



# Powerful Alphabets

Problem Code: **SAT101**[Submit \(/SATA2019/submit/SAT101\)](/SATA2019/submit/SAT101)

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Powers of Alphabets!!

Chef came out with an interesting problem on strings.

The power of a particular alphabet is defined as the difference between the indices of its last and first occurrence.

Your task is to find out the alphabet with maximum power and its power. If there are multiple answers output the lexicographically smallest alphabet.

Input :

The first line will consist of a single integer 'T' , Describing no of test cases.

Each of the next T lines will contain a string 'S' consisting of only lowercase English alphabets.

Output :

For each test output the answer alphabet and power respectively on a new line.

Constraints :

$1 \leq T \leq 1000$

$1 \leq |S| \leq 1000$

Example Input :

```
3
aaa
bbaa
bab
```

Example Output :

```
a 2
a 1
b 2
```

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Time Limit: 1 secs

Source Limit: 50000 Bytes

Languages: C, CPP14, JAVA, PYTH, PYTH 3.6, PYPY, CS2, PAS fpc, PAS gpc, RUBY, PHP, GO, NODEJS, HASK, rust, SCALA, swift, D, PERL, FORT, WSPC, ADA, CAML, ICK, BF, ASM, CLPS, PRLG, ICON, SCM qobi, PIKE, ST, NICE, LUA, BASH, NEM, LISP sbcl, LISP clisp, SCM guile, JS, ERL, TCL, SQL, kotlin, PERL6, TEXT, SCM chicken, PYP3, CLOJ, R, COB, FS

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