

```
stephen@stephen-Inspiron-3521:~/OS$ cat good
goodness
goodlier
goodwills
goodwives
goodies
goodbyes
wellness
morning
sun
stephen@stephen-Inspiron-3521:~/OS$ grep "good" good
goodness
goodlier
goodwills
goodwives
goodies
goodbyes
stephen@stephen-Inspiron-3521:~/OS$ grep -n "good" good
1:goodness
2:goodlier
3:goodwills
4:goodwives
5:goodies
6:goodbyes
stephen@stephen-Inspiron-3521:~/OS$ grep -vn "good" good
7:wellness
8:morning
9:sun
stephen@stephen-Inspiron-3521:~/OS$ grep -i "good" good
goodness
goodlier
goodwills
goodwives
goodies
goodbyes
stephen@stephen-Inspiron-3521:~/OS$ grep -c "good" good
6
stephen@stephen-Inspiron-3521:~/OS$
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stephen@stephen-Inspiron-3521:~/OS$ cat person
ajay manager account 45000
sunil clerk account 25000
varun manager sales 50000
amit manager account 47000
tarun peon sales 15000
deepak clerk sales 23000
sunil peon sales 13000
satvik director purchase 80000
stephen@stephen-Inspiron-3521:~/OS$ awk '{print}' person
ajay manager account 45000
sunil clerk account 25000
varun manager sales 50000
amit manager account 47000
tarun peon sales 15000
deepak clerk sales 23000
sunil peon sales 13000
satvik director purchase 80000
stephen@stephen-Inspiron-3521:~/OS$ awk '/account/{print}' person
ajay manager account 45000
sunil clerk account 25000
amit manager account 47000
stephen@stephen-Inspiron-3521:~/OS$ awk '{print $1,$4}' person
ajay 45000
sunil 25000
varun 50000
amit 47000
tarun 15000
deepak 23000
sunil 13000
satvik 80000
stephen@stephen-Inspiron-3521:~/OS$

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stephen@stephen-Inspiron-3521:~/OS$ awk '{print NR}' person
1
2
3
4
5
6
7
8
stephen@stephen-Inspiron-3521:~/OS$ awk '{print NR,$0}' person
1 ajay manager account 45000
2 sunil clerk account 25000
3 varun manager sales 50000
4 amit manager account 47000
5 tarun peon sales 15000
6 deepak clerk sales 23000
7 sunil peon sales 13000
8 satvik director purchase 80000
stephen@stephen-Inspiron-3521:~/OS$ awk '{print NR,$1,$2}' person
1 ajay manager
2 sunil clerk
3 varun manager
4 amit manager
5 tarun peon
6 deepak clerk
7 sunil peon
8 satvik director

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stephen@stephen-Inspiron-3521:~/OS$ awk 'NR==3 NR==7 {print}' person
stephen@stephen-Inspiron-3521:~/OS$ awk 'NR==3 NR==7 {print NR,$0}' person
stephen@stephen-Inspiron-3521:~/OS$ awk 'NR==3, NR==7 {print NR,$0}' person
3 varun manager sales 50000
4 amit manager account 47000
5 tarun peon sales 15000
6 deepak clerk sales 23000
7 sunil peon sales 13000
stephen@stephen-Inspiron-3521:~/OS$ awk 'NR==3, NR==7 {print NR,$1,$4}' person
3 varun 50000
4 amit 47000
5 tarun 15000
6 deepak 23000
7 sunil 13000
stephen@stephen-Inspiron-3521:~/OS$ awk 'NR==3, NR==7 {print NR,$3}' person
3 sales
4 account
5 sales
6 sales
7 sales

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stephen@stephen-Inspiron-3521:~/OS$ awk '{print $1,$NF}' person
ajay 45000
sunil 25000
varun 50000
amit 47000
tarun 15000
deepak 23000
sunil 13000
satvik 80000
stephen@stephen-Inspiron-3521:~/OS$ awk '{print $3,$NF}' person
account 45000
account 25000
sales 50000
account 47000
sales 15000
sales 23000
sales 13000
purchase 80000

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stephen@stephen-Inspiron-3521:~/OS$ cat person
ajay manager account 45000
sunil clerk account 25000
varun manager sales 50000
amit manager account 47000
tarun peon sales 15000
deepak clerk sales 23000
sunil peon sales 13000
satvik director purchase 80000
stephen@stephen-Inspiron-3521:~/OS$ awk '{ if ( length($0) > max ) max = length($0) END print max}' person
