More German Nouns

Time limit: 1.0s   **Memory limit:** 64M

Introduction to Unicode

Unfortunately, the students are not very bright and giving them the number of nouns in one line is not enough to help them. To add insult to injury, the ASCII substitution is too hard for them to understand. Hence, the teacher decided to be more direct and ask you to just list all the nouns as they appear in the text. It also saves the effort to convert the text into ASCII.

Input Specification

The first line is the number n ($n \in \mathbb{N}, n \leq 100$), the number of lines to process. The next n lines are German text, UTF-8 encoded. The text will be formatted to the new, i.e. post-reform, German spelling rules. To make your life easier, we will not capitalize the first letter of each line unless it is a noun, nor will any pronouns be capitalized.

Output Specification

You are to output all the German nouns in the order they appear in the text, encoded as UTF-8. Also, you must not change the nouns in any way, i.e. you must preserve the declension of the noun.

Sample Input

```
4
doch der Klang seiner Stimme war voll Zärtlichkeit,
so viel Wärme und Trost in jedem Ton!
die Musik jener Nacht trug mich davon.
und so bin ich der Wirklichkeit entflohen.
```

Sample Output

```
Klang
Stimme
Zärtlichkeit
Wärme
Trost
Ton
Musik
Nacht
Wirklichkeit
```