

## Part 3.1

Cut command:

Added constants to use for list initialization:

```
#define MAX_LINE_LENGTH 4096  
...
```

Example workflow of the code for \$ cat /etc/passwd | cut -d ":" -f1,6

Step 1 - Parse Arguments:

```
command->args = ["cut", "-d", ":", "-f", "1,6", NULL]
```

Check for '-d' sets delimiter to :

Check for '-f' sets fields = "1,6"

Step 2 - Parse fields list:

- fields\_copy = "1,6"
- strtok splits
- fields[0] = 1
- fields[1] = 6
- field\_count = 2

Step 3 -

Read first line from stdin with **fgets**

newline removed

Step 4 -

Line split by delimiter

Loop scans the characters and puts elements into parts[] list

Step 5 -

Requested fields are printed

Step 6 -

fgets reads next line and repeats steps until EOF

so lines are read till no more input