Replace pi (recursive)

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Given a string, compute recursively a new string where all appearances of "pi" have been replaced by "3.14".

Constraints :

1 <= |S| <= 50
where |S| represents the length of string S.

Sample Input 1 :

xpix

Sample Output :

x3.14x

Sample Input 2 :

pipi

Sample Output :

3.143.14

Sample Input 3 :

pip

Sample Output :

3.14p

Remove X

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Given a string, compute recursively a new string where all 'x' chars have been removed.

Input format :

String S

Output format :

Modified String

Constraints :

1 <= |S| <= 10^3
where |S| represents the length of string S.

Sample Input 1 :

xaxb

Sample Output 1:

ab

Sample Input 2 :

abc

Sample Output 2:

abc

String to Integer

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Write a recursive function to convert a given string into the number it represents. That is input will be a numeric string that contains only numbers, you need to convert the string into corresponding integer and return the answer.

Input format :

Numeric string S (string, Eg. "1234")

Output format :

Corresponding integer N (int, Eg. 1234)

Constraints :

0 <= |S| <= 9
where |S| represents length of string S.

Sample Input 1 :

00001231

Sample Output 1 :

1231

Sample Input 2 :

12567

Sample Output 2 :

12567

Pair Star

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Given a string S, compute recursively a new string where identical chars that are adjacent in the original string are separated from each other by a "*".

Input format :

String S

Output format :

Modified string

Constraints :

0 <= |S| <= 1000
where |S| represents length of string S.

Sample Input 1 :

hello

Sample Output 1:

hel*lo

Sample Input 2 :

aaaa

Sample Output 2 :

a*a*a*a

Tower of Hanoi

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Tower of Hanoi is a mathematical puzzle where we have three rods and n disks. The objective of the puzzle is to move all disks from source rod to destination rod using third rod (say auxiliary). The rules are :

1) Only one disk can be moved at a time.
2) A disk can be moved only if it is on the top of a rod.
3) No disk can be placed on the top of a smaller disk.

Print the steps required to move n disks from source rod to destination rod.

Source Rod is named as 'a', auxiliary rod as 'b' and destination rod as 'c'.

Input Format :

Integer n

Output Format :

Steps in different lines (in one line print source and destination rod name separated by space)

Constraints :

0 <= n <= 20

Sample Input 1 :

2

Sample Output 1 :

a b
a c
b c

Sample Input 2 :

3

Sample Output 2 :

```
a c
a b
c b
a c
b a
b c

a c
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