Linux_asm_jenya writeup

```
#We use radare2 for finding the password
r2 -A ./main
#there is only a enter password string which we check using iz
#we disass entry0
afl
pdf @ entry0
[0x00401000]> pdf @ entry0
;-- section..text:
;-- segment.LOAD1:
;-- rip:
r 161: entry0 ();
       0x00401000
                      48be322040.. movabs rsi,
str.Enter_password:_Correct_nWrong_n; 0x402032; "Enter password:
Correct\nWrong\n"; [01] -r-x section size 212 named .text
       0x0040100a
                     bb10000000
                                    mov ebx, 0x10
                                                         ; 16
       0x0040100f
                     e8b0000000
                                    call fcn.004010c4
       0x00401014
                     b800000000
                                    mov eax, 0
       0x00401019
                     bf00000000
                                    mov edi, 0
       0x0040101e
                     48be002040.. movabs rsi, segment.LOAD2 ; 0x402000
       0x00401028
                      ba32000000
                                    mov edx, 0x32
                                                          ; '2'; 50
       0x0040102d
                      0f05
                                syscall
       0x0040102f
                     e836000000
                                    call 0x40106a
       0x00401034
                      e868000000
                                   call fcn.004010a1
```

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```
48be422040.. movabs rsi, 0x402042
      0x00401039
                                                        ; 'B @';
"Correct\nWrong\n"
      0x00401043
                    0000080dd
                                 mov ebx, 8
                               jmp 0x401059
    __< 0x00401048
                      eb0f
    ; CODE XREF from entry0 @ 0x401096(x)
    ; CODE XREF from fcn.004010a1 @ 0x4010c1(x)
                      48be4a2040.. movabs rsi, 0x40204a
    ----> 0x0040104a
                                                           ; 'J @' ;
"Wrona\n"
       0x00401054
                     bb06000000
                                   mov ebx, 6
    ; CODE XREF from entry 0 \times 401048(x)
    └ └─> 0x00401059
                       e866000000
                                    call fcn.004010c4
     0x0040105e
                     b83c000000
                                  mov eax, 0x3c
                                                      ; '<' ; 60
       0x00401063
                     bf00000000
                                  mov edi, 0
       0x00401068
                     0f05
                              syscall
       ; CALL XREF from entry0 @ 0x40102f(x)
       0x0040106a
                     48bf002040.. movabs rdi, segment.LOAD2 ;
0x402000
       ; CODE XREF from entry0 @ 0x40107c(x)
                       803f0a
    cmp byte [rdi], 0xa
                      7405
                                 je 0x40107e
       -< 0x00401077
         0x00401079
                       48ffc7
                                inc rdi
    ebf6
                                 jmp 0x401074
        ; CODE XREF from entry0 @ 0x401077(x)
       -> 0x0040107e
                       48ffcf
                                 dec rdi
       0x00401081
                    48be002040.. movabs rsi, segment.LOAD2;
0x402000
       ; CODE XREF from entry0 @ 0x40109e(x)
    -> 0x0040108b
                       4839f7
                                  cmp rdi, rsi
                      7e10
                                ile 0x4010a0
       -< 0x0040108e
      0x00401090
                       8a07
                                mov al, byte [rdi]
         0x00401092
                       8a26
                                 mov ah, byte [rsi]
         0x00401094
                       38e0
                                 cmp al, ah
```

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```
-< 0x00401096
                  75b2
                            jne 0x40104a
  0x00401098
                48ffcf
                          dec rdi
  0x0040109b
                48ffc6
                           inc rsi
└─< 0x0040109e
                 ebeb
                           jmp 0x40108b
 ; CODE XREF from entry0 @ 0x40108e(x)
 -> 0x004010a0
                  сЗ
                           ret
```

The code compares our input if it is a palindrome or not .

If it is a palindrome like test ,101,racecar the program prints correct if it dosen't it prints wrong

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