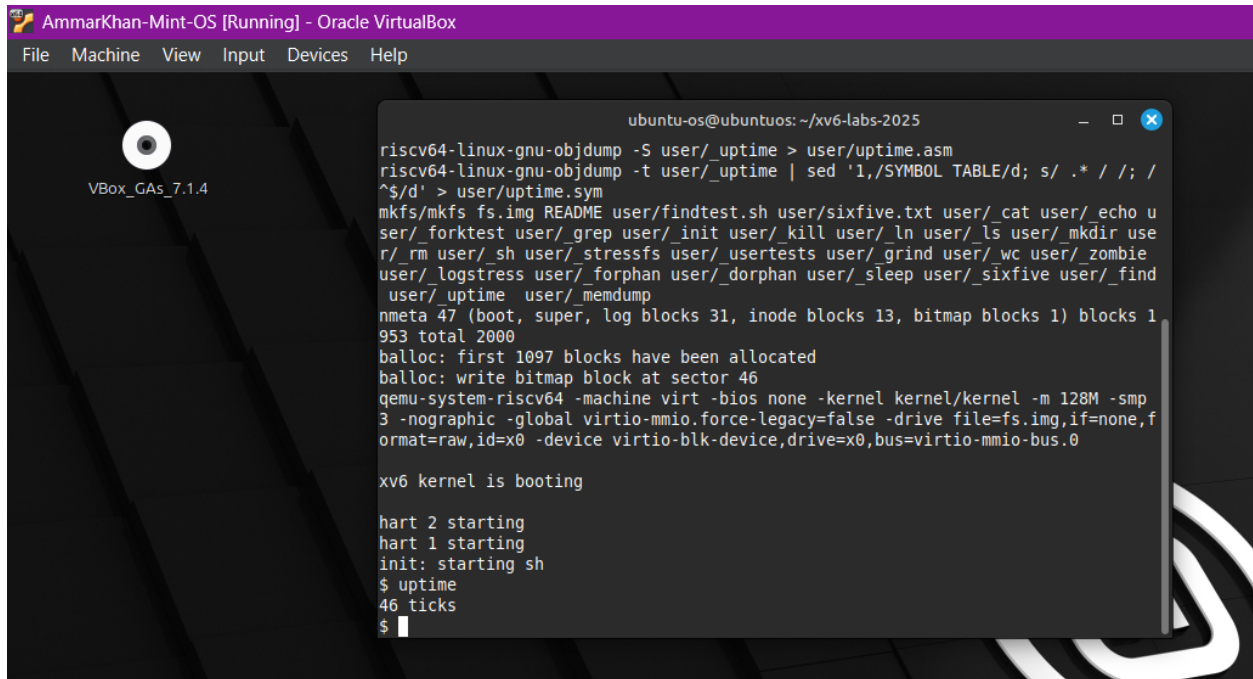


Task 1

Uptime.c



```
AmmarKhan-Mint-OS [Running] - Oracle VirtualBox
File Machine View Input Devices Help

VBox_GAs_7.1.4

ubuntu-os@ubuntuos: ~/xv6-labs-2025
riscv64-linux-gnu-objdump -S user/_uptime > user/uptime.asm
riscv64-linux-gnu-objdump -t user/_uptime | sed '1,/SYMBOL TABLE/d; s/ .* / /; /^$/d' > user/uptime.sym
mkfs/mkfs fs.img README user/findtest.sh user/sixfive.txt user/cat user/echo u
ser/ forktest user/ grep user/ init user/ kill user/ ln user/ lsh user/ mkdir use
r/_rm user/_sh user/_stressfs user/_usertests user/_grind user/_wc user/_zombie
user/_logstress user/_forphan user/_dorphan user/_sleep user/_sixfive user/_find
user/_uptime user/_memdump
nmeta 47 (boot, super, log blocks 31, inode blocks 13, bitmap blocks 1) blocks 1
953 total 2000
balloc: first 1097 blocks have been allocated
balloc: write bitmap block at sector 46
qemu-system-riscv64 -machine virt -bios none -kernel kernel/kernel -m 128M -smp
3 -nographic -global virtio-mmio.force-legacy=false -drive file=fs.img,if=none,f
ormat=raw,id=x0 -device virtio-blk-device,drive=x0,bus=virtio-mmio-bus.0

xv6 kernel is booting

hart 2 starting
hart 1 starting
init: starting sh
$ uptime
46 ticks
$
```

```
riscv64-linux-gnu-objdump -S kernel/kernel > kernel/kernel.asm
riscv64-linux-gnu-objdump -t kernel/kernel | sed '1,/SYMBOL TABLE/d; s/ .* / /; /^$/d' > kernel/kernel.sym
make[1]: Leaving directory '/home/ubuntu-os/xv6-labs-2025'
== Test sleep, no arguments ==
$ make qemu-gdb
sleep, no arguments: OK (5.6s)
== Test sleep, returns ==
$ make qemu-gdb
sleep, returns: OK (0.8s)
== Test sleep, makes syscall ==
$ make qemu-gdb
sleep, makes syscall: OK (1.0s)
== Test sixfive_test ==
$ make qemu-gdb
sixfive_test: OK (0.8s)
== Test sixfive_readme ==
$ make qemu-gdb
sixfive_readme: OK (1.5s)
== Test sixfive_all ==
$ make qemu-gdb
sixfive_all: OK (1.6s)
== Test memdump, examples ==
$ make qemu-gdb
memdump, examples: OK (1.4s)
== Test memdump, format ii, S, p ==
$ make qemu-gdb
memdump, format ii, S, p: OK (2.0s)
== Test find, in current directory ==
$ make qemu-gdb
find, in current directory: OK (1.0s)
== Test find, in sub-directory ==
$ make qemu-gdb
find, in sub-directory: OK (1.1s)
== Test find, recursive ==
$ make qemu-gdb
find, recursive: OK (1.4s)
== Test exec ==
$ make qemu-gdb
exec: OK (1.1s)
(Old xv6.out.find_exec failure log removed)
== Test exec, multiple args ==
$ make qemu-gdb
exec, multiple args: OK (1.0s)
(Old xv6.out.find_exec_args failure log removed)
== Test exec, recursive find ==
$ make qemu-gdb
exec, recursive find: OK (1.4s)
(Old xv6.out.test_find_sh failure log removed)
== Test time ==
time: FAIL
Cannot read time.txt
Score: 130/131
make: *** [Makefile:363: grade] Error 1
```