

系統程式 HW12

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原始執行

```
? ? ~/De/h/Sy/hw12 > ./lovelyRon  
? ? ~/De/h/SystemProgramming/hw12 >
```

stderr.log

```
hw12 > ≡ stderr.log  
1  ls: cannot open directory '/etc/audit/plugins.d': Permission denied  
2  ls: cannot open directory '/etc/credstore': Permission denied  
3  ls: cannot open directory '/etc/credstore.encrypted': Permission denied  
4  ls: cannot open directory '/etc/NetworkManager/system-connections': Permission  
5  ls: cannot open directory '/etc/pacman.d/gnupg/crls.d': Permission denied  
6  ls: cannot open directory '/etc/pacman.d/gnupg/openpgp-revocs.d': Permission de  
7  ls: cannot open directory '/etc/pacman.d/gnupg/private-keys-v1.d': Permission d  
8  ls: cannot open directory '/etc/polkit-1/rules.d': Permission denied  
9  ls: cannot open directory '/etc/sudoers.d': Permission denied  
10 ls: cannot open directory '/home/lost+found': Permission denied  
11 ls: cannot open directory '/lost+found': Permission denied  
12 ls: cannot open directory '/proc/1/fd': Permission denied  
13 ls: cannot open directory '/proc/1/fdinfo': Permission denied
```

stdout.log

```
hw12 > ≡ stdout.log
1  /:
2  bin
3  boot
4  core1_temp
5  core2_temp
6  dev
7  die_temp
8  efi
9  etc
10 home
11 lib
12 lib64
13 lost+found
```

註解掉❶

對❶有影響，輸入變回 stdin，要自己輸入10個字元才會離開❶在的for迴圈

```
❶ ❶ ~/De/homework/SystemProgramming/hw12 > ./lovelyRon
123
^C
❶ ❶ ~/De/h/Sy/hw12 > ./lovelyRon
0123456789
❶ ❶ ~/De/h/SystemProgramming/hw12 > █
```

輸出的 `stdout.log` `stderr.log` 相同

註解掉❷

不會產稱 `stdout.log` 改回 stdout，對❷造成影響

```

? ? ~/De/h/SystemProgramming/hw12 > ./lovelyRon
0: hello
1: hello
2: hello
3: hello
4: hello
5: hello
6: hello
7: hello
8: hello
9: hello
試著在20秒內切斷連線

```

印出ls的訊息

```

2022-12-12_17-09-31_gui.log 2023-02-18_20-41-46_gui.log 2023-05-09_23-25-07_gui.log
2022-12-12_18-16-28_gui.log 2023-02-18_20-43-34_gui.log

/var/opt:

/var/spool:
anacron cron mail

/var/spool/anacron:

/var/spool/cron:

/var/spool/mail:

/var/tmp:
systemd-private-e2511152d29b4a4ea232b7e40480c505-systemd-logind.service-EZCVWa
systemd-private-e2511152d29b4a4ea232b7e40480c505-systemd-timesyncd.service-gUSJWw
systemd-private-e2511152d29b4a4ea232b7e40480c505-upower.service-oJvESI
? ? ~/De/h/SystemProgramming/hw12 >

```

註解掉③

不會產稱 `stderr.log` 改回輸出到 `stderr`，列印在終端機上

`fprintf(stderr, "*");` *會列印出來

```

? ? ~/De/h/SystemProgramming/hw12 > ./lovelyRon
*****

```

對於⑦有影響

```
ls: cannot open directory '/var/lib/udisks2': Permission denied
ls: cannot open directory '/var/log/audit': Permission denied
ls: cannot open directory '/var/log/private': Permission denied
ls: cannot open directory '/var/tmp/systemd-private-e2511152d29b4a
CVWa': Permission denied
ls: cannot open directory '/var/tmp/systemd-private-e2511152d29b4a
-gUSJWw': Permission denied
ls: cannot open directory '/var/tmp/systemd-private-e2511152d29b4a
ermission denied
~ /De/h/SystemProgramming/hw12 >
```

註解掉⑥

程式不會忽略 SIGHUP 後，關閉終端機程式就會停止，`stdout.log` `stderr.log` 沒有內容

```
~ /De/homework/SystemProgramming/hw12 > cat stderr.log
~ /De/homework/SystemProgramming/hw12 > cat stdout.log
~ /De/homework/SystemProgramming/hw12 >
```