实验四修改记录

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Makefile:

改make image为make run，

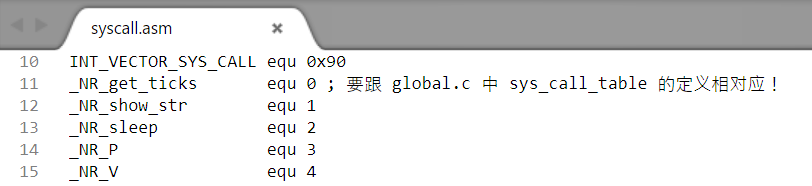
CFLAGS中加入"-fno-stack-protector"(否则编译会遇到“\_\_stack\_chk\_fail\_local”错误)

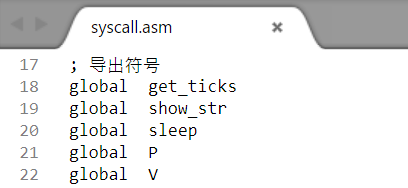
syscall.asm:增加系统调用函数声明和定义：

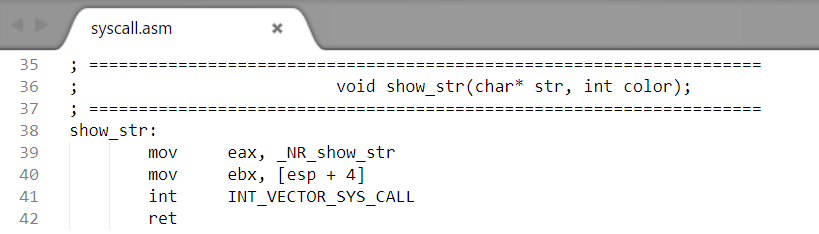
show\_str: 添加一个系统调用sys\_disp\_str，其功能接受一个char\* str参数，打印出字符串

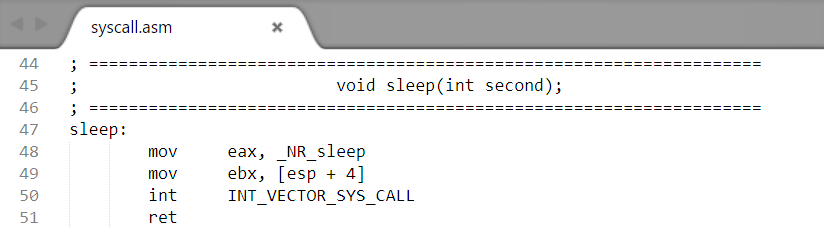
sleep: 添加一个系统调用sys\_process\_sleep，其功能是接受一个int型参数mill\_seconds，调用此System Call的进程会在mill\_seconds毫秒内不被进程调度函数分配时间片

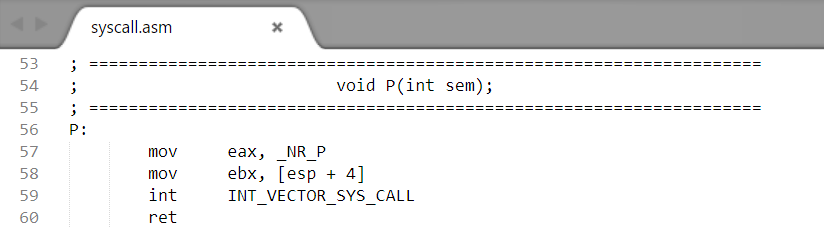
P/V: 添加两个系统调用sys\_sem\_p和sys\_sem\_v，即信号量的PV操作，在此基础上模拟睡眠的理发师问题

