

# CSCI Assignment 6

100 points

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## Purpose

This assignment should give you experience in AWK programming.

## Assignment

Write an awk script that implements a report writer.

## Program

The report computes summary data on the performance of sales associates for our company "No-op Computing.".

The awk script file name must be "z123456.list" where z123456 is your Z-id number.

The script should compute the sale amounts per associate for the year 2013 and print them in a sorted list ranked according to the sales amount.

The awk script is invoked from the command line with an inputfile that contains data on products, associates and sales, possibly for multiple years:

```
awk -f z123456.list inputfile
```

## Input

A sample input file can be found in the data section of the course web site.

The lines in the input file use ":" as field separator. There are 3 types of lines in the file:

1. lines that describe products have the following fields:
  - product id: an integer number
  - product category: alphanumeric text
  - description: alphanumeric text
  - price: floating point number, with 2 significant digits
2. lines that describe associates have the following fields:
  - associate id: an integer number
  - name: alphanumeric text
  - position: alphanumeric text
3. lines that describe sales have the following fields:
  - transaction id: an integer number
  - product id: an integer number
  - quantity: an integer number
  
  - date: in the form of mm/dd/yyyy
  - associate id: an integer number

## Error Checking

If any error is encountered, such as incorrect data in the input file, just skip the line in question. Nothing further needs to be done to recover and use the values of the line.

## Output

```
% awk -f z123456.list inputfile11
No-op Computing
2013 Sales Associates Ranking
Name           Position      Sales Amount
=====
Buck, Fast     Developer    2628.80
Rush, George   Salesman     1051.77
Worker, Susan  Developer    360.00
Doe, John      Clerk        134.01
Lindon, Rosemary Producer     31.00
Miller, Dennis Comedian     9.90
%
```

## Other Points

- make sure that your assignment is contained in a single file called "z123456.list" based on your Z-id
- Make sure that your awk script runs fine on Linux, turing or hopper.
- Make sure that your script file is a regular Unix text file. Don't add an extension (such as .txt) to the file name. Don't modify your file on Windows using notepad, it will add extra ^M characters at the end of each line.