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## Iterative interleaving of strings

X46901\_en

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The interleaving of two strings  $x$  and  $y$  is a string that contains all characters of  $x$  and  $y$  and preserves the relative order of the characters in both  $x$  and  $y$ . For example, the interleaving of  $abc$  and  $xyz$  is  $axbycz$ . Write a program that prints the interleaving of every given pair of strings.

Define and use an iterative function

*interleaving*( $x,y$ )

that returns the interleaving of two strings  $x$  and  $y$ .

### Interface

C++ `string interleaving(string x, string y);`

Python `interleaving(x, y) # returns str`

`interleaving(x: str, y: str) → str`

### Input

The input consists of several pairs of strings.

### Output

Print the interleaving of every given pair of strings.

#### Sample input 1

```
abc xyz
ab xyz
abc xy
```

#### Sample output 1

```
axbycz
axbyz
axbyc
```

### Problem information

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