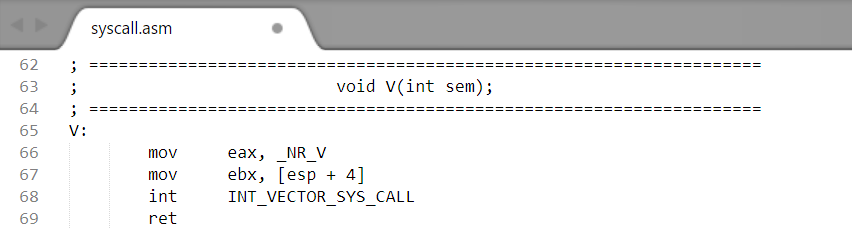




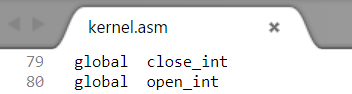


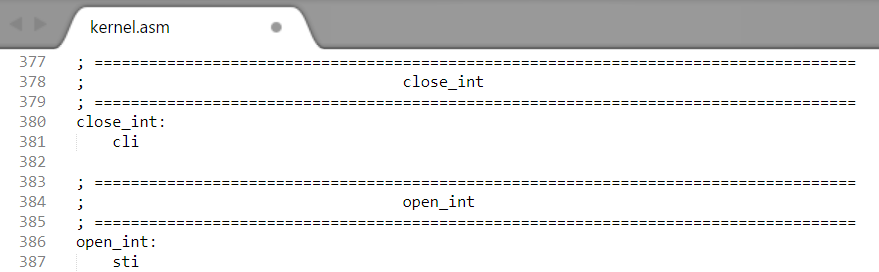




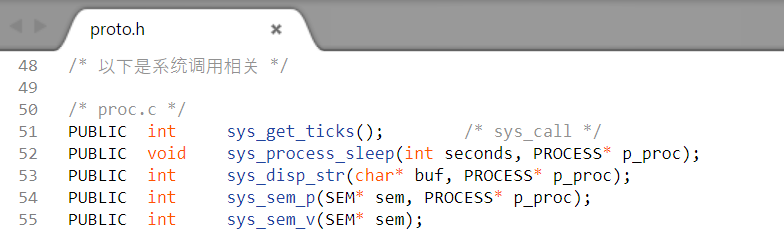


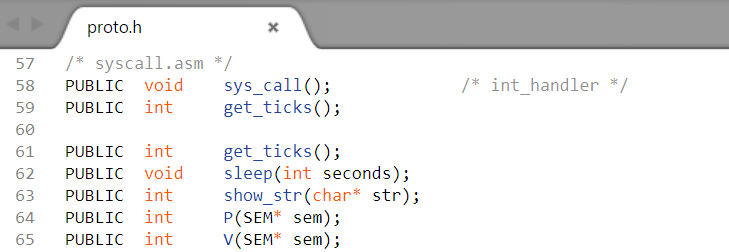
kernel.asm:开关中断



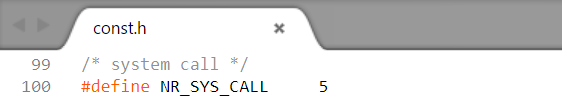


proto.h:添加对四个函数的声明

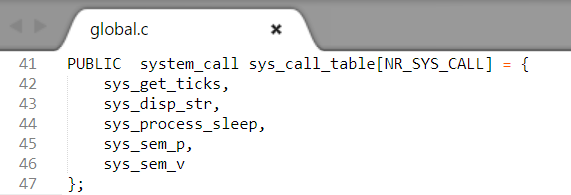




