



Practice > Python > Regex and Parsing > Regex Substitution

Regex Substitution ☆

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Problem

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The `re.sub()` tool (*sub* stands for *substitution*) evaluates a pattern and, for each valid match, it calls a *method* (or *lambda*).

The *method* is called for all matches and can be used to modify strings in different ways.

The `re.sub()` method returns the modified string as an output.

Learn more about [`re.sub\(\)`](#).

Transformation of Strings

Code

```
import re

#Squaring numbers
def square(match):
    number = int(match.group(0))
    return str(number**2)

print re.sub(r"\d+", square, "1 2 3 4 5 6 7 8 9")
```

Output

```
1 4 9 16 25 36 49 64 81
```

Replacements in Strings

Code

```
import re

html = """
<head>
<title>HTML</title>
</head>
<object type="application/x-flash"
  data="your-file.swf"
  width="0" height="0">
  <!-- <param name="movie" value="your-file.swf" /> -->
  <param name="quality" value="high"/>
</object>
"""
```

Author

DOSHI

Difficulty

Medium

Max Score

20

Submitted By

5972

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```
print re.sub("<!--.*?-->", "", html) #remove comment
```

Output

```
<head>
<title>HTML</title>
</head>
<object type="application/x-flash"
  data="your-file.swf"
  width="0" height="0">

  <param name="quality" value="high"/>
</object>
```

Task

You are given a text of N lines. The text contains `&&` and `||` symbols.

Your task is to modify those symbols to the following:

```
&& → and
|| → or
```

Both `&&` and `||` should have a *space* " " on both sides.

Input Format

The first line contains the integer, N .

The next N lines each contain a line of the text.

Constraints

$$0 < N < 100$$

Neither `&&` nor `||` occur in the *start* or *end* of each line.

Output Format

Output the modified text.

Sample Input

```
11
a = 1;
b = input();

if a + b > 0 && a - b < 0:
    start()
elif a*b > 10 || a/b < 1:
    stop()
print set(list(a)) | set(list(b))
#Note do not change &&& or ||| or & or |
#Only change those '&&' which have space on both sides.
#Only change those '||' which have space on both sides.
```

Sample Output

```
a = 1;
b = input();

if a + b > 0 and a - b < 0:
    start()
```

```
elif a*b > 10 or a/b < 1:
    stop()
print set(list(a)) | set(list(b))
#Note do not change &&& or ||| or & or |
#Only change those '&&' which have space on both sides.
#Only change those '||' which have space on both sides.
```

Current Buffer (saved locally, editable)



Python 3



```
1 import re
2 for _ in range(int(input())):
3     print(re.sub(r'(?<= )(\&\&|\||\|)(?= )', (lambda m: 'and' if m.group(1)
4         == '&&' else 'or'), input()))
```

Line: 3 Col: 89

Upload Code as File

☐ Test against custom input

Run Code

Submit Code



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49/115 challenges solved.

43%

Congratulations

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Challenge**

✔ Testcase 0

✔ Testcase 1

✔ Testcase 2

✔ Testcase 3

9 Testcases ✓

Input (stdin)

[Download](#)

Expected Output

[Download](#)

```
11
a = 1;
b = input();
```

```
a = 1;
b = input();

if a + b > 0 and a - b < 0:
```

Compiler Message

Success

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