

Ring

Time Limit : 1 sec, Memory Limit : 131072 KB

Ring

Write a program which finds a pattern p in a ring shaped text s .



Input

In the first line, the text s is given.

In the second line, the pattern p is given.

Output

If p is in s , print Yes in a line, otherwise No.

Constraints

- $1 \leq \text{length of } p \leq \text{length of } s \leq 100$
- s and p consists of lower-case letters

Sample Input 1

```
vanceknowledgetoad  
advance
```

Sample Output 1

```
Yes
```

Sample Input 2

```
vanceknowledgetoad  
advanced
```

Sample Output 2

```
No
```