

SED - Tutorial

- Sed is nothing but Stream Editor
- Simple commands = pattern + action.
- If no pattern is given, the action is applied to all lines, otherwise it is applied only to lines matching the pattern.
- This command modifies lines from the specified File according to an edit script and writes them to standard output.
- The sed command includes many features for selecting lines to be modified and making changes only to the selected line

Example: For replacing the word in a file

```
cat file
    I have three dogs and two cats
+ sed -e 's/dog/cat/g' -e 's/cat/elephant/g' file
+ sed -e 's/dog/cat/g' -e 's/cat/elephant/g' file
    I have three elephants and two elephants
```

Example : For writing in to the file

```
+ sed -i '2iWorking in Emertxe' filename
    cat filename
    My name is Srinivas
    Working in Emertxe
it will write in the 2 line in the filename with " Working in Emertxe "

+ sed -i "2i/srinivas reddy" filenameeed
    This will writes string in the second line
```

Example : For printing the number of lines from the given file

```
+ sed -n '1p' filename
    prints the starting line from the file

+ sed -n '1,np' filename
    prints the n number of lines from a file
```

Example : For Deleting the lines from the given file

```
+ sed -i '1d' filename
    which will delete the first line in a filename

+ sed -i '1,nd' filename
    which will delete n no of lines

+ sed -i '$d' filename
    Which deletes the last line from the bunch of a file
```

```
+ sed -i '/dolphin/d' filename
```

Delete all the lines that contain the word "dolphin" from the file

Example : For Deleting empty lines from the file

```
+ sed '/^$/d' file
```

Extra Options to approach :

```
+ $d # delete the last line of the file
```

```
+ /[0-9]{3}/p # print lines with 3 consecutive digits
```

```
+ 5!s/ham/cheese/ # except on line 5, replace 'ham' with 'cheese'
```

```
+ /awk!/s/aaa/bb/ # unless 'awk' is found, replace 'aaa' with 'bb'
```

```
+ 17,/foo/d # delete all lines from line 17 up to 'foo'
```