Thursday, December 1, 2022 7:34 PM

## Isabel Sutedjo

I pledge my honor that I have abided by the Stevens Honor System.

## Input '582' gets stored in X0

```
ubuntu@primary:~/shared/382/lab11$ qemu-aarch64 -L /usr/aarch64-linux-gnu/ -g 12
34 a.out
582
```

```
x0
                 0x246
                                       582
                                                                                              0x410104
                                                                                                                    4260100
 x2
                                                                              х3
                                                                                              0x0
 x4
                 0x0
                                       0
                                                                              x5
                                                                                              0x0
                                       0
                                                                              x7
                                                                                                                    0
 хб
                 0x0
                                                                                              0x0
 x8
                 0x3f
                                                                              x9
                                                                                              0x0
                                                                                                                    0
                                       63
                                                                                                                    0
 x10
                 0x0
                                       0
                                                                              x11
                                                                                              0x0
 x12
                 0x0
                                       0
                                                                                              0x0
                                                                                                                    0
 x14
                 0x0
 x16
                 0x0
                                                                              x17
                                                                                              0x0
                                                                                                                    0
                 SVC
                                     read
        27
                                   branch to loop
        28
        29
             exit: //exit label
                         X0, X20 // set to final call
                  //regular exit calls
        33
                          X0, 0 //status =
                                   /system call to exit is #93
        34
                          0 //calls the system to exit
                 SVC
        35
remote Thread 1.2646 In: exit
                                                                                                                                       L33
read () at labv2.s:27
                        <read+0>: 01 00 00 d4
                                                             #0x0
                                                     svc
loop () at labv2.s:7
=> 0x00000000004000b0 <loop+0>: 2f 00 40 f9
=> 0x00000000004000b4 <loop+4>: ff 29 00 f1
                                                     ldr
                                                             x15, [x1]
                                                     cmp
                                                             x15, #0xa
=> 0x000000000004000b8 <loop+8>: 4c 00 00 54
                                                     b.gt
=> 0x000000000004000bc <loop+12>:
                                            0e 00 00 14
exit () at labv2.s:31
=> 0x000000000004000f4 <exit+0>: e0 03 14 aa
                                                             x0, x20
                                                     mov
                                                             x0, #0x0
        000000004000f8 <exit+4>: 00 00 80 d2
                                                                                                 // #0
(gdb)
```

## Program runs without errors

```
ubuntu@primary:~/shared/382/lab11$ qemu-aarch64 a.out
3
ubuntu@primary:~/shared/382/lab11$
```