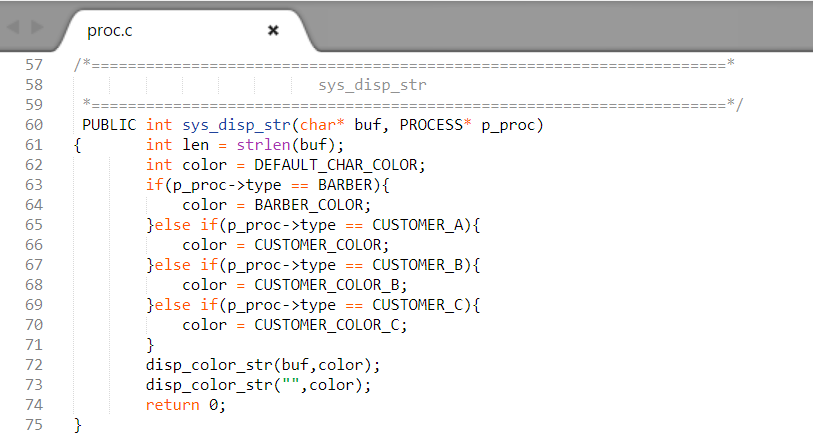
const.h:将系统调用函数数目改为5

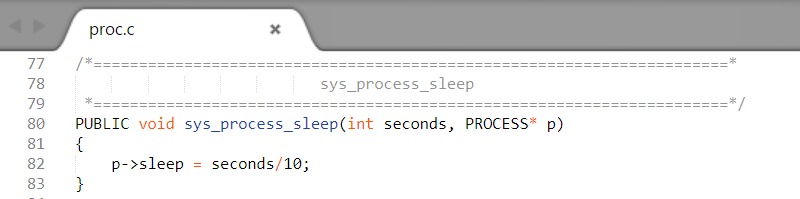


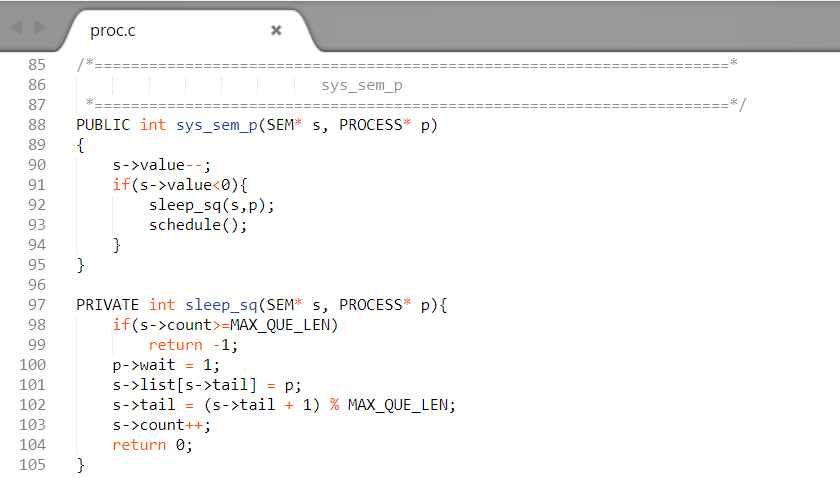
global.c:在sys\_call\_table中添加四个系统调用

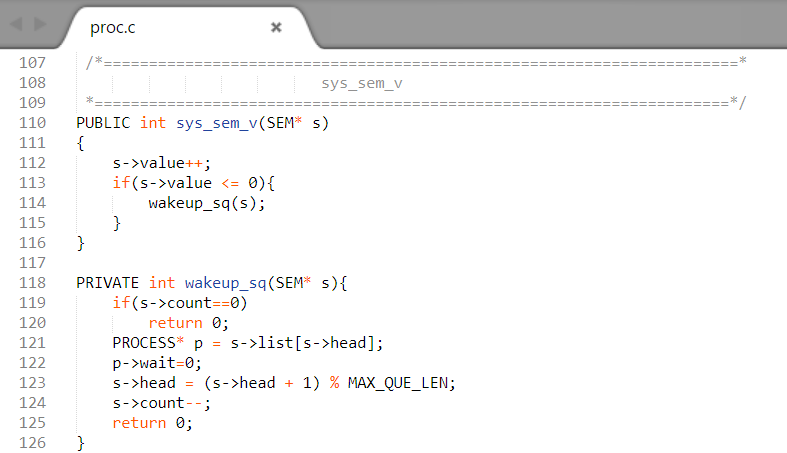


proc.c:添加四个系统调用的实现

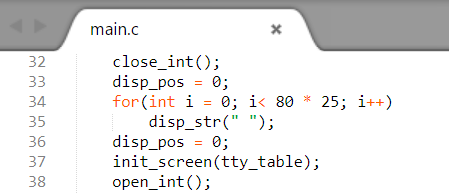


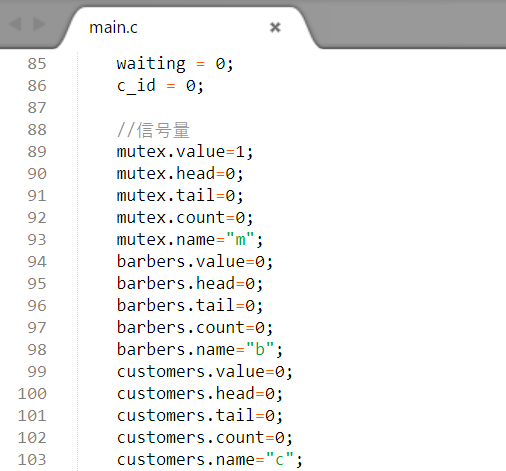
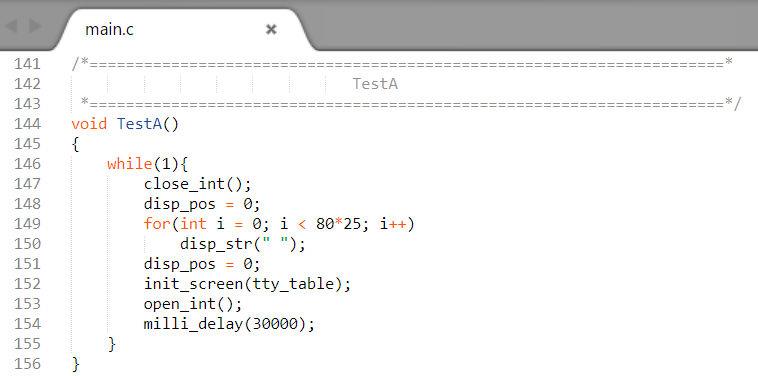




