# Problem C. Ctrl+C Ctrl+V

| | |
|---|---|
| Input file: | `standard input` |
| Output file: | `standard output` |
| Time limit: | 5 seconds |
| Memory limit: | 1024 megabytes |

*- How are you doing with that autobiography?*
*- Er, Ania, what? Was there any homework for the Polish class?*
*- Come on, we were supposed to write an autobiography. Did you forget?*
*- I forgot. Can I copy it from you?*
*- You want to copy an autobiography!? Fine, but at least make some changes.*

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You are given a string $s$ consisting of lowercase English letters. This is an autobiography written by Ania, which means it may contain the word `ania` as a contiguous substring, perhaps even multiple times. Determine the minimum number of characters that need to be changed in $s$ so that it does not contain the word `ania` as a contiguous substring.

## Input

The first line of input contains the number of test cases $z$ ($1 \le z \le 10\,000$). The descriptions of the test cases follow.

The first and only line of each test case contains the string $s$ - Aniaś autobiography. The stringś length is $l$ ($1 \le l \le 10^6$). It solely consists of lowercase letters of the English alphabet.

The total length of the strings in all test cases does not exceed $5\,000\,000$.

## Output

For each test case, in a separate line, write one integer, representing the minimum number of changes that have to be made to the autobiography so that it does not contain a substring `ania`.

## Example

| standard input | standard output |
|---|---|
| 3<br>aniasieurodzilaapotemnicsieniedzialo<br>nicciekawegouanianiagnieszkianialicji<br>jeszczekrotszaautobiografiaani | 1<br>2<br>0 |