### SED COMMAND EXAMPLES

### 1. To remove a specific character, say 'a'

```
$ sed 's/a//' file
Linux
Solris
Ubuntu
Fedor
RedHt
```

This will remove the first occurrence of 'a' in every line of the file. To remove all occurrences of 'a' in every line,

```
$ sed 's/a//g' file
```

### 2. To remove 1st character in every line:

```
$ sed 's/^.//' file
inux
olaris
buntu
edora
edHat
```

.(dot) tries to match a single character. The ^ tries to match a pattern(any character) in the beginning of the line. Another way to write the same:

```
$ sed 's/.//' file
```

This tells to replace a character with nothing. Since by default, sed starts from beginning, it replaces only the 1st character since 'g' is not passed.

#### 3. To remove last character of every line :

```
$ sed 's/.$//' file
Linu
Solari
Ubunt
Fedor
RedHa
```

The \$ tries to match a pattern in the end of the line.

# 4. To remove the 1st and last character of every line in the same command:

```
$ sed 's/.//;s/.$//' file
inu
olari
bunt
edor
edHa
```

Two commands can be given together with a semi-colon separated in between.

### **5.** To remove first character only if it is a specific character:

```
$ sed 's/^F//' file
Linux
Solaris
Ubuntu
edora
RedHat
```

This removes the 1st character only if it is 'F'.

### **6.** To remove last character only if it is a specific character:

```
$ sed 's/x$//' file
Linu
Solaris
Ubuntu
Fedora
RedHat
```

This removed the last character only if it s 'x'.

### 7. To remove 1st 3 characters of every line:

```
$ sed 's/...//' file
ux
aris
ntu
ora
Hat
```

A single dot(.) removes 1st character, 3 dots remove 1st three characters.

#### 8. To remove 1st n characters of every line:

```
$ sed -r 's/.{4}//' file
x
ris
tu
ra
at.
```

.{n} -> matches any character n times, and hence the above expression matches 4 characters and deletes it.

#### 9. To remove last n characters of every line:

```
$ sed -r 's/.{3}$//' file
Li
Sola
Ubu
Fed
Red
```

# 10. To remove everything except the 1st n characters in every line:

```
$ sed -r 's/(.{3}).*/\1/' file Lin Sol Ubu Fed Red
```

.\* -> matches any number of characters, and the first 3 characters matched are grouped using parantheses. In the replacement, by having \1 only the group is retained, leaving out the remaining part.

### 11. To remove everything except the last n characters in a file:

```
\$ sed -r 's/.*(.{3})/\1/' file nux
```

```
ris
ntu
ora
Hat
```

Same as last example, except that from the end.

### 12. To remove multiple characters present in a file:

```
$ sed 's/[aoe]//g' file
Linux
Slris
Ubuntu
Fdr
RdHt
```

To delete multiple characters, [] is used by specifying the characters to be removed. This will remove all occurences of the characters a, o and e.

### **13.** To remove a pattern:

```
$ sed 's/lari//g' file
Linux
Sos
Ubuntu
Fedora
RedHat
```

Not just a character, even a pattern can be removed. Here, 'lari' got removed from 'Solaris'.

### 14. To delete only nth occurrence of a character in every line:

```
$ sed 's/u//2' file
Linux
Solaris
Ubunt
Fedora
RedHat
```

By default, sed performs an activity only on the 1st occurence. If n is specifed, sed performs only on the nth occurence of the pattern. The 2nd 'u' of 'Ubuntu' got deleted.

#### 15. To delete everything in a line followed by a character:

```
$ sed 's/a.*//' file
Linux
Sol
Ubuntu
Fedor
RedH
```

#### 16. To remove all digits present in every line of a file:

```
$ sed 's/[0-9]//g' file
```

[0-9] stands for all characters between 0 to 9 meaning all digits, and hence all digits get removed.

### 17. To remove all lower case alphabets present in every line:

```
$ sed 's/[a-z]//g' file
L
S
```

```
U
F
RH
```

[a-z] represents lower case alphabets range and hence all lower-case characters get removed.

# 18. To remove everything other than the lower case alphabets:

```
$ sed 's/[^a-z]//g' file
inux
olaris
buntu
edora
edat
```

^ inside square brackets negates the condition. Here, all characters except lower case alphabets get removed.

# 19. To remove all alpha-numeric characters present in every line:

```
$ sed 's/[a-zA-Z0-9]//g' file
```

All alpha-numeric characters get removed.

### **20.** To remove a character irrespective of the case:

```
$ sed 's/[uU]//g' file
Linx
Solaris
bnt
Fedora
RedHat
```

By specifying both the lower and upper case character in brackets is equivalent to removing a character irrespective of the case.