

به نام خدا

تمرین جلسه هشتم

فرزان رحمانی ۹۹۵۲۱۲۷۱

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```
farzanrahmani_99521271@DESKTOP-955QSI1:~/hw1$ ls
farzanrahmani_99521271@DESKTOP-955QSI1:~/hw1$ touch q1_file.txt
farzanrahmani_99521271@DESKTOP-955QSI1:~/hw1$ vim q1_file.txt
farzanrahmani_99521271@DESKTOP-955QSI1:~/hw1$ ls
q1_file.txt
farzanrahmani_99521271@DESKTOP-955QSI1:~/hw1$ cat q1_file.txt
15 62 31
14 6953 12
1 9963 421
999 1 651
1436 279 15973
farzanrahmani_99521271@DESKTOP-955QSI1:~/hw1$ awk 'BEGIN { sum=0}; {sum += $2}; END {print "The sum of 2nd colmun is",sum }' q1_file.txt
The sum of 2nd colmun is 17258
farzanrahmani_99521271@DESKTOP-955QSI1:~/hw1$ awk 'BEGIN { sum=0;cnt=0};$1>2 { sum += $3;cnt++;} END {print "The Avg of 3rd colmun that 2nd of them is greater than 2 is",sum/cnt }' q1_file.txt
The Avg of 3rd colmun that 2nd of them is greater than 2 is 4166.75
farzanrahmani_99521271@DESKTOP-955QSI1:~/hw1$
```

بعد از اجرای دستور :vim q1_file.txt

```
farzanrahmani_99521271@DESKTOP-955QSI1:~/hw1$ vim q1_file.txt
15 62 31
14 6953 12
1 9963 421
999 1 651
1436 279 15973
-- INSERT --
5,15 ALL
```

```
farzanrahmani_99521271@DESKTOP-955QSI1:~/hw$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin)/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
systemd-timesync:x:102:104:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:103:106:/nonexistent:/usr/sbin/nologin
syslog:x:104:110:/home/syslog:/usr/sbin/nologin
_apt:x:105:65534:/nonexistent:/usr/sbin/nologin
tss:x:106:111:TPM software stack,,:/var/lib/tpm:/bin/false
uuidd:x:107:112:/run/uuidd:/usr/sbin/nologin
tcpdump:x:108:113:/nonexistent:/usr/sbin/nologin
sshd:x:109:65534:/run/sshd:/usr/sbin/nologin
landscape:x:110:115:/var/lib/landscape:/usr/sbin/nologin
pollinate:x:111:1:/var/cache/pollinate:/bin/false
farzan_rahmani:x:1000:1000,,:/home/farzan_rahmani:/bin/bash
rtkit:x:112:120:RealtimeKit,,:/proc:/usr/sbin/nologin
cups-pk-helper:x:113:122:user for cups-pk-helper service,,:/home/cups-pk-helper:/usr/sbin/nologin
geoclue:x:114:123:/var/lib/geoclue:/usr/sbin/nologin
dnsmasq:x:115:65534:dnsmasq,,:/var/lib/misc:/usr/sbin/nologin
pulse:x:116:124:PulseAudio daemon,,:/var/run/pulse:/usr/sbin/nologin
usbmux:x:117:46:usbmux daemon,,:/var/lib/usbmux:/usr/sbin/nologin
avahi:x:118:126:Avahi mDNS daemon,,:/var/run/avahi-daemon:/usr/sbin/nologin
saned:x:119:128:/var/lib/saned:/usr/sbin/nologin
colord:x:120:129:colord colour management daemon,,:/var/lib/colord:/usr/sbin/nologin
gdm:x:121:130:Gnome Display Manager:/var/lib/gdm3:/bin/false
farzanrahmani_99521271:x:1001:1001:Farzan Rahmani,,02177546250,989128357533:/home/farzanrahmani_99521271:/bin/bash
systemd-coredump:x:999:999:systemd Core Dumper:/usr/sbin/nologin
lxd:x:998:100:/var/snap/lxd/common/lxd:/bin/false
test1:x:1002:1003:/home/test1:/bin/sh
fwupd-refresh:x:122:132:fwupd-refresh user,,:/run/systemd:/usr/sbin/nologin
farzanrahmani_99521271@DESKTOP-955QSI1:~/hw$
```

از دستور `awk -F ":" '/^[a-k]/ && $3 >= 500 { print $1 }' /etc/passwd` استفاده می کنیم.

