

Eight Trigrams (1 Point)

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output
points: 100 · problem code: eighttrigrams · author: jszqlew

Problem Statement

Neji Hyuga was studying trigrams and palms, which are three letter words. You have been asked to do the question which Neji could not do.

Given a string s of length 3 (i.e. a trigram), and a positive integer n , create a string such that it contains s in n different places, and it is as small as possible. It can be proven there is exactly one unique string with these properties.

Input Format

Your first line will contain n . Your next line will contain s .

Output Format

You should output the smallest string containing s in n different places.

Constraints

- $1 \leq n \leq 10^4$

Sample Cases

Input 1

```
5  
ana
```

Output 1

```
ananananana
```

Input 2

```
3  
abc
```

Output 2

```
abcabcabc
```