esp+4]:"90", 4400FF:" =)"
mov dword ptr ss: [esp], [a, 4400FF:" all [esp+4]:"90", 4400FF:" =)"
mov dword ptr ss: [esp], [a, 4400FF:" all [esp+4]:"90", 4400FF:" =)"
mov dword ptr ss: [esp], [a, 4400FF:" all [esp+4]:"90", 4400FF:" =)"
mov dword ptr ss: [esp], [a, 4400FF:" all [esp+4]:"90", 4400FF:" all [esp+4]:"90", 4400FF:" all [esp+4]:"90", 4400FF:" =
```

문자열 찾기와 그래프로 보기를 사용해 성공으로 가는 구문과 실패로 가는 구문을 찾았다. jne 구문이 이루어지기 전 비교연산을 찾아보겠다.

```
cmp eax, dword ptr ss:[ebp-0x3C]
```

eax와 ebp-0x3C에 있는 값을 비교하여 같다면 점프를 하지 않기 때문에 성공으로 가려면 같아야 한다는 것을 알 수 있다.



eax=3039 dword ptr ss:[ebp-3C]=[0070FEEC]=E4C60D97

eax에는 내가 입력한 password의 값 12345를 16진수로 변환한 0x3039가 들어있고 ebp-0x3C에는 0xE4C60D97이 들어있다.

시리얼에 이 값을 10진수로 바꾸어 입력해주면..



정답인것 같다. 페이지에 정답 인증을 해준다.

시리얼에 문자열을 넣으면 특정 구문을 통해 eax에 이상한 값이 들어가게 된다. serial에는 디버깅하기 편하게 숫자를 먼저 넣어보는것으로 하자.