Regex Substitution

Problem Statement

The $re.sub()$ (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.

Know more about $re.sub()$.

Transformation of String

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 8 16 25 36 49 64 81
```

Replacements in String

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 :

```
&& → and
|| → or
```

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

Input Format

First line contains integer, N.
Next N lines contains the text.

Constraints

$0 < N < 100$

Neither && nor || occur in $start$ 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 has space on both sides.
#Only change those '|| which has 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 has space on both sides.
#Only change those '|| which has space on both sides.
```