



# Regex Substitution ★

82/115 challenges solved

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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>
"""

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.
```

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Language

Python 3



```
1 # Enter your code here. Read input from STDIN. Print output to STDOUT
2 import re
3
4 def substitute_operators(text):
5     # Pattern for && with word boundaries
6     and_pattern = r'(?<=\s)&&(?=\s)'
7     # Pattern for || with word boundaries
```

```
8     or_pattern = r'(?<=\s)\\|(?=\s)'\n9\n10    # Substitute && first, then ||\n11    text = re.sub(and_pattern, 'and', text)\n12    text = re.sub(or_pattern, 'or', text)\n13    return text\n14\n15    n = int(input())\n16    for _ in range(n):\n17        line = input()\n18        print(substitute_operators(line))\n19
```

EMACS

Line: 19 Col: 1

 Upload Code as File☐ Test against custom input

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## Running Testcases

✔ Test case 0   Test case 4  ✔ Test case 8 

✔ Test case 1  ✔ Test case 5 

✔ Test case 2  ✔ Test case 6 

✔ Test case 3  ✔ Test case 7 