Sed Stuff

I use this a lot in my scripts - it is about time I keep a proper reference page for it.

Basic Manipulation

Append specific line

```
sed '1a this_line' test.txt
```

Remove all comments before 'start' and after 'stop' lines

```
sed -e '1,/start/ s/#.*//' -e '/stop/,$ s/#.*//'
```

Insert text `this_line` in file `test.txt` ***BEFORE*** a match (e.g. line starting with `find=`). ***Note****: use -i to actually change the file*

```
sed '/^find=.*/i this_line' test.txt
```

Insert text `this_line` in file `test.txt` ***AFTER*** a match (e.g. line starting with `find=`).

```
sed '/^find=.*/a this_line' test.txt
```

Insert text `this_line` in file `test.txt` ***IN-PLACE*** of a match (e.g. line starting with `find=`).

```
sed 's/^find=.*$/this_line/' test.txt
```

Slightly Advanced

Modify the line ***AFTER*** a match

```
sed '/^find=.*/!b;n;s/^\(.*\)=\(.*\)$/\1=changed/' test.txt
```

Note *The !b tells sed to break current processing and n starts the next line*

Prints lines in between two lines starting with — `CLUS` (excluding matching lines)

```
sed -n "/^-- CLUS:{$pick/,/^-- CLUS/{/^-- CLUS/!p}" test.txt
```

more... coming soon...

Sed codes

Dumped

```
sed

:  # label
=  # line_number
a  # append_text_to_stdout_after_flush
b  # branch_unconditional
c  # range_change
d  # pattern_delete_top/cycle
D  # pattern_ltrunc(line+nl)_top/cycle
g  # pattern=hold
G  # pattern+=nl+hold
h  # hold=pattern
H  # hold+=nl+pattern
i  # insert_text_to_stdout_now
l  # pattern_list
n  # pattern_flush=nextline_continue
N  # pattern+=nl+nextline
p  # pattern_print
P  # pattern_first_line_print
q  # flush_quit
r  # append_file_to_stdout_after_flush
s  # substitute
t  # branch_on_substitute
w  # append_pattern_to_file_now
x  # swap_pattern_and_hold
y  # transform_chars

sed -n '/^\[[0-9]*\]$/{h;:l;n;s/^$//;td;s/^{[0-9]*}$//;td;H;bl;:d;x;p;q}'

sed -n '/^\[[0-9]*\]$/{h};/^{[0-9]*}$/{x;p;x;p}'

sed -n '/^\[[0-9]*\]$/{h};/^{[0-9]*}$/{x;s/\n/
/g;Ts;p;s/^\(\[[0-9]*\]\).*$/\1/;:s;G;x;d};/^$/{x;s/\n/ /g;p;d};${x;s/\n/
/g;p;d};/^@/{H};/^#/{H};/^+/{H}'
```

My old notes - will sort this later

sed-notes

```
# convert text file into c string
sed -e 's/\\/\\\\/g;s/"/\\"/g;s/\t/\\t/g;s/^/"/;s/$/\\n"/' <file>

# something else... with explanation
```

```
sed -n '/## Screensh/,/##/{/Scree/{p;n};/##/{q};p}' file

-n                  -> not print
'/## Screen/, /##/ -> match range, I guess you knew it already
{                   -> if in this range
    /Scree/         -> and line matches /Screenshot/
        {p;n};      -> do print line, and read next row (skip doing rest
processing)
    /##/            -> if line matches "##"
        q;          -> quit, we have done all printing
    p               -> if we come to here, print the line
}
```

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