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LIVE EVENTS

CHANDIGARH
UNIVERSITY

Code Chronicles

Sep 10, 2018, 06:00 PM IST - Sep 13, 2018, 12:00 AM IST

INSTRUCTIONS   PROBLEMS   SUBMISSIONS   JUDGE

← Problems / Hermoine's Magic

Hermoine's Magic

Max. Marks: 30

> The challenge is over and this problem has been moved to practice area. You can either submit your solution here or
> Go to Practice Area. Also further submissions won't affect the leaderboard.

PROBLEM   EDITORIAL   MY SUBMISSIONS

Hermione has a knows a magical spell to teleport words.

She can teleport words in two ways, each teleport takes **a** minute to work **a** and **b**. Help her to convert her move **a** to **b**

In a one minute, she can teleport any letter by spell a by one, that is, in a minute, she can convert letter **A** to **B, B** to **C, C to D** and so on. She can also teleport **Z** to **A.**

She comes to know that she can take help from Ron Weasley and can teleport any letter using spell b by 13 that is she can teleport any single letter by 13 like **A to N, B into letter O, M into letter Z, O to B** and so on.

Harry Potter challenges her to teleport by taking minimum time.

Help Hermione to accept the challenge and teleport faster....!!!

Constraints:

- $1 \le |a| = |b| \le 10^5$
- a and b consists of uppercase English letters only

Input format:

- First line contains an integer **n**, the length of strings **a** and **b**
- Second line contains string **a** of length **n**
- Third line contains string **b** of length **n**

Output format:

- Output single line containing the minimum time required

SAMPLE INPUT	🔗 📑
4 ABCT PBDI	

SAMPLE OUTPUT	🔗 📑
7	

?

Explanation

Hermione can convert teleport with help of Ron from a to b in 7 minutes as follows:

1. $A->N$ (1st letter)

2. $N->O$ (1st letter)

3. $O->P$ (1st letter)

4. $C->D$ (3rd letter)

5. $T->G$ (4th letter)

6. $G->H$ (4th letter)

7. $H->I$ (4th letter)

Time Limit:	5.0 sec(s) for each input file.
Memory Limit:	256 MB
Source Limit:	1024 KB
Marking Scheme:	Marks are awarded if any testcase passes.
Allowed Languages:	Bash, C, C++, C++14, 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, Visual Basic

CODE EDITOR

Enter your code or Upload your code as file.

Save   Bash (GNU bash, version 4.3 ▼)

```
1  # Sample bash code
2
```
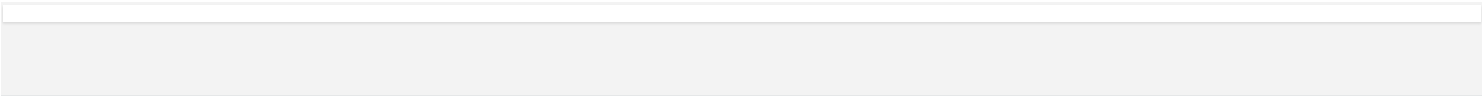
1:1

▣ Provide custom input

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