B. Phone numbers

time limit per test: 2 seconds
memory limit per test: 256 megabytes
input: standard input
output: standard output

Phone number in Berland is a sequence of n digits. Often, to make it easier to memorize the number, it is divided into groups of two or three digits. For example, the phone number `1198733` is easier to remember as `11-987-33`. Your task is to find for a given phone number any of its divisions into groups of two or three digits.

Input

The first line contains integer n ($2 \le n \le 100$) — amount of digits in the phone number. The second line contains n digits — the phone number to divide into groups.

Output

Output any of divisions of the given phone number into groups of two or three digits. Separate groups by single character `-`. If the answer is not unique, output any.

Examples

input
6 549871

output
54-98-71

input
7 1198733

output
11-987-33