# D. Scissors

time limit per test: 1 second memory limit per test: 256 megabytes

input: standard input output: standard output

Jenya has recently acquired quite a useful tool — k-scissors for cutting strings. They are generally used for cutting out two non-intersecting substrings of length k from an arbitrary string s (its length should be at least  $2 \cdot k$  in order to perform this operation) and concatenating them afterwards (preserving the initial order). For example, with the help of 2-scissors you can cut ab and de out of abcde and concatenate them into abde, but not ab and bc since they're intersecting.

It's a nice idea to test this tool before using it in practice. After looking through the papers, Jenya came up with two strings s and t. His question is whether it is possible to apply his scissors to string s such that the resulting concatenation contains t as a substring?

## Input

The first line contains three integers n, m, k ( $2 \le m \le 2 \cdot k \le n \le 5 \cdot 10^5$ ) — length of s, length of t and the aforementioned scissors' parameter correspondingly.

The next two lines feature *s* and *t* consisting of lowercase latin letters.

# **Output**

If there is no answer, print «No».

Otherwise print <Yes> and two integers L and R denoting the indexes where cutted substrings start (1-indexed). If there are several possible answers, output any.

### **Examples**

# input 7 4 3 baabaab aaaa output Yes 1 5

| input                  |  |  |
|------------------------|--|--|
| 6 3 2<br>cbcbcb<br>bcc |  |  |
| output                 |  |  |
| Yes<br>2 5             |  |  |

| input                     |  |
|---------------------------|--|
| 7 5 3<br>aabbaaa<br>aaaaa |  |
| output                    |  |
| No                        |  |

### **Note**

In the first sample case you can cut out two substrings starting at 1 and 5. The resulting string baaaab contains aaaa as a substring.

In the second sample case the resulting string is *bccb*.