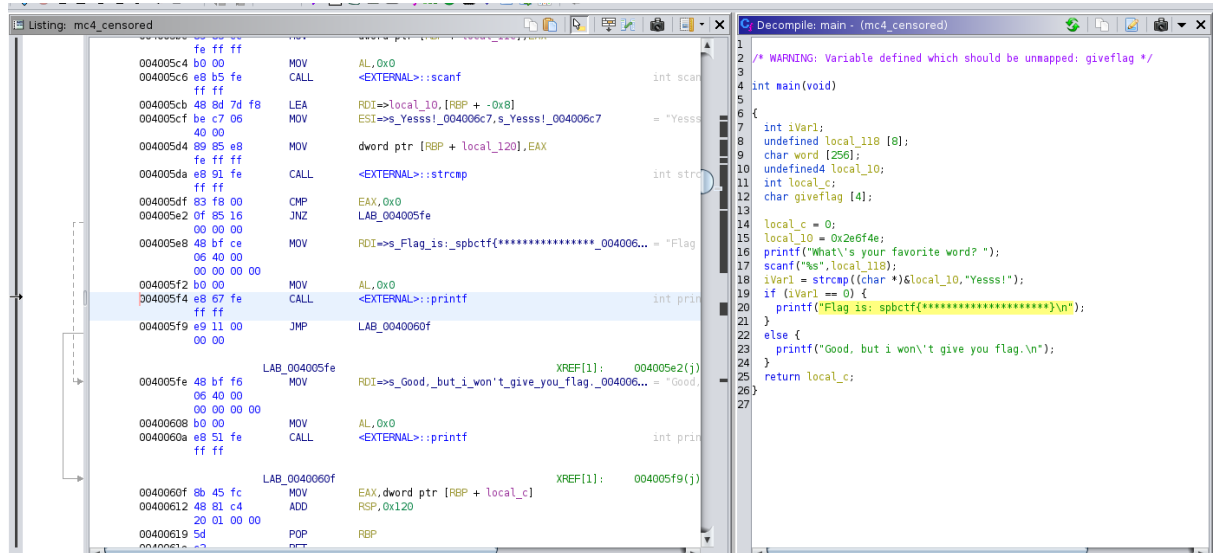


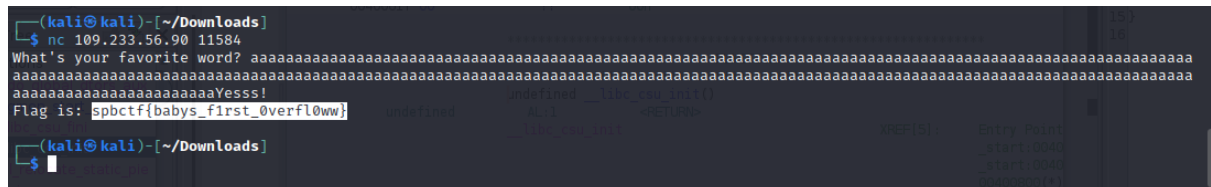


The main function looks like this:



As you can see, the iVar1 variable contains the value obtained by comparing the char\* and "Yesss!" strings. If these strings match (0 is returned), we will get a flag. If not, then the conclusion is negative.

As we type, our codeword is written to an array local\_118 8 elements long and compared by that value. By trial and error, I managed to find the value at which the program crashes and the buffer is overflowing: 264 characters. Add the check word "Yesss!" to the end of the line and get the following:



Flag: spbctf{babys\_f1rst\_0verfl0ww}

Lab work is done.

### Self-Assessment Questions:

- List the tools (programs and utilities) that you used to solve this lab:

Ghidra, netcat

- List the vulnerabilities you've discovered:

Buffer Overflow

- Give advice on how to improve security: Add a check to scanf for the number of characters to be entered.