

(1Q

```
osoolian_99521073@99521073:~$ cat nums.txt
1      5      6
8      4      3
5      9      6
4      8      5
1      2      6
osoolian_99521073@99521073:~$ awk '{ sum1 += $1; sum2 += $2; sum3 += $3; } END {
printf "col1: %d\ncol2: %d\ncol3: %d\n" , sum1, sum2, sum3}' nums.txt
col1: 19
col2: 28
col3: 26
osoolian_99521073@99521073:~$ awk '{ if ($1 > 2) {cnt += 1; sum += $3}} END {pri
ntf "avg = %d\n", sum/cnt}' nums.txt
avg = 4
osoolian_99521073@99521073:~$
```

(Q2

```
osoolian_99521073@99521073:~$ awk -F ':' '{if ($1 ~ /^[a-k]/ && $3 >= 500) { pri
nt $1 } }' /etc/passwd
osoolian_99521073@99521073:~$
```

(Q3)

```
osoolian_99521073@99521073: ~
Pictures
Public
sentences.txt
Templates
test.txt
Videos
osoolian_99521073@99521073:~$ clear
osoolian_99521073@99521073:~$ ls -lu
total 72
-rw-r--r-- 1 root root 10240 Apr 26 12:23 backup.tar
-rw-rw-r-- 1 osoolian_99521073 osoolian_99521073 292 Apr 11 13:16 badlogins.txt
drwxr-xr-x 3 osoolian_99521073 osoolian_99521073 4096 May 10 12:26 Desktop
drwxr-xr-x 2 osoolian_99521073 osoolian_99521073 4096 May 3 17:32 Documents
drwxr-xr-x 2 osoolian_99521073 osoolian_99521073 4096 May 3 17:32 Downloads
-rw-r--r-- 1 osoolian_99521073 osoolian_99521073 8980 May 3 17:32 examples.desktop
drwxr-xr-x 2 osoolian_99521073 osoolian_99521073 4096 May 3 17:32 Music
-rw-rw-r-- 1 osoolian_99521073 osoolian_99521073 30 May 10 12:44 nums.txt
drwxr-xr-x 2 osoolian_99521073 osoolian_99521073 4096 May 3 17:32 Pictures
-rw-rw-r-- 1 osoolian_99521073 osoolian_99521073 70 Apr 11 13:20 sentences.txt
drwxr-xr-x 2 osoolian_99521073 osoolian_99521073 4096 May 10 12:26 Templates
-rw-rw-r-- 1 osoolian_99521073 osoolian_99521073 9 May 10 13:18 test.txt
drwxr-xr-x 2 osoolian_99521073 osoolian_99521073 4096 May 3 17:32 Videos
osoolian_99521073@99521073:~$ ls -lu | awk '{ if ($6 == "Apr" || $6 == "May") print $9}'
backup.tar
badlogins.txt
Desktop
Documents
Downloads
examples.desktop
Music
nums.txt
Pictures
Public
sentences.txt
Templates
test.txt
Videos
osoolian_99521073@99521073:~$
```