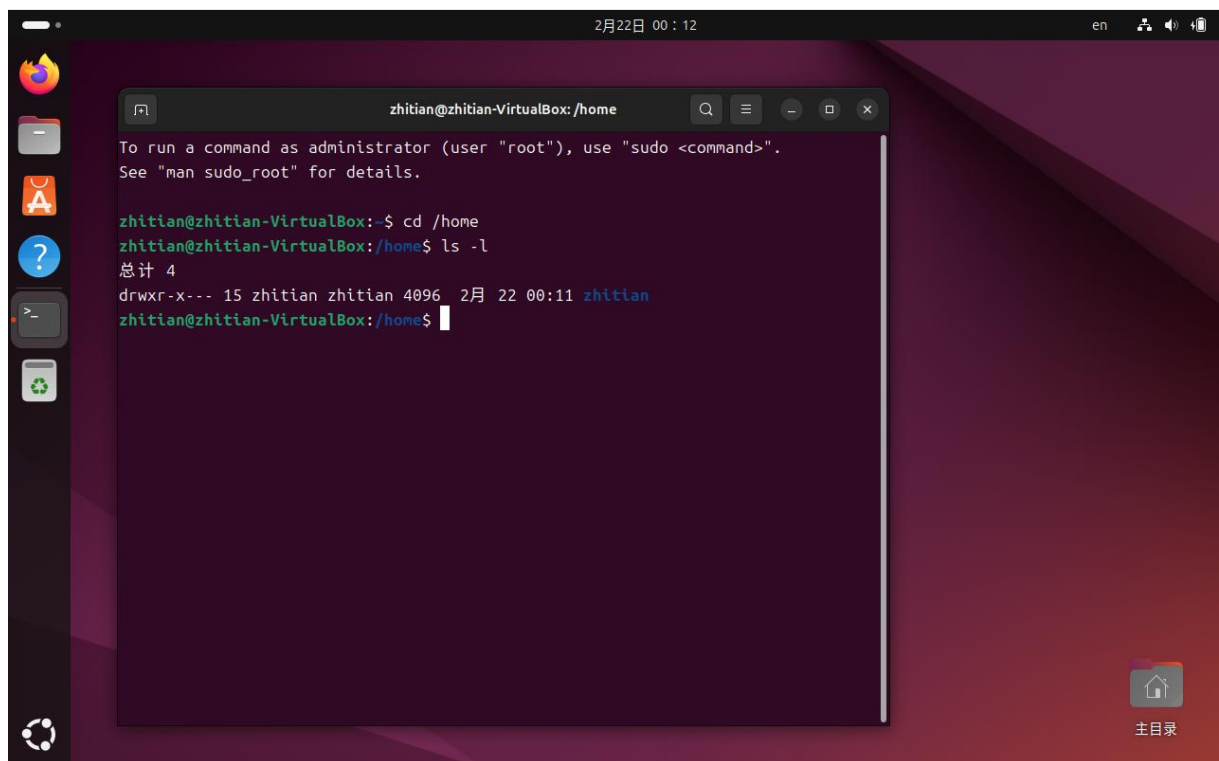


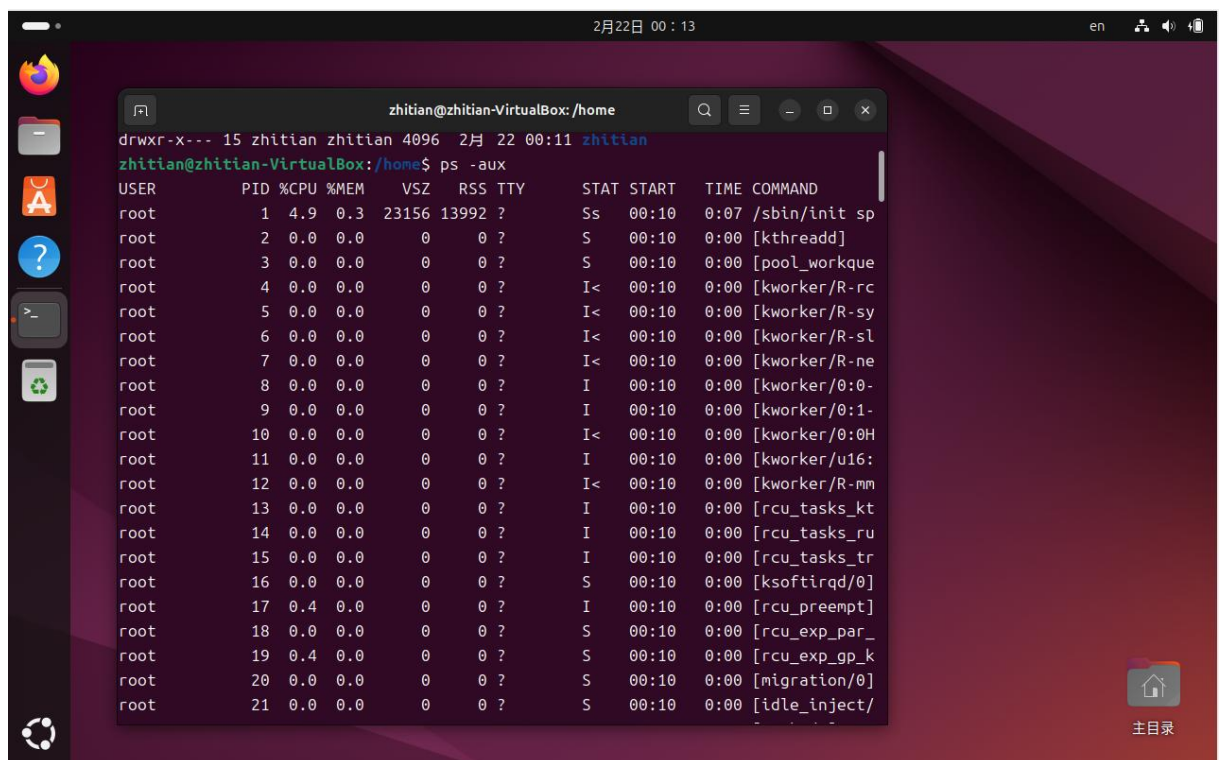
## 题目一



A terminal window titled "zhitian@zhitian-VirtualBox: /home" showing the output of the `ls -l` command. The output displays file permissions, owner, group, size, and timestamp for a file named "zhitian".

