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CIS 245

Awk Assignment

2/5/2022

What is Awk?

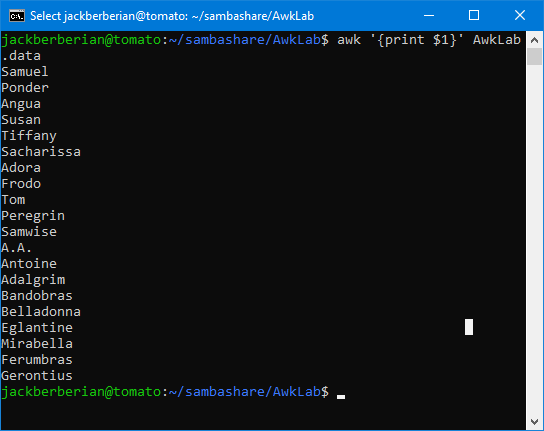
Similar to sed, …..

How to Use Awk

1. Print all the First Names

Awk ‘{print $1}’ awklab.data

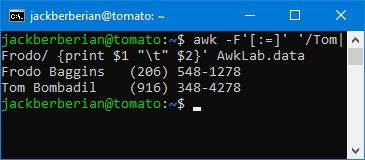
Here, we can use awk to just print the first names of people.



1. Print phone numbers for Tom and Frodo after their names

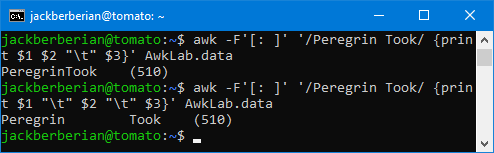
awk -F'[:=]' '/Tom|Frodo/ {print $1 "\t" $2}' AwkLab.data

Here we can use awk to just print the phone numbers for Tom and Frodo.



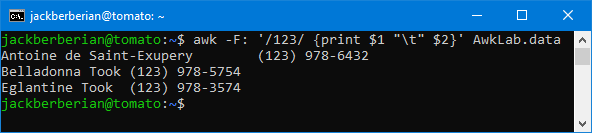
1. Print Peregrin’s full name and phone number area code only.

awk -F: '/Peregrin/ {print $1 "\t" $2}' awklab.data

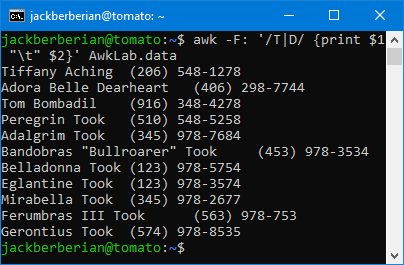


1. Print all phone numbers in the 123 area code along with the names.

Awk -F: ‘/123/ {print $1 “\t” $2}’ AwkLab.data



1. Print all Last Names beginning with either a T or D

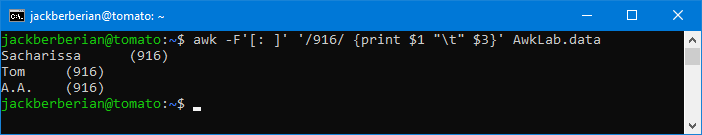
awk -F: '/T|D/ {print $1 "\t" $2}' AwkLab.data

1. Print all first names containing four or less characters

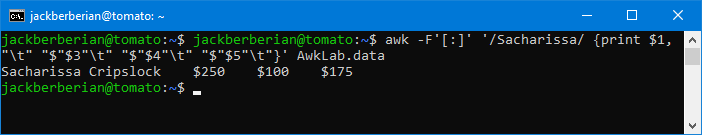
awk '{print substr ($1, 0 , 4)}' datebook

1. Print the first names and area codes of all those in the 916 area code.

awk -F’[:]’ ‘/916/ {print $1 “\t” $2}’ AwkLab.data



1. Print Sacharissa’s campaign contributions following her name. Each value should be printed with a leading dollar sign; e.g., $250 $100 $175



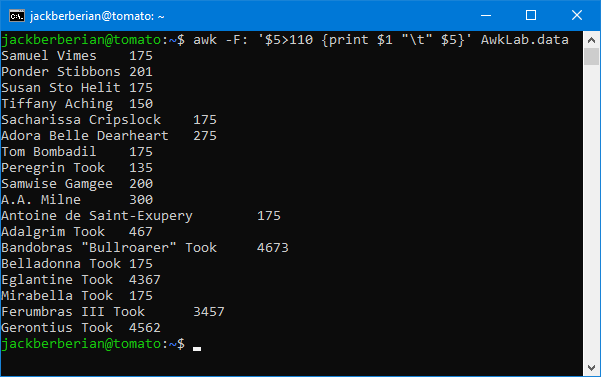
1. Print last names followed by a comma and the phone number. Be careful of the last name’s format.

awk -F'[ :]' '/ ()/ {print $2 "," $3}' AwkLab.data

awk -F'[ ]' '/ ()/ {print $1 "," $2}' AwkLab.data

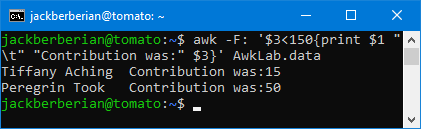
1. Print the first and last names of those who contributed more than $110 in the last month. Make sure to include their last month contribution amount after the name.

