



## SED Commands

**How to show only a given line or range of lines?**

```
sed -n '1p' file_name  
sed -n '1,5p' file_name  
sed -n '$p' file_name
```

**How to see all the users from India Country?**

```
sed -n '/India/p' file_name
```

**How to use multiple expression in sed command?**

Example: If you wanna only see 2 and 5th line

```
sed -n -e '2p' -e '5p' file_name
```

**How to see all the users from India and Germany?**

```
sed -n -e '/India/p' -e '/Germany/p' file_name
```

**How to see next 4 lines from 2nd line?**

```
sed -n '2,+4p' file_name
```

**How to see every 2nd line from first line?**

```
sed -n '1~2p' file_name
```

**How to read expression from external file?**

```
sed -f ex_file file_name
```

**How to replace a word in a file and show?**

```
sed 's/<string_to_change>/<new_string>/g' file_name
```

**How to replace a word in a file and show except a given line or only in given line?**

```
sed '5 s/<string_to_change>/<new_string>/g' file_name
```

```
sed '5! s/<string_to_change>/<new_string>/g' file_name
```

**How to replace a word and and edit in your file?**

```
sed -i's/<string_to_change>/<new_string>/g' file_name
```

**How to change salary or country of a user (Paul)?**

```
sed '/Paul/ s/25000/35000/g' file_name
```

```
sed '/Paul/ s/India/US/g' file_name
```

**How to delete a line?**

```
sed '1d' file_name (to delete first line)
```

```
sed '1,2d' file_name
```

```
sed '$d' file_name
```

**How to delete user from India country?**

```
sed '/India/d' file_name
```

**How to delete empty line?**

```
sed '/^$/d' file_name
```

**How to replace tab with space?**

```
sed 's/\t/ /g' file_name
```

**How to copy output of sed command in separate file?**

```
sed -n '/India/ w new_file_name' file_name
```

**How to add new line after a given line no.?**

```
sed '5 a new_text' file_name
```

**How to add new line after a given string, so it will add text after Paul?**

```
sed '/Paul/ a new_text' file_name
```

**How to edit existing line instead of adding new line?**

```
sed '5 c new_text' file_name (it will add text at line 5)
```

**How to add new line before a given string, so it will add text before Paul?**

```
sed '/Paul/ i new_text' file_name
```

**How to see the hidden characters?**

```
sed -n 'l' file_name
```

**How to wrap your file content with given no. of characters?**

```
sed -n 'l 50' file_name
```

**How to read content from a file and use in our command?**

```
sed '3 r externalfile' file_name
```

**How to stop execution of sed command as soon as first occurrence found?**

```
sed '/India/ q' file_name
```

```
sed '5 q' file_name (stop execution at line 5)
```

**How to provide exit status for your sed command?**

```
sed '/India/ q 100' file_name
```

**How to execute external command line date in your expression?**

```
sed '2 e date' file_name
```

**How to see the line number in file?**

```
sed '=' file_name
```

## SED Regular Expressions

**^** start of line

**\$** end of line

**.** single character

**[]** match character set

**[^]** exclusive Set

**\*** zero or more occurrence

examples:

```
sed -n '/^2/p' file_name
```

```
sed -n '/ia$/p' file_name
```

**How to find a 5 letter name which start with S and end with a?**

```
sed -n '/^S...a$/p' names
```

**How to find names start with V?**

```
sed -n '/^V/p' names
```

**How to find names end with a?**

```
sed -n '/a$/p' names
```

**How to use wild card?**

```
ls -ltr *.txt
```

**How to see names start with only A and C?**

```
sed -n '/[AC]/p' names
```

```
sed -n '/[AC]/p' names
```

**How to see names start with only A to D?**

```
sed -n '/^[A-D]/p' names
```

## POSIX Classes

Example: sed -n '/[:alpha:]/p' posix

```
[:alnum:]
```

```
[:alpha:]
```

```
[:digit:]
```

```
[:blank:]
```

```
[:lower:]
```

```
[:upper:]
```

```
[:punct:]
```

```
[:space:]
```