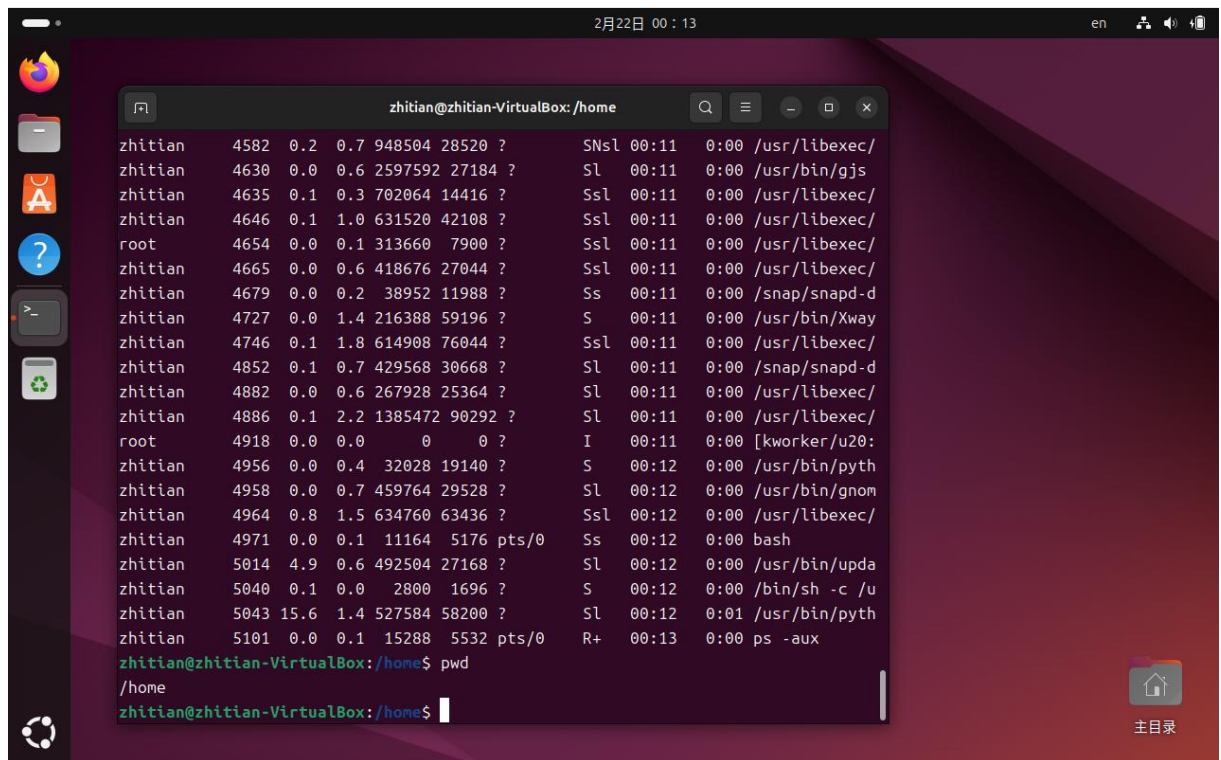
```
zhitian@zhitian-VirtualBox: /home
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

zhitian@zhitian-VirtualBox:~$ cd /home
zhitian@zhitian-VirtualBox:/home$ ls -l
总计 4
drwxr-x--- 15 zhitian zhitian 4096 2月 22 00:11 zhitian
zhitian@zhitian-VirtualBox:/home$
```



A terminal window titled "zhitian@zhitian-VirtualBox: /home" showing the output of the `ps -aux` command. The output lists system processes, including the init process and various kernel workers.

```
zhitian@zhitian-VirtualBox: /home
drwxr-x--- 15 zhitian zhitian 4096 2月 22 00:11 zhitian
zhitian@zhitian-VirtualBox:/home$ ps -aux
USER          PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root           1  4.9  0.3 23156 13992 ?        Ss   00:10   0:07 /sbin/init sp
root           2  0.0  0.0      0     0 ?        S    00:10   0:00 [kthreadd]
root           3  0.0  0.0      0     0 ?        S    00:10   0:00 [pool_workque
root           4  0.0  0.0      0     0 ?        I<   00:10   0:00 [kworker/R-rc
root           5  0.0  0.0      0     0 ?        I<   00:10   0:00 [kworker/R-sy
root           6  0.0  0.0      0     0 ?        I<   00:10   0:00 [kworker/R-sl
root           7  0.0  0.0      0     0 ?        I<   00:10   0:00 [kworker/R-ne
root           8  0.0  0.0      0     0 ?        I    00:10   0:00 [kworker/0:0-
root           9  0.0  0.0      0     0 ?        I    00:10   0:00 [kworker/0:1-
root          10  0.0  0.0      0     0 ?        I<   00:10   0:00 [kworker/0:0H
root          11  0.0  0.0      0     0 ?        I    00:10   0:00 [kworker/u16:
root          12  0.0  0.0      0     0 ?        I<   00:10   0:00 [kworker/R-mm
root          13  0.0  0.0      0     0 ?        I    00:10   0:00 [rcu_tasks_kt
root          14  0.0  0.0      0     0 ?        I    00:10   0:00 [rcu_tasks_ru
root          15  0.0  0.0      0     0 ?        I    00:10   0:00 [rcu_tasks_tr
root          16  0.0  0.0      0     0 ?        S    00:10   0:00 [ksoftirqd/0]
root          17  0.4  0.0      0     0 ?        I    00:10   0:00 [rcu_preempt]
root          18  0.0  0.0      0     0 ?        S    00:10   0:00 [rcu_exp_par_
root          19  0.4  0.0      0     0 ?        S    00:10   0:00 [rcu_exp_gp_k
root          20  0.0  0.0      0     0 ?        S    00:10   0:00 [migration/0]
root          21  0.0  0.0      0     0 ?        S    00:10   0:00 [idle_inject/
```



