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## 实验进度

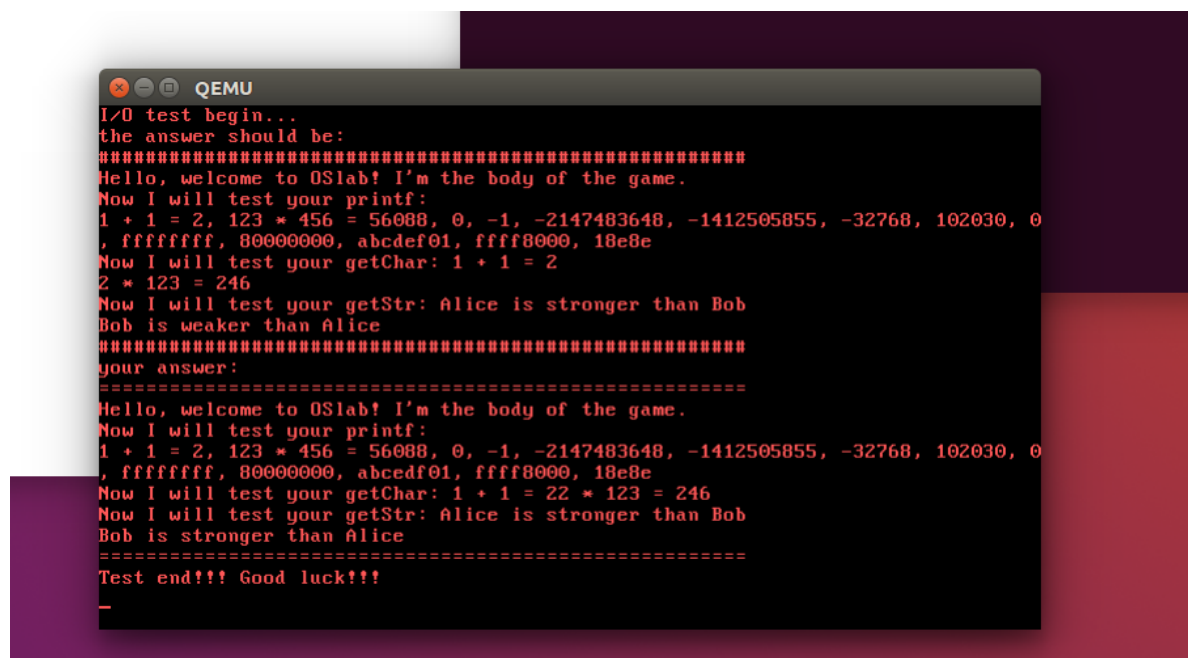
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完成了所有任务

## 实验结果：

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app/main.c测试截图：



```
I/O test begin...
the answer should be:
#####
Hello, welcome to OSlab! I'm the body of the game.
Now I will test your printf:
1 + 1 = 2, 123 * 456 = 56088, 0, -1, -2147483648, -1412505855, -32768, 102030, 0
, ffffffff, 80000000, abcdef01, ffff8000, 18e8e
Now I will test your getchar: 1 + 1 = 2
2 * 123 = 246
Now I will test your getStr: Alice is stronger than Bob
Bob is weaker than Alice
#####
your answer:
=====
Hello, welcome to OSlab! I'm the body of the game.
Now I will test your printf:
1 + 1 = 2, 123 * 456 = 56088, 0, -1, -2147483648, -1412505855, -32768, 102030, 0
, ffffffff, 80000000, abcdef01, ffff8000, 18e8e
Now I will test your getchar: 1 + 1 = 22 * 123 = 246
Now I will test your getStr: Alice is stronger than Bob
Bob is stronger than Alice
=====
Test end!!! Good luck!!!
-
```

## 实验代码修改位置

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- bootloader/boot.c的bootmain函数。加载kernel
- kernel/kernel/idt.c的三个初始化函数：setIntr, setTrap, initIdt, IDT的初始化
- kernel/kernel/irqHandle.c的 irqHandle, KeyboardHandle, syscallPrint, syscallGetChar, syscallGetStr, 中断例程函数
- kernel/kernel/kvm.c的loadUMain函数，加载用户程序
- kernel/kernel/main.c中的kEntry函数，初始化
- lib/syscall.c的getChar, getStr, printf中的格式化