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Friends with Strings

Problem code: ABHSTR

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Abhi and his friends (Shanky, Anku and Pandey) love to play with strings. Abhi invented a simple game. He will give a string **S** to his friends. Shanky and Anku will play the game while Pandey is just a spectator. Shanky will traverse the string from beginning (left to right) while Anku will traverse from last (right to left). Both have to find the first character they encounter during their traversal, that appears only once in the entire string. Winner will be one whose character is alphabetically more superior (has higher ASCII value). When it is not possible to decide the winner by comparing their characters, Pandey will be the winner.

Input

The first line of the input contains an integer **T** denoting the number of test cases. The description of **T** test cases follows.

Each test case contains a string **S** having **only lowercase alphabets** (a..z).

Output

For each test case, output a single line containing "SHANKY" if Shanky is the winner or "ANKU" if Anku is the winner or "PANDEY" if the winner is Pandey. Output your answer **without** quotes.

Constraints

- $1 \leq T \leq 100$
- $1 < |S| \leq 10^5$

Example

Input:

```
3
google
breakraekb
aman
```

Output:

```
SHANKY
PANDEY
ANKU
```

Explanation

Example case 2. Both Shanky and Anku can not find any such character. Hence it is not possible to decide the winner between these two. So Pandey is the winner.

Author: saurabhnit

Date Added: 17-04-2016

Time Limit: 1 sec

Source Limit: 50000 Bytes

Languages: ADA, ASM, BASH, BF, C, C99 strict, CAML, CLOJ, CLPS, CPP 4.3.2, CPP 4.9.2, CPP14, CS2, D, ERL, FORT, FS, GO, HASK, ICK, ICON, JAVA, JS, LISP clisp, LISP sbcl, LUA, NEM, NICE, NODEJS, PAS fpc, PAS gpc, PERL, PERL6, PHP, PIKE, PRLG, PYPY, PYTH, PYTH 3.1.2, RUBY, SCALA, SCM chicken, SCM guile, SCM qobi, ST, TCL, TEXT, WSPC

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