SED substitutions

WE'LL COVER THE FOLLOWING

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Some important SED options

The format for the substitute command is as follows:

[address1[,address2]]s/pattern/replacement/[flags]

The flags can be any of the following:

- n replace nth instance of pattern with replacement
- g replace all instances of pattern with replacement
- p write pattern space to STDOUT if a successful substitution takes place
- w file Write the pattern space to file if a successful substitution takes place
- i match REGEXP in a case-insensitive manner.

We can use different delimiters (one of @ %; :) instead of /. If no flags are specified the first match on the line is replaced. note that we will almost always use the s command with either the g flag or no flag at all.

If one address is given, then the substitution is applied to lines containing that address. An address can be either a regular expression enclosed by forward slashes <code>/regex/</code>, or a line number . The <code>\$</code> symbol can be used in place of a line number to denote the last line. If two addresses are given separated by a comma, then the substitution is applied to all lines between the two lines that match the pattern.

Example 1: substitute only third occurrence of a word sed s//3

, 500. 5, 50.00, 5=6 50.00, 5 0.0.00.1==0

Example 2: print and write to a file sed s//gpw

```
$ sed -n 's/Data/Big-Data/gpw output' datafile
```

Some important SED options #

```
Option: -n, --quiet or --silent
```

The "-n" option will not print anything unless an explicit request to print is found:

```
sed -n 's/PATTERN/&/p' file
```

Option: -e

Combines multiple commands:

```
sed -e 's/a/A/' -e 's/b/B/' file
```

Option: -f

If you have a large number of sed commands, you can put them into a file and use

```
sed -f sedscript file
```

Option: -r

Extended regular expressions (ERE) have more power, but SED them normal characters. Therefore you must explicitly enable this extension with a command line option.

```
% echo "123 abc" | sed -r 's/[0-9]+/& &/'
123 123 abc
```

Option: -i

Substitutions a re performed in-place, on the file which was fed to SED:

```
sed -i 's/^/\t/' *.txt
```

