I first searched for strings and found “you achieved Level 6”, I then clicked on the function to take me there.

I then found the “check\_password” function ( FUN\_00400ae8) and clicked on that to take me to where I can hopefully find the memcmp.

A screenshot of a computer program

Description automatically generated

Next I found the memcmp which is FUN\_0040f780 at line 00400ccc and the encrypt\_decrypt which is the function above that (FUN\_004007e8)

I also changed the signal and raise to be labeled correctly as well as the CheckForDebugger and the IsThereADebugger

A screen shot of a computer program

Description automatically generated

I then copied the information highlighted above and pasted it into notepad because I know I will need it for a call except I am going to switch the fake flag to the stack pointer where I can then step through and examine the string and find the flag. I did control + shift +G to find the location of local\_38 and found the memory address that I needed to edit in my call

A screenshot of a computer

Description automatically generated

I then ran gdb with a fake argument

A computer screen with white text

Description automatically generated

A computer screen with text and numbers

Description automatically generated

I then found a place after the flag was passed into the stack so I chose to make a breakpoint at 0x400c68 and then continued and then ran the new line I had formed above and then examined the string at stack pointer 0x58

A screenshot of a computer code

Description automatically generated

Here is my congrats message:

A screen shot of a computer

Description automatically generated