Linux 程序设计作业

Shell 脚本编写

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1. 编写一个 shell 脚本显示 HOME、PATH、SHLVL、LOGNAME 变量的值。

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# File Name: e1.sh
# Author: liujing
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# Created Time: 2015年01月22日星期四23时09分09秒
#!/bin/bash
echo "$HOME"
echo "$PATH"
echo "$SHLVL"
echo "$LOGNAME"
liujing@ubuntu:~/workspace/linux_programming/homework/linux_homework/h2$ sh e1.s
/home/liujing
/usr/lib/lightdm/lightdm:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin
:/bin:/usr/games
2. 用 while 语句重写下列 Shell 脚本程序,以实现相同的功能:
#!/bin/sh
clear
select item in Continue Finish
case "$item" in
      Continue) ;;
      Finish) break ;;
      *) echo "Wrong choice! Please select again!" ;;
esac
done
# File Name: e2.sh
# Author: liujing
# mail: jingliu.cs@gmail.com
# Created Time: 2015年01月22日星期四23时15分47秒
#!/bin/bash
echo '1) Continue'
echo '2) Finish'
#read -p "#?" var
var=1
while [ "$var" -ne 2 ]
do
  read -p "#?" var
  if [ "$var" -ne 1 -a "$var" -ne 2 ];then
```

```
echo 'Wrong choice! Please select again'
   fi
done
exit 0
liujing@ubuntu:~/workspace/linux_programming/homework/linux_homework/h2$ ./e2.sh
1) Continue
2) Finish
#?1
#?3
Wrong choice! Please select again
#?4
Wrong choice! Please select again
#?5
Wrong choice! Please select again
#?2
liujing@ubuntu:~/workspace/linux_programming/homework/linux_homework/h2$
3. 编写一个 shell 脚本,显示 Fibonacci 数列的前 10 个数字。(Fibonacci
数列: a[i+2]=a[i+1]+a[i], a[1]=0, a[2]=1, i>=1)
# File Name: e3.sh
# Author: liujing
# mail: jingliu.cs@gmail.com
# Created Time: 2015年01月23日星期五00时09分19秒
#!/bin/bash
echo '0'
echo '1'
a0=0
a1=1
i=1
while [ "$i" -lt 9 ]
do
   a2=$(($a0+$a1))
   echo "$a2"
   a1=$a2
   a0=$a1
   i=$(($i+1))
done
exit 0
liujing@ubuntu:~/workspace/linux_programming/homework/linux_homework/h2$ ./e3.sh
2
4
8
16
32
128
```

liujing@ubuntu:~/workspace/linux_programming/homework/linux_homework/h2\$