# lab2实验报告

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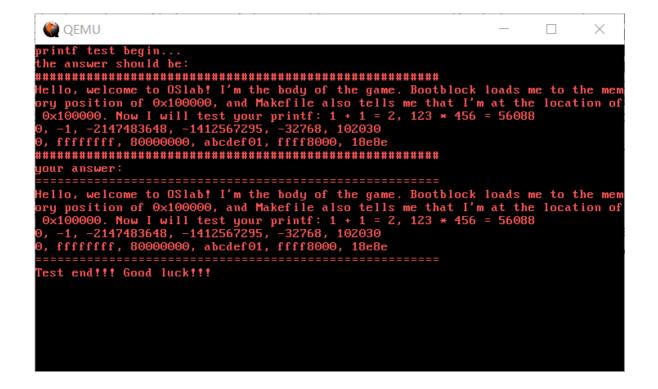
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# 实验描述

#### 实验进度:完成了所有实验内容

#### 实验结果:

```
format fs.bin -s 8192 -b 2
FORMAT success.
1023 inodes and 3959 data blocks available.
mkdir /boot
MKDIR success.
1022 inodes and 3958 data blocks available.
cp uMain.elf to /boot/initrd
cp success.
1021 inodes and 3949 data blocks available.
mkdir /usr
MKDIR success.
1020 inodes and 3948 data blocks available.
ls /
Name: ., Inode: 1, Type: 2, LinkCount: 4, BlockCount: 1, Size: 1024.
Name: .., Inode: 1, Type: 2, LinkCount: 4, BlockCount: 1, Size: 1024.
Name: boot, Inode: 2, Type: 2, LinkCount: 2, BlockCount: 1, Size: 1024.
Name: usr, Inode: 4, Type: 2, LinkCount: 2, BlockCount: 1, Size: 1024.
LS success.
1020 inodes and 3948 data blocks available.
ls /boot
Name: ., Inode: 2, Type: 2, LinkCount: 2, BlockCount: 1, Size: 1024.
Name: .., Inode: 1, Type: 2, LinkCount: 4, BlockCount: 1, Size: 1024.
Name: initrd, Inode: 3, Type: 1, LinkCount: 1, BlockCount: 9, Size: 9132.
LS success.
1020 inodes and 3948 data blocks available.
ls /usr
Name: ., Inode: 4, Type: 2, LinkCount: 2, BlockCount: 1, Size: 1024.
Name: .., Inode: 1, Type: 2, LinkCount: 4, BlockCount: 1, Size: 1024.
LS success.
1020 inodes and 3948 data blocks available.
```



### 代码修改:

- 1. 编写 cp 函数,实现复制
- 2. 编写 keyboardHandle 函数,实现键盘响应
- 3. 完善 syscallPrint 函数
- 4. 完善 printf 函数,调用转换函数使之能够格式化输出

# 实验感受

通过对输出函数的代码编写,进一步理解了printf所引起的系统的一系列工作流。通过中断机制,系统可以实现在输出设备上进行输出,而通过一步步的抽象封装,输出函数变得易于调用。

其中最让我感到有趣的就是printf一步步的封装过程,体现了代码低耦合的设计思想