

Regex Substitution



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.
```