awk -F: ‘$5>110 {print $1 “/t” $5}’ awklab.data



1. Print the last names, phone numbers, and first month contribution of those who contributed less than $150 in the first month.

awk -F: '$3<150{print $1 "\t" "Contribution was:" $3}' awklab.data’

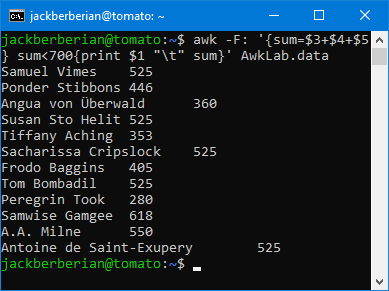


1. Print the first names and contribution of those who contributed between $75 and $150 in the first month.

awk -F: ‘$3<150&&$3>75 {print $1 “The First Month’s Contribution was:” $3}’ awklab.data

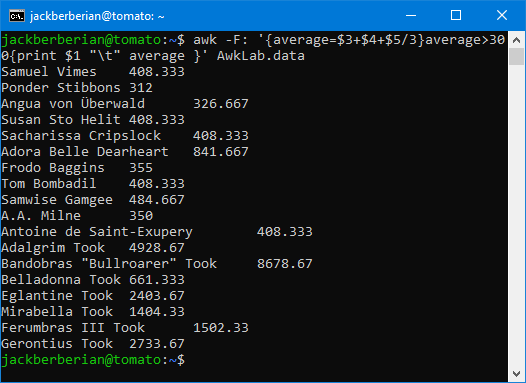
1. Print the first and last names and total contributions of those who contributed less than $700 over the three-month period.

awk -F: '{sum=$3+$4+$5} sum<700{print $1 "\t" sum}' awklab.data



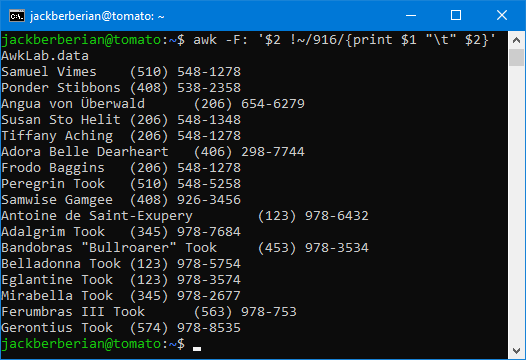
1. Print the first names and first letter of the last name, and average contribution of those who had an average contribution of more then $300

awk -F: '{average=$3+$4+$5/3}average>100{print $1 "\t" average }' awklab.data



1. Print the last name of those not in the 916 area code.

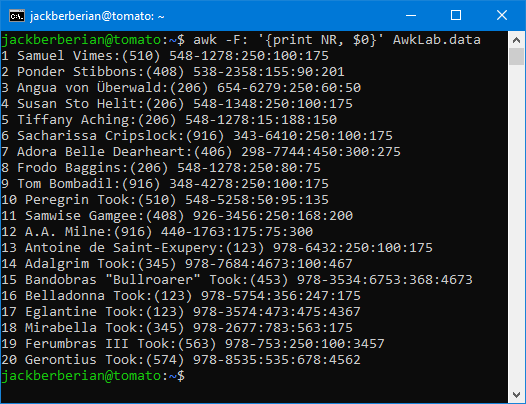
awk -F: '$2 !~/916/{print $1 "\t" $2}' awklab.data



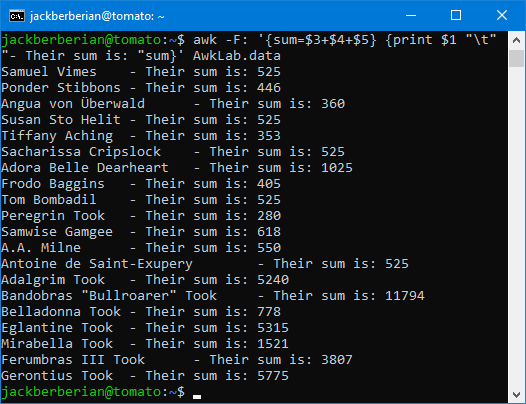
!~/916/ means it is pattern matching for whatever does not match 916. Similar format as before for the rest.

1. Print each record preceded by the number of the record.

awk -F: ‘{print NR, $0}’ awklab.data



1. Print the name and total contribution of each person.



awk -F: '{sum=$3+$4+$5} {print $1 "|Their sum is: "sum}' awklab.data

1. Add $10 to Tiffany Aching's first contribution.

awk -F: ‘/Tiffany/ {contribution=$3+10} {print contribution} awklab.data

1. Change Samwise Gamgee's name to Sean Astin

awk '{gsub(/Samwise Gamgee/,"Sean Astin")} {print $1}' awklab.data

1. Write an awk script to do the following (MUST be an awk script not just a bash script or commands on the commandline)
2. Prints first name of the all the Tooks followed by their total campaign contributions .
3. Prints "Bullroarer"'s contributions after his name
4. Prints all the names and last month's contribution of those who contributed over $175 for their last contribution