

GptS

2024/2025 SEASON – SIXTH ROUND



Bochi got mad when he saw his sister using Artificial Intelligence, instead of asking for his help. Because he thinks he's a good programmer, he decided to write a program which solves his sister's task.

The task is simple. His sister gives the Artificial Intelligence a list of N numbers: a_1, a_2, \dots, a_N . The numbers are in word form, according to their English representation in the International Number System. In order for the system to know where the numbers end, Bochi's sister places "END" after every number. The AI and Bochi's job is to give back the numbers in their digits form.

Bochi couldn't solve the task so he gives you the numbers and N and wants you to try, as well. Write a program solving the task.

Input

The first line of the file **gptS.in** contains N : the amount of numbers. Each of the next N lines contains strings, which represent a number and the last string is "END".

Output

On each of the N lines of the file **gptS.out** print 1 number - a_i , representing the number provided on the i -th line of the input.

Constraints

$$1 \leq N \leq 10^5$$

$$1 \leq a_i < 10^9$$

Time Limit: 0.5 sec.

Memory Limit: 256 MB.

Sample Test

Input (gptS.in)	Output (gptS.out)
4	44
Forty Four END	571
Five Hundred Seventy One END	16099
Sixteen Thousand Ninety Nine END	2005000
Two Million Five Thousand END	