Initial count value = 5

```
→ 0x4004ef <main+8> mov DWORD PTR [rbp-0x4], 0x5
```

Compare current count value to 0 and if it is greater than 0 do something]

```
→ 0x400512 <main+43> cmp DWORD PTR [rbp-0x4], 0x0
0x400516 <main+47> jg 0x4004f8 <main+17>
```

Rdi – 1st argument – message and format specifier

Rsi/esi – 2nd argument – count variable or current count value

```
0x4004f8 <main+17> mov eax, DWORD PTR [rbp-0x4]

→ 0x4004fb <main+20> mov esi, eax

0x4004fd <main+22> lea rdi, [rip+0xa0] # 0x4005a4

0x400504 <main+29> mov eax, 0x0

0x400509 <main+34> call 0x4003f0 <printf@plt>
```

Decrement current count value by 1 and compare if it is 0

```
→ 0x40050e <main+39> sub DWORD PTR [rbp-0x4], 0x1
0x400512 <main+43> cmp DWORD PTR [rbp-0x4], 0x0
0x400516 <main+47> jg 0x4004f8 <main+17>
```

If count is 0, and comparison is done then zero flag is set

```
gef> x/wx $rbp-4
0x7ffffffffe41c: 0x00000000
gef> print $eflags
$5 = [ PF ZF IF ]
gef>
```

```
0x400512 <main+43> cmp DWORD PTR [rbp-0x4], 0x0

→ 0x400516 <main+47> jg 0x4004f8 <main+17> NOT taken [Reason: !(!Z && S==0)]
```