The screenshot shows a Linux desktop with a dark theme. A terminal window is open, displaying the output of the `ps -aux` command. The terminal title is `zhitian@zhitian-VirtualBox: /home`. The output lists various system processes, including `gjs`, `libexec`, `gnom`, `pts/0`, and `ps -aux`. The desktop has a sidebar with application icons and a top status bar showing the date and time as 2月22日 00:13.

```
zhitian@zhitian-VirtualBox: /home
zhitian 4582 0.2 0.7 948504 28520 ? SsSl 00:11 0:00 /usr/libexec/
zhitian 4630 0.0 0.6 2597592 27184 ? Sl 00:11 0:00 /usr/bin/gjs
zhitian 4635 0.1 0.3 702064 14416 ? Ssl 00:11 0:00 /usr/libexec/
zhitian 4646 0.1 1.0 631520 42108 ? Ssl 00:11 0:00 /usr/libexec/
root 4654 0.0 0.1 313660 7900 ? Ssl 00:11 0:00 /usr/libexec/
zhitian 4665 0.0 0.6 418676 27044 ? Ssl 00:11 0:00 /usr/libexec/
zhitian 4679 0.0 0.2 38952 11988 ? Ss 00:11 0:00 /snap/snapd-d
zhitian 4727 0.0 1.4 216388 59196 ? S 00:11 0:00 /usr/bin/Xway
zhitian 4746 0.1 1.8 614908 76044 ? Ssl 00:11 0:00 /usr/libexec/
zhitian 4852 0.1 0.7 429568 30668 ? Sl 00:11 0:00 /snap/snapd-d
zhitian 4882 0.0 0.6 267928 25364 ? Sl 00:11 0:00 /usr/libexec/
zhitian 4886 0.1 2.2 1385472 90292 ? Sl 00:11 0:00 /usr/libexec/
root 4918 0.0 0.0 0 0 ? I 00:11 0:00 [kworker/u20:
zhitian 4956 0.0 0.4 32028 19140 ? S 00:12 0:00 /usr/bin/pyth
zhitian 4958 0.0 0.7 459764 29528 ? Sl 00:12 0:00 /usr/bin/gnom
zhitian 4964 0.8 1.5 634760 63436 ? Ssl 00:12 0:00 /usr/libexec/
zhitian 4971 0.0 0.1 11164 5176 pts/0 Ss 00:12 0:00 bash
zhitian 5014 4.9 0.6 492504 27168 ? Sl 00:12 0:00 /usr/bin/upda
zhitian 5040 0.1 0.0 2800 1696 ? S 00:12 0:00 /bin/sh -c /u
zhitian 5043 15.6 1.4 527584 58200 ? Sl 00:12 0:01 /usr/bin/pyth
zhitian 5101 0.0 0.1 15288 5532 pts/0 R+ 00:13 0:00 ps -aux
zhitian@zhitian-VirtualBox: /home$ pwd
/home
zhitian@zhitian-VirtualBox: /home$
```

## 题目二

### 命令解释:

`ls -l`: 这个命令用于列出当前目录下的文件和子目录的详细信息。`ls` 是 `list` 的缩写, 表示列出目录内容; `-l` 表示以长格式显示, 这样可以查看到文件的详细信息。

`ps -aux`: 这个命令用于显示当前系统中所有正在运行的进程详细信息。`ps` 是 `process status` 的缩写, 表示进程状态; `-a` 表示显示所有用户的进程, 不包括会话领导进程; `-u` 表示显示进程的用户/所有者; `-x` 表示显示没有控制终端的进程。

`pwd`: 这个命令用于显示当前工作目录的完整路径。`pwd` 是 `print working directory` 的缩写, 表示打印工作目录。使用这个命令可以确认当前所在的目录位置。