

All Tracks > Algorithms > String Algorithms > > Problem

# Palindrome queries

Attempted by: 519 / Accuracy: 78% / Maximum Score: 30 / ★★★☆ 7 Votes

Tag(s): Algorithms, String Algorithms, String Searching



**EDITORIAL** 

MY SUBMISSIONS

You are given a string S that contains n lowercase alphabets. There are Q queries of the form [L,R]. Your task is to determine if every character in the range [L,R] can be arranged in such a manner that a palindromic substring for that range can be formed. If it is possible to create the palindrome substring in the provided interval, then print **Possible**. Otherwise, print **Impossible**.

Note: The original string is not changed in the process.

#### Input format

- ullet First line:  $oldsymbol{Q}$  denotes the number of queries
- Second lines: String  $m{S}$  of  $m{n}$  lowercase English letters
- Third line: Number of queries of the  $[\boldsymbol{L},\boldsymbol{R}]$  format

#### **Output format**

Print Q lines for each query. Print Possible if a palindrome substring is formed in the provided interval. Otherwise, print Impossible.

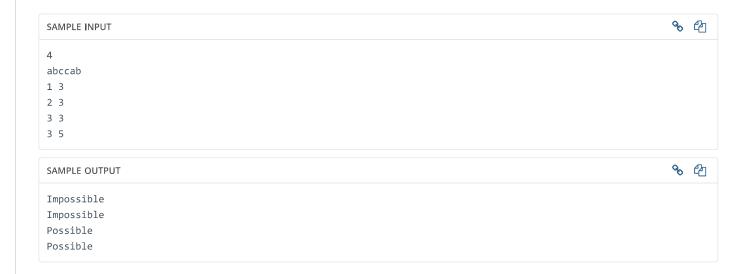
#### Constraints

 $|s| \leq 10^5$ 

 $|Q| \leq 10^5$ 

 $|s| \leq 10^5$ 

 $1 \le L \le R \le n$ 



### **Explanation**

In this case We can't make string palindrome if the interval is between [1, 3], [2, 3]. But we could make palindrome for the individual characters so it's **possible** for [3, 3].

Also for the case [3, 5] it's possible by shuffling the substring cca as cac so it can be formed as a palindrome.

Time Limit:	1.0 sec(s) for each input file.	
Memory Limit:	256 MB	
Source Limit:	1024 KB	7
Marking Scheme:	Marks are awarded when all the testcases pass.	۰

Allowed Languages: Bash, C, C++, C++14, C++17, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Julia, Kotlin, Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Swift, Swift-4.1,

TypeScript, Visual Basic

### **CODE EDITOR**

**Expected Correct Output** 

Enter your code or Upload your code as file. Save Python 3 (python 3.5.2) 14 if len(L)==0: 15 return False 16 else: 17 if L==L[::-1]: 18 return True 19 else: 20 temp=permutations(L) 21 for i in list(temp): 22 if i ==i[::-1]: 23 return True 24 return False 25 Q=int(input()) S=str(input()) 26 27 while (Q!=0): 28 a=input() 29 b=a.split() 30 Li=list(int(i) for i in b) 31 Li[0]-=1 Lo=S[Li[0]:Li[1]] 32 33 Res=ispallin(Lo) 34 if Res is True: 35 print("Possible") 36 else: print("Impossible") 37 38 Q-=139 37:20 vscode

# ■ Provide custom input COMPILE & TEST SUBMIT Log ID: 116988975 / Apr 19, 2020 12:50 PM IST **RESULT:** Sample Test Cases Passed ② Time (sec) Memory (KiB) Language 0.102977 Python 3 64 Input abccab 1 3 2 3 3 3 Your Code's Output Impossible Impossible Possible Possible ?

Impossible
Impossible
Possible
Possible

Compilation Log
Compiled successfully.

Execution Log
No execution log!

Need a hint?

Your Rating:

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## PROGRAMMERS WHO SOLVED THIS PROBLEM ALSO SOLVED

**Missing String** 

Attempted By: 209 / Accuracy: 19

★★☆☆ 2 Votes

Predict The Road Sign - Here

Attempted By: 921 / Accuracy: 86

★★★☆☆ 1 Vote

Count Words In Given String

Attempted By: 94 / Accuracy: 42

★★★★ 1 Vote

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