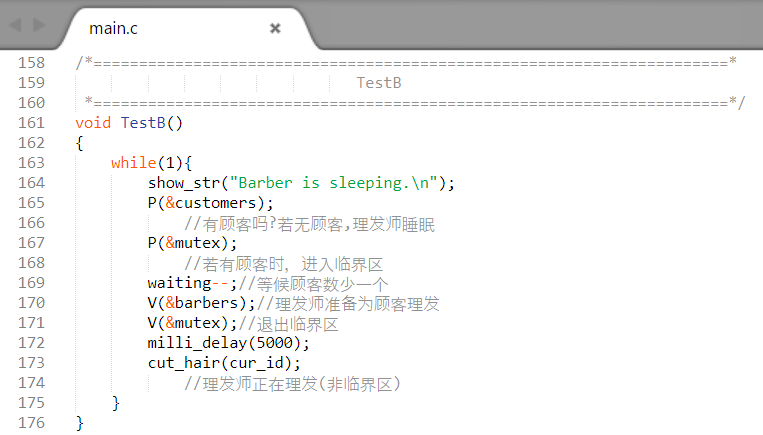


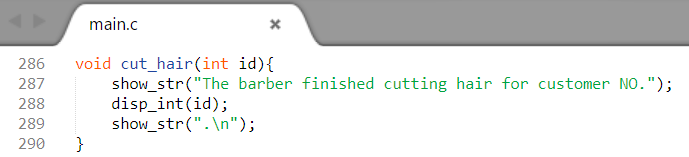
main.c:清屏操作；增加进程



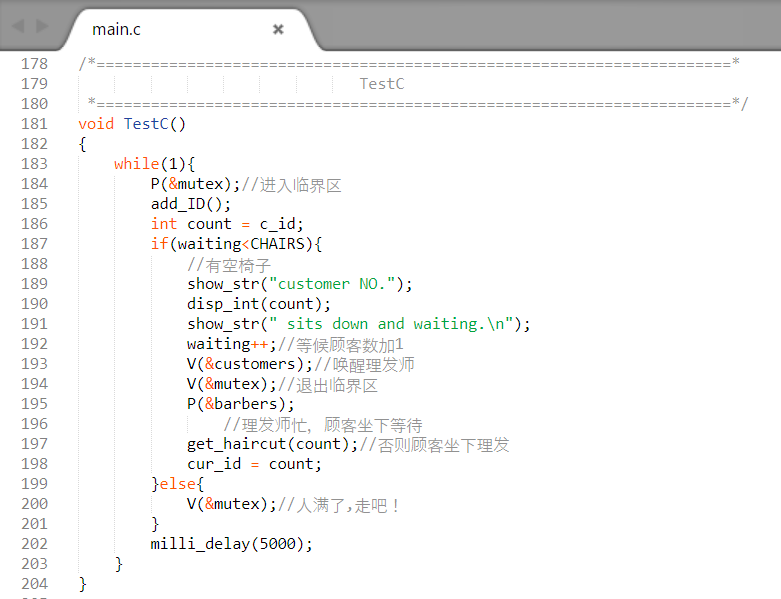


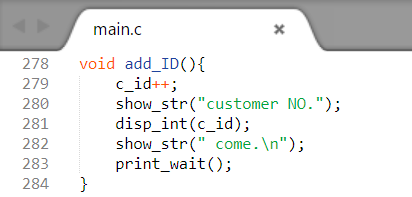
Barber理发师进程：

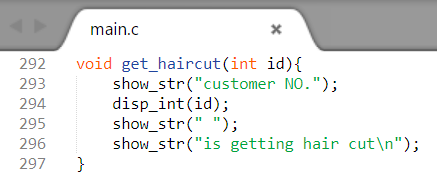




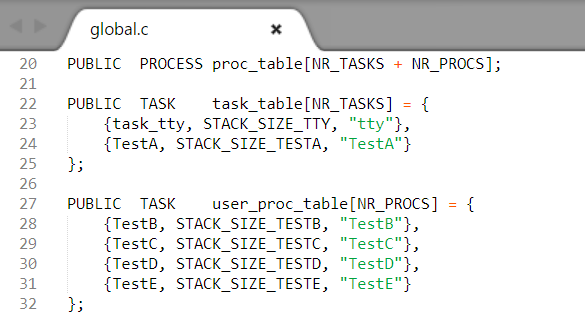
costomer顾客进程C(D、E相同)：



