## A. k-String

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

output: standard output

A string is called a k-string if it can be represented as k concatenated copies of some string. For example, the string "aabaabaab" is at the same time a 1-string, a 2-string and a 4-string, but it is not a 3-string, a 5-string, or a 6-string and so on. Obviously any string is a 1-string.

You are given a string s, consisting of lowercase English letters and a positive integer k. Your task is to reorder the letters in the string s in such a way that the resulting string is a k-string.

## Input

The first input line contains integer k ( $1 \le k \le 1000$ ). The second line contains s, all characters in s are lowercase English letters. The string length s satisfies the inequality  $1 \le |s| \le 1000$ , where |s| is the length of string s.

## **Output**

Rearrange the letters in string s in such a way that the result is a k-string. Print the result on a single output line. If there are multiple solutions, print any of them.

If the solution doesn't exist, print "-1" (without quotes).

## **Examples**

2 aazz  output azaz	input		
output	2		
output azaz	aazz		
azaz	output		
	azaz		

input		
3 abcabcabz		
output		
-1		