

[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'.

```
`$:/user/bash/grep/grep1$` 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'.

```
`$:/user/bash/grep/grep1$` 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'.

```
`$:/user/bash/grep/grep1$` 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.

```
`$:/user/bash/grep/grep1$` 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 **reverse the ordering of segments** in each credit card number. Assume that the credit card numbers will have 4 space separated segments with 4 digits each.

If the original credit card number is 1434 5678 9101 1234, transform it to 1234 9101 5678 1434.

**Useful References:** [This particular page on StackOverflow](#) has a relevant example about sed, groups and backreferences. [Here's](#) a detailed tutorial covering groups and backreferences.

## Input Format

**N** credit card numbers, each in a new line, credit card numbers will have 4 space separated segments with 4 digits each.

**Constraints**

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

**Output Format**

**N** lines, each containing a credit card number with the ordering of its segments reversed.

**Sample Input**

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

**Sample Output**

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

**Explanation**

The order of the four segments in the (input) credit card numbers have been reversed.

**Questions**

If you need any clarification, please contact us.