

# Repeating Strings

DiPS CodeJam 23

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## Prompt

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Given a string, determine if the string has two or more consecutive substrings that are equivalent. For example, given the strings  $s_1$ [bdefdefg] and  $s_2$ [abcab],  $s_1$  will return true as the substring “def” repeats, while  $s_2$  returns false.

## Input Format

The first and only line of input contains string  $s$ .

## Output Format

Print “true” if the string has two or more consecutive substrings that are equivalent, and print “false” otherwise.

## Sample Input/Output

Input	Output
bdefdefg	true

## Solution

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- Find all substrings of the string.
- For each substring:
  - Check if double the substring (“abc” > “abcbc”) is also present in the list of substrings.
  - If such a string is present, print “true” and exit the loop.
- If the loop has run through and no repeating substrings have been found, print “false.”

## Sample Program

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```
s=input().strip()

substrings = [s[i:j] for i in range(len(s)) for j in range(i + 1, len(s) + 1)]

for substring in substrings:
    possibleRepeat=substring*2
    if possibleRepeat in substrings:
        print("true")
        break
else:
    print("false")
```