Shift and Compare

Consider one string as input. You have to check whether the strings obtained from the input string with single backward and single forward shift are the same or not. If they are the same, then print 1; otherwise, print 0.

Hint:

Backward Shift:
A single circular rotation of the string in which the first character becomes the last character and all the other characters are shifted one index to the left. For example, "abcde" becomes "bcdea" after one backward shift.

Forward Shift:
A single circular rotation of the string in which the last character becomes the first character and all the other characters are shifted to the right. For example, "abcde" becomes "eabcd" after one forward shift.

Instructions:

- The system does not allow any kind of hard coded input value/values.
- The written program code by the candidate will be verified against the inputs that are supplied from the system.
- For more clarification, please read the following points carefully till the end.

Constraints:

String str should not allow space, special characters and numbers.
String str should only be in the English language.

Example 1:

Input:

sfdlmnop

Output:

0

Example 2:

Input:

mama

Output:

1

Explanation:

In the first example, the string is "sfdlmnop".
Forward Shift: fdlmnops
Backward Shift: psfdlmnop
Both the strings above are not equal, so the output is 0.

In the second example, the string is "mama".
Forward Shift: amam
Backward Shift: amam
Both the strings above are equal, so the output is 1.

Input Format:

The candidate has to write the code to accept a single string value for str without any additional message.

Output Format:

The written program code should generate the output as a single integer value, i.e. 0 or 1, which represents whether both forward and backward shift strings are equal or not.

Additional message in the output will result in the failure of test cases.