

## C. Simple Strings

time limit per test: 2 seconds

memory limit per test: 256 megabytes

input: standard input

output: standard output

`zscoder` loves simple strings! A string  $t$  is called simple if every pair of adjacent characters are distinct. For example `ab`, `aba`, `zscoder` are simple whereas `aa`, `add` are not simple.

`zscoder` is given a string  $s$ . He wants to change a minimum number of characters so that the string  $s$  becomes simple. Help him with this task!

### Input

The only line contains the string  $s$  ( $1 \leq |s| \leq 2 \cdot 10^5$ ) — the string given to `zscoder`. The string  $s$  consists of only lowercase English letters.

### Output

Print the simple string  $s'$  — the string  $s$  after the minimal number of changes. If there are multiple solutions, you may output any of them.

Note that the string  $s'$  should also consist of only lowercase English letters.

### Examples

input	Copy
aab	
output	Copy
bab	
input	Copy
caaab	
output	Copy
cabab	
input	Copy
zscoder	
output	Copy
zscoder	