



# Thomas And His Friends

Problem Code: **TCQF181C**

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At a station a kid is marking the color of every boggie which can be any color from **V-Violet, I-Indigo, B-Blue, G-Green, Y-Yellow, O-Orange, R-Red**. Several trains come and go and is given in string **S**.

The station master's favourite train consists of boggies with a combination of colors denoted by string **F**. It is noted that through the station, every hour, **X** boggies pass out. You just have to mention the hour when the station master's favourite train visited first and last time.

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## Input

First line of input contains **T** - the number of test cases. First line of each test case consists of **S**. Second line of each test case consists of **X** and the third line of each test case consists of **F** as mentioned above.

## Output

For each test case, output a single line containing the answer required as follows:  
If station master's favourite boggie arrives atleast 2 times, print first and last hour with a space.  
If station master's favourite boggie doesn't appear atleast 2 times, print -1.

## Constraints

- $1 \leq T \leq 100$
- $1 \leq |S| \leq 100000$
- $1 \leq |F| \leq 1000$
- $|F| \leq |S|$
- $1 \leq X \leq 1000$

## Example

**Input:**

```
2
VIBGYOYORBGIIOYVVVRYOYOV
6
YOYO
VIBGYOYORBGIIOYVVVRYOYOV
6
VBB
```

**Output:**

```
1 4
-1
```

## Explanation

**Example case 1:** YOYO appears first in first hour at position as 5th boggie of the hour and appeared last in fourth hour as 2nd boggie of the hour.

**Example case 2:** VBB did not appeared atleast 2 times so answer is -1 as mentioned above.

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Time Limit: 1 secs

Source Limit: 50000 Bytes

Languages: ADA, ASM, BASH, BF, C, CAML, CLOJ, CLPS, COB, CPP 4.3.2, CPP 6.3, CPP14, CS2, D, ERL, FORT, FS, GO, HASK, ICK, ICON, JAVA, JS, kotlin, LISP clisp, LISP sbcl, LUA, NEM, NICE, NODEJS, PAS fpc, PAS gpc, PERL, PERL6, PHP, PIKE, PRLG, PYPY, PYTH, PYTH 3.5, RUBY, rust, SCALA, SCM chicken, SCM guile, SCM qobi, ST, swift, TCL, TEXT, WSPC

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