

Problem A

Blaittland

Source file: blaittland.{ c | cpp | java | py }

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In the calm Blaittland University, there exists an old library full of rarities, including a bookshelf brimming with programming language books. Every morning, these books are meticulously organized in alphabetical order from left to right. None of the books have titles that start with the same letter. However, students, always rushing towards assignment deadlines, pick books to read and place them back exactly one position to the left of its original spot, maintaining a unique semblance of disorder in the bookshelf.

Interestingly, Systems Analysis and Development students have adopted a peculiar habit: if a book has been read by more than five people during a day, they don't read it again. This unspoken rule, however, is not always respected by the Database Systems students. Another quirk that has been noticed is that no one ever picks up the book located furthest to the left to read.

At the end of the day, Jeff, the librarian, not only needs to calculate the number of times books were picked to read, but he also wants to determine if it is possible to be certain that any Database Systems student has read a book.

Input

The first line contains a single integer N ($1 \leq N \leq 26$), representing the number of books on the shelf. The second line contains a string of N uppercase letters (from A to Z), representing the final order of the books on the shelf.

Output

If it's possible to affirm (beyond a shadow of a doubt) that a Database Systems student read a book, print "A Database Systems student read a book." Otherwise, print a single integer, representing the number of times any book was picked to read. Remember to include a newline at the end of your output.

Example of Input 1

```
7
GCBADF
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Example of Output 1

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A Database Systems student read a book.
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Example of Input 2

```
12
DFGNMHRQSYVZ
```

Example of Output 2

```
5
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