

## More complex examples of AWK

# Add up first column, print sum and average:

```
{ s += $1 }  
END { print "sum is", s, " average is", s/NR }
```

# Print fields in reverse order:

```
awk '{ for (i = NF; i > 0; --i) print $i }' file
```

# Print the last line

```
{line = $0}  
END {print line}
```

# Print the total number of lines that contain the word Pat

```
/Pat/ {nlines = nlines + 1}  
END {print nlines}
```

# Print all lines between start/stop pairs:

```
awk '/start/, /stop/' file
```

# Print all lines whose first field is different from previous one:

```
awk '$1 != prev { print; prev = $1 }' file
```

# Count number of lines where col 3 > col 1

```
awk '$3 > $1 {print i + "1"; i++}' file
```

# Print every line after erasing the 2nd field

```
awk '{$2 = ""; print}' file
```

# the field separator is `|` instead of blank

```
awk -F'|' '$2=="Jones"{print $4}' filename
```

# using array in AWK

```
ls -l | awk 'BEGIN{i=1} {array[i]+=$5} END{print array[i]}'
```

```
ls -l | awk 'BEGIN{i=1} {array[i]+=$5; i++} END{print i array[i]}'
```

# Find maximum and minimum values present in column 1

```
NR == 1 {m=$1 ; p=$1}  
$1 >= m {m = $1}  
$1 <= p {p = $1}  
END { print "Max = " m, " Min = " p }
```