

Wolkite University Competitive Programming Contest 2022

Problem B: Translator

Time Limit: 1 second

Mukerem, Mustefa and Amir have qualified for and are going to Egypt to participate in the ACPC of 2019. We are all very excited for them as this is the first time anyone from Ethiopia has qualified to continental level contest.

But neither Mukerem, Mustefa nor Amir can speak Arabic, the main language used in any interaction in Egypt. There is not enough time to for them learn Arabic so they have tasked you to write a translator program for them while they prepare for their epic victory at the ACPC. They have already found the most used words in conversations in Egypt and looked up their meanings from an Arabic to Amharic Dictionary. They also have the new Speech-To-Text-To-Speech Pro Earphone by pineapple so if you convert the text from Arabic to Amharic t, they wouldn't even notice the difference.

Given a list of words and their translation for each word, you should translate any sentences that follow afterwards.

Input

The first line of input is a single number, n , denoting the number of words Team Andalus has provided you with translations. For the next n lines there will be a translation of words from Arabic to Amharic in the form of "Arabic_word = Amharic_Word". Then, until the end of file, there will be lines of sentences spoken by Egyptians.

Output

For each sentence spoken by the Egyptians, print the translated transcript in Amharic. If a word has no translation to Amharic just print the word.

Sample Input 1	Sample Output 1
8 you = we could = would say = both be = both but = but right = wrong both = also win = lose i could say you are right but then we would both be wrong	i would both we are wrong but then we would also both wrong