AWK

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

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)

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