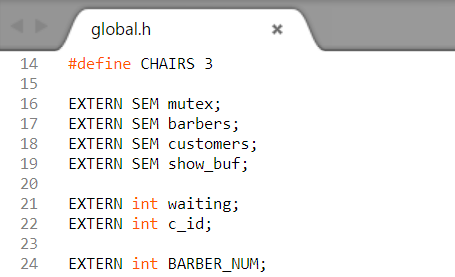




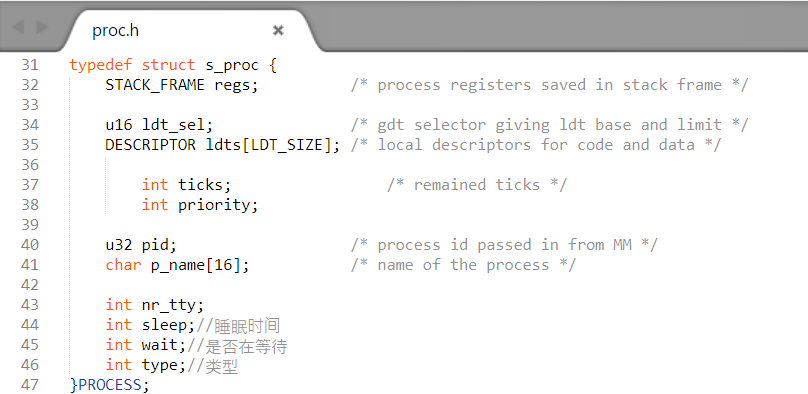
global.c: task\_table, user\_proc\_table增加进程



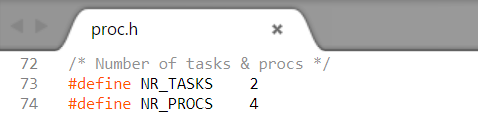
global.h:信号量及一些常量的声明

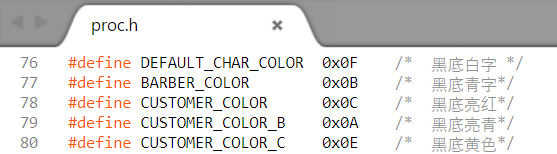


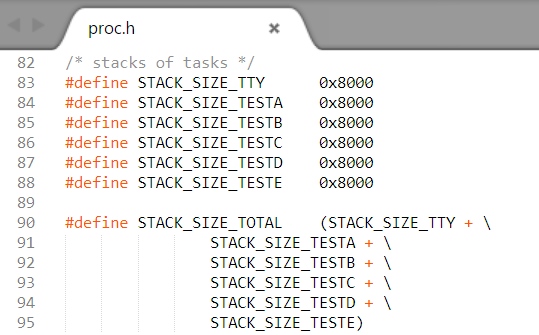
proc.h: PROCESS中添加属性；SEM的定义；NR\_TASKS改为2，NR\_PROCS改为4；颜色常量的定义；添加任务栈大小。