awk: line 1: missing } near END
awk: line 1: extra '}'
awk: line 2: syntax error at or near end of file
stephen@stephen-Inspiron-3521:~/OS$ awk '{ if ( length($0) > max ) max = length($0) } END {print max}' person
30
stephen@stephen-Inspiron-3521:~/OS$ awk 'END {print NR}' person
8
stephen@stephen-Inspiron-3521:~/OS$ awk 'BEGIN { for(i=1, i<=6, i++) print "Square of ",i," is ",(i*i)}' person
awk: line 1: syntax error at or near ,
stephen@stephen-Inspiron-3521:~/OS$ awk 'BEGIN { for(i=1, i<=6, i++) print "Square of ",i," is ",(i*i);}' person
awk: line 1: syntax error at or near ,
stephen@stephen-Inspiron-3521:~/OS$ awk 'BEGIN { for(i=1, i<=6, i++) print "Square of ",i," is ",(i*i);}'
awk: line 1: syntax error at or near ,
stephen@stephen-Inspiron-3521:~/OS$ awk 'BEGIN { for(i=1; i<=6; i++) print "Square of ",i," is ",(i*i);}'
Square of 1 is 1
Square of 2 is 4
Square of 3 is 9
Square of 4 is 16
Square of 5 is 25
Square of 6 is 36
stephen@stephen-Inspiron-3521:~/OS$

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stephen@stephen-Inspiron-3521:~/OS$ cat geekfile
unix is great os. unix is opensource. unix is free os.
learn operating system.
unix linux which one you choose.
unix is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.
stephen@stephen-Inspiron-3521:~/OS$ sed 's/unix/linux/' geekfile
linux is great os. unix is opensource. unix is free os.
learn operating system.
linux linux which one you choose.
linux is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.
stephen@stephen-Inspiron-3521:~/OS$ sed 's/unix/linux/3' geekfile
unix is great os. unix is opensource. linux is free os.
learn operating system.
unix linux which one you choose.
unix is easy to learn.unix is a multiuser os.Learn linux .unix is a powerful.
stephen@stephen-Inspiron-3521:~/OS$ sed 's/unix/linux/g' geekfile
linux is great os. linux is opensource. linux is free os.
learn operating system.
linux linux which one you choose.
linux is easy to learn.linux is a multiuser os.Learn linux .linux is a powerful.
stephen@stephen-Inspiron-3521:~/OS$

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stephen@stephen-Inspiron-3521:~/OS$ echo "Welcome to Unix Operating System" | sed 's/\(\b[A-Z]\)\(\b[0-9]\)/g'
(W)elcome to (U)nix (O)perating (S)ystem
stephen@stephen-Inspiron-3521:~/OS$
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stephen@stephen-Inspiron-3521:~/OS$ cat geekfile
unix is great os. unix is opensource. unix is free os.
learn operating system.
unix linux which one you choose.
unix is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.
stephen@stephen-Inspiron-3521:~/OS$ sed 's/unix/linux/p' geekfile
linux is great os. unix is opensource. unix is free os.
linux is great os. unix is opensource. unix is free os.
learn operating system.
linux linux which one you choose.
linux linux which one you choose.
linux is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.
linux is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.
stephen@stephen-Inspiron-3521:~/OS$
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stephen@stephen-Inspiron-3521:~/OS$ cat geekfile
unix is great os. unix is opensource. unix is free os.
learn operating system.
unix linux which one you choose.
unix is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.
stephen@stephen-Inspiron-3521:~/OS$ sed '2d' geekfile
unix is great os. unix is opensource. unix is free os.
unix linux which one you choose.
unix is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.
stephen@stephen-Inspiron-3521:~/OS$
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