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27 March 2020
CSCE 451-501
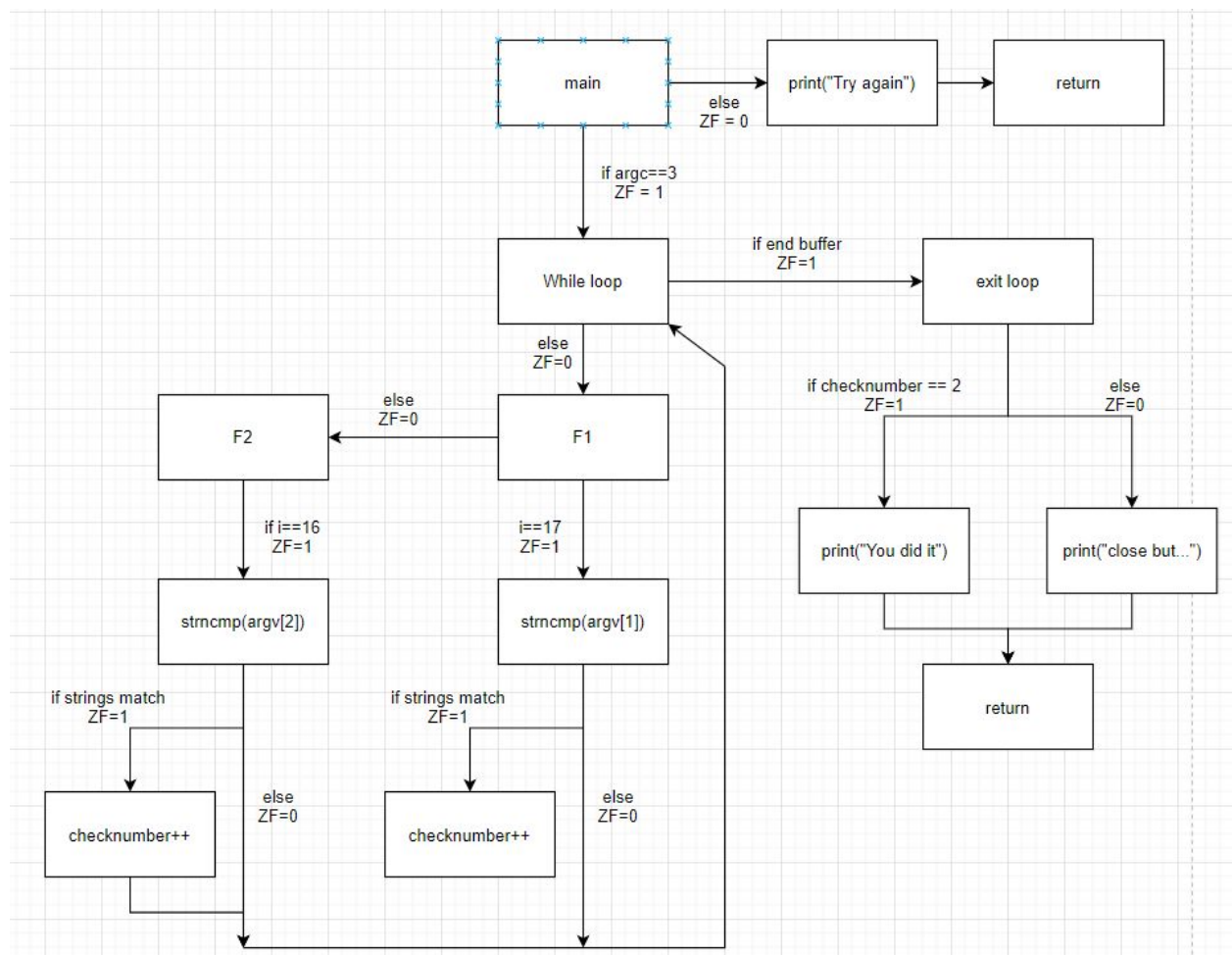
Level 1
Goal: Print "You did it!"
Steps:
1. Load into ghidra
2. Find where "you did it" prints
3. Figure out what conditions need to be met for that to happen
4. Figure out what f1 and f2 are doing
5. Look in strings file since that is the one opened
6. Figure out which 2 strings are being tested for and what order

