B”h

Write up 5.2

Objective:

To get the code to get only the right password.

Topics Covered:

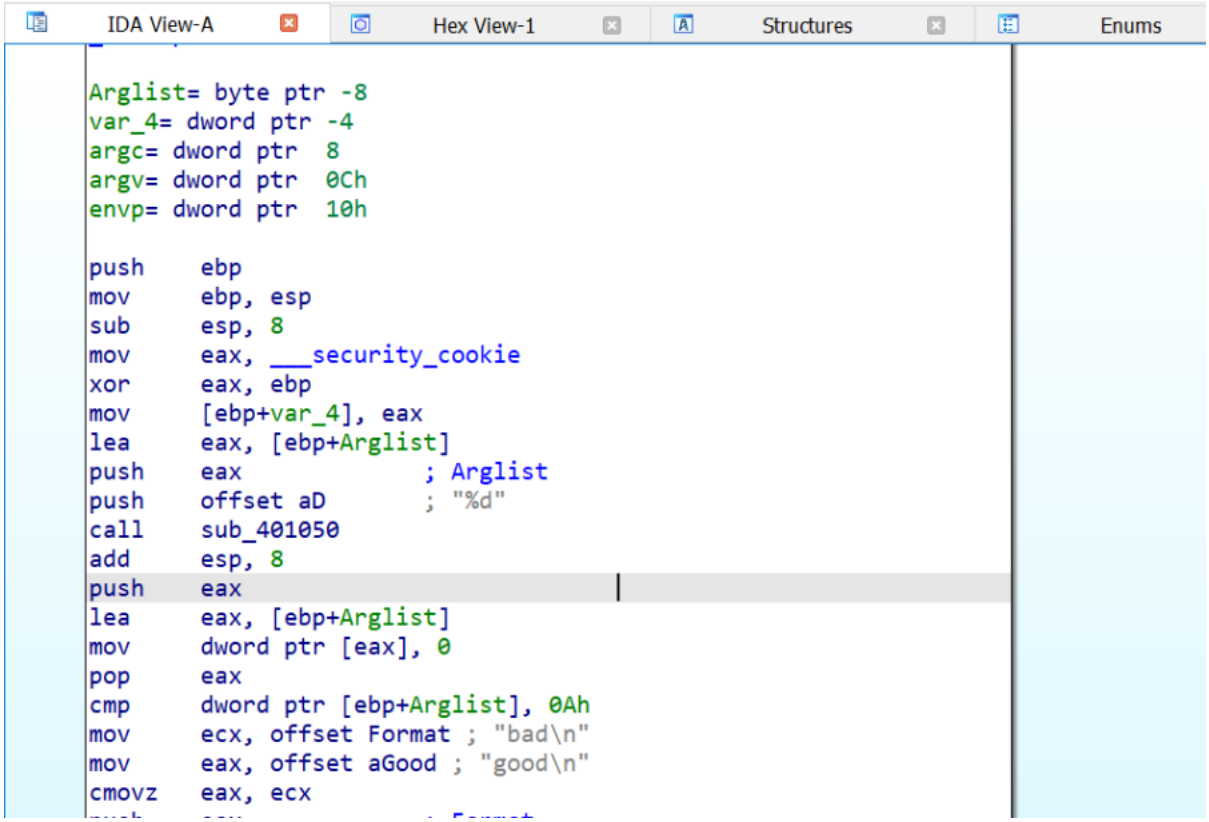
1. ida64

2. patching

3. chatgpt

Procedure:

Here is my idea on how to solve this challenge :D. Let’s perform static analysis on the binary file by using ida64 in windows machine (my favourite debugging tools).



After glance through the assembly code, it looks like there is a stream (scanf) function that receive an integer from the user. After that its seems like we are compering the input we got with Ah(10) and then printing good/bad according to the compression. The problem was that compression got done with cmovle. So I checked in msdn a commend that will fit.

Description

- mov if Zero Flag (ZF) is not set

```
cmovnz dest, source
   IF ZF == 0:DEST = SOURCE
```

So I replaced cmovle with cmovnz.

I checked it out but the code still wasn't working.

I quickly found out the problematic part. I skipped on this:

The problem was that eax was getting a 0 instead of the input. So I remade this line as {mov edx, 0} and the problem solved.

That's all for the write up, I hope you guys did enjoy my first ever write up on reverse engineering challenge. Cheers! I'm also hope that i can continue to publish some write up for the interesting challenges in the future.