P3:

If you only have a write sys call you get a segmentation fault. You get this because you never exit and you keep reading and then you end up in memory you arent supposed to be in.

```
ostap@ostap-900X5L:~/Documents/os/hw7

ostap@ostap-900X5L:~/Documents/os/hw7$ strace ./p2

execve("./p2", ["./p2"], [/* 61 vars */]) = 0

write(1, "Hello World\n", 12Hello World
) = 12

--- SIGSEGV {si_signo=SIGSEGV, si_code=SI_KERNEL, si_addr=0} ---
+++ killed by SIGSEGV (core dumped) +++
Segmentation fault (core dumped)
ostap@ostap-900X5L:~/Documents/os/hw7$

■
```

## P3 Cont.

```
ostap@ostap-900X5L:~/Documents/os/hw7$ as -o p2.o p2.s ostap@ostap-900X5L:~/Documents/os/hw7$ ld -o p2 p2.o ostap@ostap-900X5L:~/Documents/os/hw7$ ostap@ostap-900X5L:~/Documents/os/hw7$ ./p2 Hello World ostap@ostap-900X5L:~/Documents/os/hw7$ echo $? 10 ostap@ostap-900X5L:~/Documents/os/hw7$ strace ./p2 execve("./p2", ["./p2"], [/* 61 vars */]) = 0 write(1, "Hello World\n", 12Hello World ) = 12 exit(10) = ? +++ exited with 10 +++ ostap@ostap-900X5L:~/Documents/os/hw7$
```

## P4:

```
.data
msg: .ascii "Hello World\n"

.text
.global _start

_start:
    movq $1, %rax
    movq $1, %rdi
    movq $12, %rdx
    syscall

movq $0, %rdi
    syscall

movq $0, %rdi
    syscall

movq $0, %rdi
    syscall

movq $0, %rdi
    syscall
```