If else

Monday, 23 March 2020   8:29 AM

Compare value at memory rbp - 4 with the value 4
Jumpp if greater to (main+96) if rbp - 4 is 5 or more(that number is more than 5)

```
0x400653 <main+76>          cmp     DWORD PTR [rbp-0x4], 0x4
0x400657 <main+80>          jg      0x400667 <main+96>
0x400659 <main+82>          lea     rdi, [rip+0xef]       # 0x40074f
0x400660 <main+89>          call    0x4004e0 <puts@plt>
0x400665 <main+94>          jmp     0x400673 <main+108>
0x400667 <main+96>          lea     rdi, [rip+0xfe]       # 0x40076c
```

```
16      if (number < 5)
17      {
18          puts("\nThat number is less than 5!");
19      }
20
21      else
```

```
gef➤  x/s 0x40074f
0x40074f:       "\nThat number is less than 5!"
gef➤  x/s 0x40076c
0x40076c:       "\nThat number is more than 5!"
gef➤  |
```

If value is more than 9 but fgets number of read is still 2(1 value and 1 null terminator), it still shows up as 1.

```
gef➤  x/4gx $rbp -16
0x7ffffffffe410: 0x00007ffffffffe500      0x0000000100310000
0x7ffffffffe420: 0x0000000000400690      0x00007ffff7a05b97
gef➤  |
```

```
tao@unixuser-vm:~/cprog/chap12$ ./ex1
I am your computer genie!
Enter a number from 0 to 9: 10

That number is less than 5!
The genie knows all, sees all!
tao@unixuser-vm:~/cprog/chap12$
```