OUTPUTS

a)

```
$ echo "$SHELL"
/bin/bash
$ ps
    PID TTY          TIME CMD
   3169 pts/0    00:00:00 bash
   3899 pts/0    00:00:00 ps
```

b)

```
$ ps | tail+2
tail+2: command not found
$ ps | tail +2
   3169 pts/0    00:00:00 bash
   3930 pts/0    00:00:00 ps
   3931 pts/0    00:00:00 tail
```

c)

```
$ ps | sort -d | head -n 6
  25717 pts/0    00:00:00 ps
  25718 pts/0    00:00:00 sort
  25719 pts/0    00:00:00 head
   3169 pts/0    00:00:00 bash
    PID TTY          TIME CMD
```

d)

```
$ cat > 1.txt
MCA HITK
^C
$ cat > 2.txt
mca hitk
^C
ls | grep -i "mca hitk"
1.txt
2.txt
```

e)

```
$ cat > mca1.txt

mca
^C
$ cat > mca2.txt
mca
mca
^C
$ cat > mca3.txt
mca
mca
mca
^Z
[1]+  Stopped                     cat > mca3.txt
$ grep -c 'mca' mca1.txt mca2.txt mca3.txt > op.txt
$ cat op.txt
mca1.txt:1
mca2.txt:2
mca3.txt:3
```

f)

```
$ who | grep -c ".*"
1
```

g)

```
$ cat > t.txt
Hello

World


!
^C
$ grep -v "^$" t.txt
Hello
World
!
```

h)

```
$ chmod 000 op.txt
$ find . -type f ! -perm -200
./op.txt
```

i)

```
$ cat > 1.txt
cat.
.cat
.cat.
^C
$ grep "^\..*\.$" 1.txt
.cat.
```

j)

```
$ grep "^.\{0,99\}$" *
1.txt:cat.
1.txt:.cat
1.txt:.cat.
2.txt:mca hitk
```