

Problem B. Echo

Time limit 2000 ms

Mem limit 1048576 kB

Problem Statement

Given are a positive integer N and a string S of length N consisting of lowercase English letters.

Determine whether the string is a concatenation of two copies of some string. That is, determine whether there is a string T such that $S = T + T$.

Constraints

- $1 \leq N \leq 100$
- S consists of lowercase English letters.
- $|S| = N$

Input

Input is given from Standard Input in the following format:

N
 S

Output

If S is a concatenation of two copies of some string, print **Yes** ; otherwise, print **No** .

Sample 1

Input	Output
6 abcabc	Yes

Let $T = \text{abc}$, and $S = T + T$.

Sample 2

Input	Output
6 abcadc	No

Sample 3

Input	Output
1 z	No