January 2023 CSE 106
Online: Array List & Linked List

Time: 30 minutes

Subsections B1 & B2

You are given a linked list of **characters**, "$L : l_1 \rightarrow l_2 \rightarrow l_3 \rightarrow ... \rightarrow l_{n-1} \rightarrow l_n$". You need to determine if its reverse list, "$R : l_n \rightarrow l_{n-1} \rightarrow ... \rightarrow l_2 \rightarrow l_1$" denotes the same sequence of characters as L.

Input

First take n as input, denoting the number of elements in L.

Next, take n space-separated characters l_1, l_2, ..., l_{n-1}, l_n, denoting the elements of the linked list in order.

Output

Print YES if L and R denote the same sequence of characters, and NO otherwise.

See the Sample I/O for further clarification.

Sample I/O

Input	Output
7 r o t a t o r	YES
19 s a i p p u a k i v i k a u p p i a s	YES
4 p y p y	NO

Marks Distribution

Approach	Marks
Print YES or NO	70%
Do not use any auxiliary list (an array or a linked list) other than L for storing the elements	100%

Please note that any usage of the internet is strictly prohibited during the assignment. Usage of any unfair means will be duly punished.