

Algorithm Assignment 1

陈贲 (12212231)

Problem 1. Explain the options of `make qemu` in Makefile, which is

```
qemu-system-riscv64 \  
-machine virt \  
-nographic \  
-bios default \  
-device loader,file=bin/ucore.bin,addr=0x80200000
```

Solution.

- `-machine virt`: use RISC-V VirtIO board as virtual machine
- `-nographic`: disable graphical output and redirect serial I/Os to console
- `-bios default`: use the default firmware
- `-device loader,file=bin/ucore.bin,addr=0x80200000`: use the Generic Loader driver device, and pass the loader options to it, telling the loader to load `ucore.bin` to the address `0x80200000` in the memory.