# **GAWK**

#### **RECALL**:

```
BEGIN { ... initialization gawk statements ... } gawk commands to run on each line of the file END { ... finalization gawk statements ... }
```

each command has the form:

```
pattern { action }
```

 action = one or more statements enclosed in braces

## **ASSOCIATIVE ARRAYS**

- do not need to initialize
- simply refer to elements

$$ex: arr[$1] = 1$$

- can test for inclusion:
  - ex:2 in arr
  - tests if 2 is a key in arr

#### **FUNCTIONS**

- length(str) = number of characters
- int (num) = integer portion of num (not rounded)
- index(str1,str2) = starting index of str2 in str1 (1-based indexing)
- split(str,arr,del) = split str by del, place elements in arr (returns number of elements)
- mathematical functions are also available

# **FUNCTIONS (CONT.)**

- sprinft(fmt, args) = string formatting
- substr(str,pos,len) = access substring
- tolower(str) = convert to lowercase
- toupper(str) = convert to uppercase

## OTHER PREDEFINED VARIABLES

- OFS = output field separator (default space)
- ORS = output record separator (defualt newline)
- RS = input record separator (default newline)