

0000236 base 7
0000175 base 8
0000148 base 9

Dictionary

Input File: Dictionary.txt

A dictionary stored in a disk file is compressed to save disk space. Because the words are alphabetized, often the first few letters of two adjacent words in the file are the same. When this is the case, the starting letters of the second word (in alphabetic order) are replaced with a single digit. The value of the digit is the number of letters in the word that are the same as the starting letters in the previous word. If two adjacent words do not share starting letters, no digit is used. Words can share up to nine starting letters.

Write a program to read in the compressed dictionary words from the file and output the correctly spelled words in the same order as they appear in the dictionary file.

Inputs

The first line will contain the number of lines of words in the dictionary. Each subsequent line will contain dictionary words separated by a space. Where appropriate the words will be compressed.

Outputs

There will be one output line per input line. Each line will contain the correct spelling of the dictionary words in the same order as they appear on the lines of the compressed dictionary file. The words on a line will be separated by a space.

Sample inputs

2
abacus 3ndon 7ed 2normal 8ly 8ity
2solute 8ly admiral 7ty beginner

Sample output

abacus abandon abandoned abnormal abnormally abnormality
absolute absolutely admiral admiralty beginner