



05 : 06 : 44 : 02
DAY HRS MIN SEC

Codathon - Inter NIT Coding Contest 2018

LIVE

Jan 15, 2018, 06:00 PM IST - Jan 22, 2018, 06:00 PM IST

INSTRUCTIONS

PROBLEMS

SUBMISSIONS

LEADERBOARD

ANALYTICS

JUDGE

7

LIVE EVENTS

← Problems / Day 2 - Queen of Qing

Day 2 - Queen of Qing

Max. Marks: 100

The new queen of **Qing** Dynasty is The Queen **Colilico** .
She is very fond of her name.
She orders everyone in Qing to present her a **COLILICO** string.

A string is called **COLILICO** string if it follows the following conditions-

- It can be sliced into exactly four parts of equal length. (CO LI LI CO)
- The first part is identical to last part.
- The second part is identical to third part.

Little Fuji also has a string and wants to present it to Queen but he doesn't know whether it's a COLILICO string or not.

Help Fuji to present his string to queen at minimum cost.

Following are rules/costs to manipulate any string in Qing:-

- Characters of any particular part can be shuffled within that part without any cost.
- Characters cannot be transferred from one part to another.
- Replacing any character of string with a new one costs **1 Unit**.

INPUT:-

The first line of input contains a positive integer Q denoting number of Queries.

The first line of each query contains a positive integer L denoting length of string.

The next line of the query contains a string of length L.

OUTPUT:-

Print "YES" (without quotes) if there is no cost to convert the string to COLILICO String.

Else print "NO" (without quotes) followed by an integer denoting the minimum cost.

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CONSTRAINTS

$$1 \leq Q \leq 100000$$

$$4 \leq L \leq 200000$$

(L is always a multiple of 4)

String only consists of lower case letters of english alphabet.

Sum of L over all queries ≤ 1000000

SAMPLE INPUT

```
2
4
abcd
8
abcdcdab
```

SAMPLE OUTPUT

```
NO 2
YES
```

Explanation

The first string is obviously not a **COLILICO** String. The minimum cost to convert it into **COLILICO** String is 2. One of the ways is to change **c** to **b** and **d** to **a**. The resulting String will be abba.

The second string is already a **COLILICO** String.

Time Limit: 1.0 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: 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, Visual Basic

CODE EDITOR

Enter your code or [Upload your code](#) as file.

Save

C (gcc 5.4.0)



```
1 /*
2 // Sample code to perform I/O:
3
4 scanf("%s", name);           // Reading input from STDIN
```



```
5 printf("Hi, %s.\n", name);    // Writing output to STDOUT
6
7 // Warning: Printing unwanted or ill-formatted data to output will cause the test
8 */
9
10 // Write your code here
11
```

1:1

☒ Provide custom input Press Ctrl-space for autocomplete suggestions.

COMPILE & TEST

SUBMIT

 **Tip:** You can submit any number of times you want. Your best submission is considered for computing total score.

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