```
farzanrahmani_99521271@DESKTOP-955QSI1:~/hw$ awk -F ":" '/^[a-k]/ && $3 >= 500 { print $1 }' /etc/passwd
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
systemd-timesync:x:102:104:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:103:106:/nonexistent:/usr/sbin/nologin
syslog:x:104:110:/home/syslog:/usr/sbin/nologin
_apt:x:105:65534:/nonexistent:/usr/sbin/nologin
tss:x:106:111:TPM software stack,,:/var/lib/tpm:/bin/false
uuidd:x:107:112:/run/uuidd:/usr/sbin/nologin
tcpdump:x:108:113:/nonexistent:/usr/sbin/nologin
sshd:x:109:65534:/run/sshd:/usr/sbin/nologin
landscape:x:110:115:/var/lib/landscape:/usr/sbin/nologin
pollinate:x:111:1:/var/cache/pollinate:/bin/false
farzan_rahmani:x:1000:1000,,:/home/farzan_rahmani:/bin/bash
rtkit:x:112:120:RealtimeKit,,:/proc:/usr/sbin/nologin
cups-pk-helper:x:113:122:user for cups-pk-helper service,,:/home/cups-pk-helper:/usr/sbin/nologin
geoclue:x:114:123:/var/lib/geoclue:/usr/sbin/nologin
dnsmasq:x:115:65534:dnsmasq,,:/var/lib/misc:/usr/sbin/nologin
pulse:x:116:124:PulseAudio daemon,,:/var/run/pulse:/usr/sbin/nologin
usbmux:x:117:46:usbmux daemon,,:/var/lib/usbmux:/usr/sbin/nologin
avahi:x:118:126:Avahi mDNS daemon,,:/var/run/avahi-daemon:/usr/sbin/nologin
saned:x:119:128:/var/lib/saned:/usr/sbin/nologin
colord:x:120:129:colord colour management daemon,,:/var/lib/colord:/usr/sbin/nologin
gdm:x:121:130:Gnome Display Manager:/var/lib/gdm3:/bin/false
farzanrahmani_99521271:x:1001:1001:Farzan Rahmani,,02177546250,989128357533:/home/farzanrahmani_99521271:/bin/bash
systemd-coredump:x:999:999:systemd Core Dumper:/usr/sbin/nologin
lxd:x:998:100:/var/snap/lxd/common/lxd:/bin/false
test1:x:1002:1003:/home/test1:/bin/sh
fwupd-refresh:x:122:132:fwupd-refresh user,,:/run/systemd:/usr/sbin/nologin
farzanrahmani_99521271@DESKTOP-955QSI1:~/hw$
```

۳- با توجه به تاریخ زدن کد که ۱۶ ماه May بود از ۱۶ April تا ۱۶ May را فیلتر کردیم.
با دو دستور متفاوت نیز پیاده سازی کردیم.

```
farzanrahmani_99521271@DESKTOP-955QSI1: ~$ pwd
/home/farzanrahmani_99521271
farzanrahmani_99521271@DESKTOP-955QSI1: ~$ ls -l
total 32
drwxrwxr-- 5 farzanrahmani_99521271 farzanrahmani_99521271 4096 May  3 13:53 Desktop
-rw-rw-r-- 1 farzanrahmani_99521271 farzanrahmani_99521271 169 Apr  5 13:53 badlogins.txt
-rw-rw-r-- 1 farzanrahmani_99521271 farzanrahmani_99521271 114 Mar  4 00:11 grade.txt
drwxrwxr-x 2 farzanrahmani_99521271 farzanrahmani_99521271 4096 May  9 10:49 hw7
drwxrwxr-x 2 farzanrahmani_99521271 farzanrahmani_99521271 4096 May 16 22:29 hw8
-rw-rw-r-- 1 farzanrahmani_99521271 farzanrahmani_99521271  44 Apr  5 13:55 myfile.txt
-rw-rw-r-- 1 farzanrahmani_99521271 farzanrahmani_99521271 981 May  1 23:42 people
-rw-rw-r-- 1 farzanrahmani_99521271 farzanrahmani_99521271  20 May  2 00:15 test.txt
farzanrahmani_99521271@DESKTOP-955QSI1: ~$ ls -l | awk '($6 == "May") || ( ($6 == "Apr") && $7 > 16) {print $9}'
Desktop
hw7
hw8
people
test.txt
farzanrahmani_99521271@DESKTOP-955QSI1: ~$ ls -l | awk '($6 ~ /May/) || ( ($6 ~ /Apr/) && $7 > 16) {print $9}'
Desktop
hw7
hw8
people
test.txt
farzanrahmani_99521271@DESKTOP-955QSI1: ~$
```

May 16

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