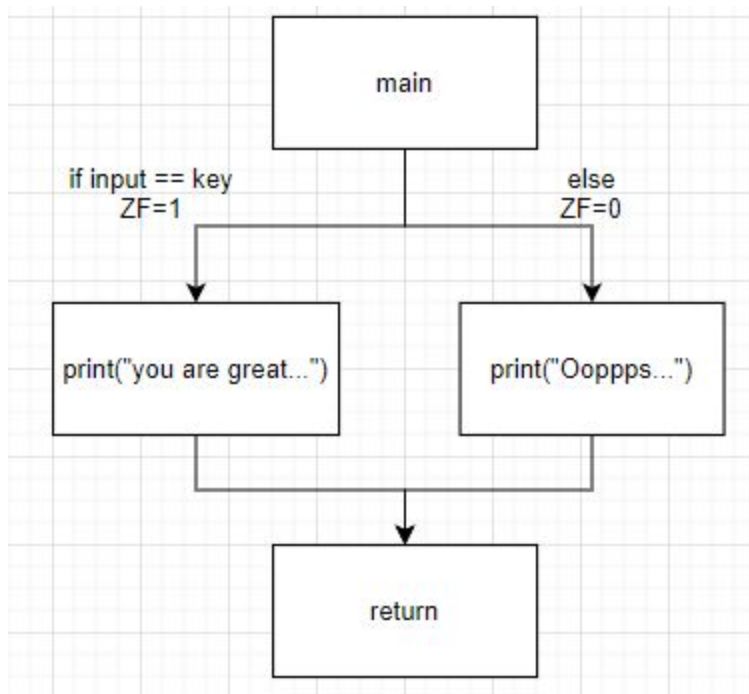CFD

Answer:
arg1 = deregister_tm_clones
arg2=__JRC_LIST__

Level 2

Goal: Print "You are great at this"

Steps:

1. Load into ghidra
2. Find wanted print
3. What conditions are needed?
4. Recognize that it is comparing the given password to what is puts to the screen
5. Only the first 8 bytes matter
6. Convert hex to text of first 8 bytes of variable given to strtok

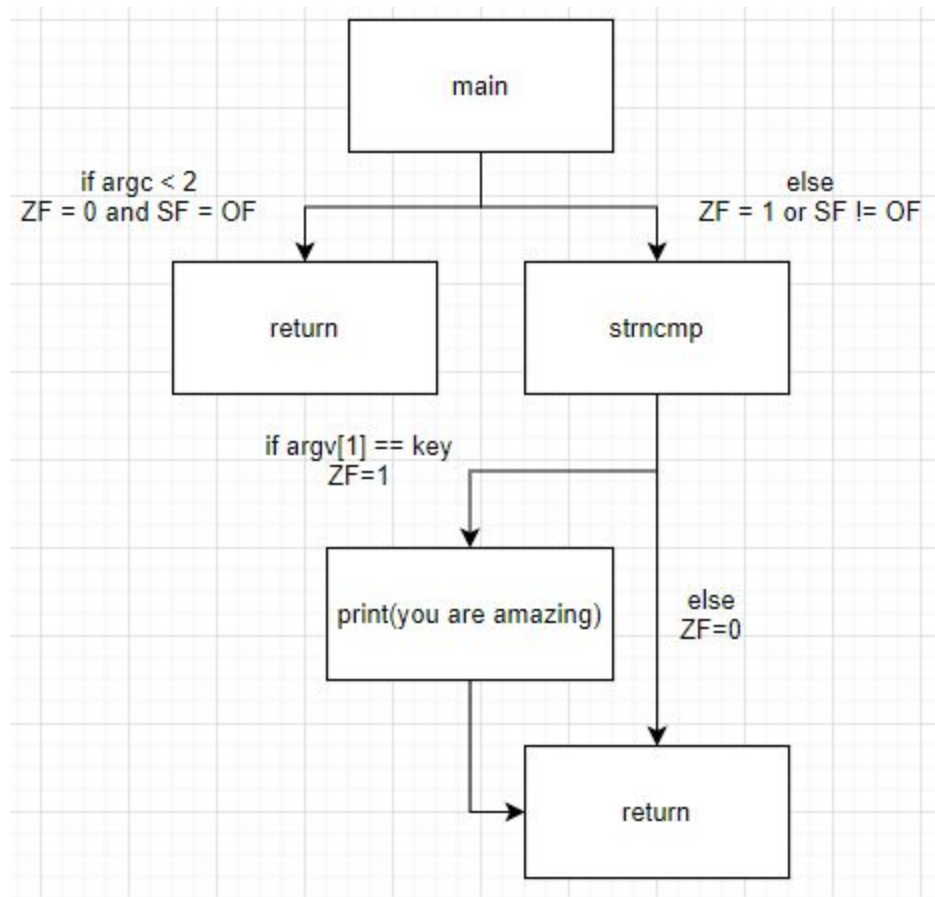CFD

Asnwer:

Password is: yagababa

Level 3

Goal: Print "You are amazing!!"

Steps:

1. Load into ghidra
2. Find where main prints "You are…"
3. Notice that is requires a strncmp
4. It is comparing to a hardcoded string
5. This is represented in hex
6. Convert the hex to text in correct order b/c little endian
7. Notice that it takes the a size of 8 bytes
8. Find what 4 bytes after the compared variable are
9. Combine the contents of both variables to achieve answer

CFD

Answer:

A553Mb1Y