Reverse Words

In this problem, you will need to reverse the words within a sentence. A word is made of lower case letters and separated by one spaces. There will be no leading or trailing spaces. For example, if the sentence is “sun rises in the east” you need to output “east the in rises sun”.

[redacted] “sun rises in the east” [redacted] “east the in rises sun”

Input

First line contains an integer T (T≤20), the number of cases. Then each line will contain a sentence. The length of the sentence will be less than 150.

[redacted] T (T≤20). [redacted]

Output

For each case print one line where the words are reversed in the sentence. Check sample input and output section for more details.

[redacted]

Example

Input:
2
sun rises in the east
hello world

Output:
east the in rises sun
world hello