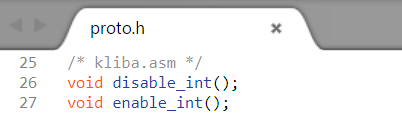


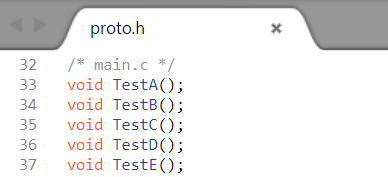




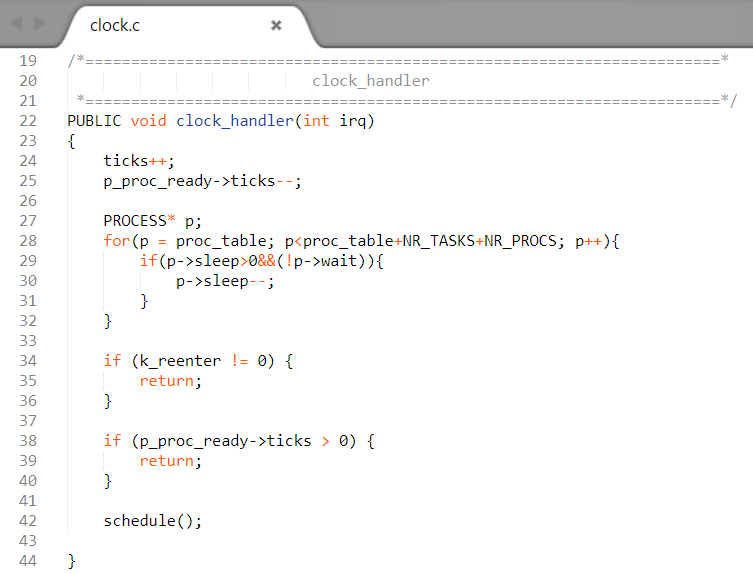


proto.h:进程的声明；开关中断的方法声明



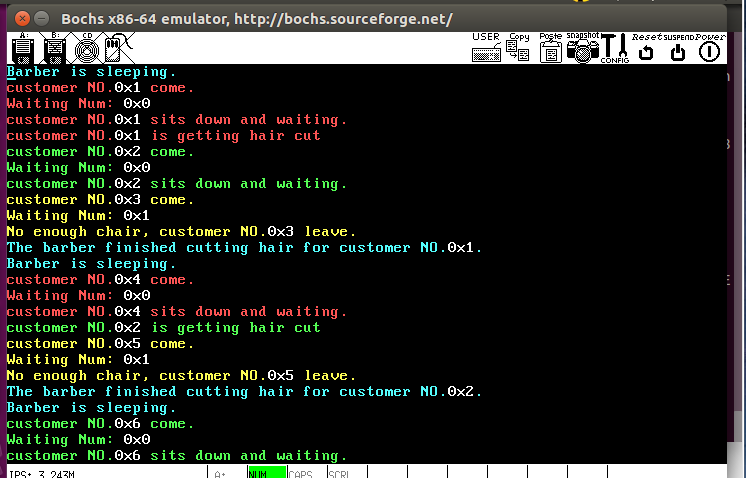


clock.c:时钟的处理

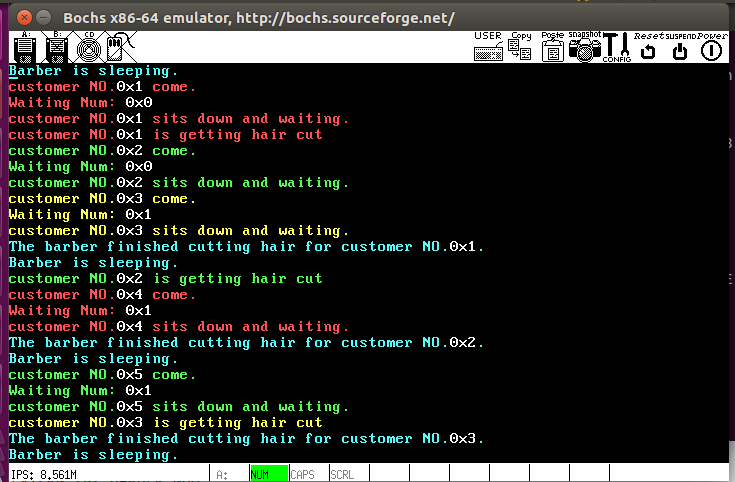


运行截图：

一把椅子



两把椅子



三把椅子

