

# 'Sed' command #4



**Sed** is a popular utility which enables quick parsing and transformation of text.

Here are some very simple examples of **sed** in action.

Substitute the first occurrence of 'editor' with 'tool'.

```
`$:/hackerrank/bash/grep/grep1$` echo "My favorite programming editor is Emacs. Another editor I like is Vim." | sed -e s/editor/tool/
My favorite programming tool is Emacs. Another editor I like is Vim.
```

Substitute all the occurrences of 'editor' with 'tool'.

```
`$:/hackerrank/bash/grep/grep1$` echo "My favorite programming editor is Emacs. Another editor I like is Vim." | sed -e s/editor/tool/g
My favorite programming tool is Emacs. Another tool I like is Vim.
```

Substitute the second occurrence of 'editor' with 'tool'.

```
`$:/hackerrank/bash/grep/grep1$` echo "My favorite programming editor is Emacs. Another editor I like is Vim." | sed -e s/editor/tool/2
My favorite programming editor is Emacs. Another tool I like is Vim.
```

Highlight all the occurrences of 'editor' by wrapping them up in brace brackets.

```
`$:/hackerrank/bash/grep/grep1$` echo "My favorite programming editor is Emacs. Another editor I like is Vim." | sed -e s/editor/{\&}/g
My favorite programming {editor} is Emacs. Another {editor} I like is Vim.
```

Some references for learning about **sed** have been included:

[Sed - An Introduction and a tutorial](#)

[The TLDP Guide](#)

[Some Practical Examples](#)

## Task

Given an input file, with **N** credit card numbers, each in a new line, your task is to mask the first 12 digits of each of the credit card numbers with the asterisk sign. Assume that the credit card numbers will have 4 space separated segments with 4 digits each.

If the original credit card number is 1234 5678 9101 1234, transform it to **\*\* \* \*\*\* 1234**

**Useful References:** [This particular page on StackOverflow](#) has a slightly modified version of the same task, where the solution involves backreferences. [Here's](#) a detailed tutorial covering groups and backreferences.

## Input Format

**N** credit card numbers, each in a new line, your task is to mask the first 12 digits of each of the credit card numbers with the asterisk sign. Assume that the credit card numbers will have 4 space separated segments with 4 digits each.

## Constraints

$1 \leq N \leq 20$

However, the value of **N** does not matter while writing your command.

## Output Format

**N** lines, each containing the masked version of the credit card number in the corresponding line of the input file.

### Sample Input

```
1234 5678 9101 1234
2999 5178 9101 2234
9999 5628 9201 1232
8888 3678 9101 1232
```

### Sample Output

```
**** **** **** 1234
**** **** **** 2234
**** **** **** 1232
**** **** **** 1232
```

### Explanation

The digits of the first 3 segments have been masked in each of the credit card numbers.