**Python Day 3 Assignment**

1. Generate a list of the first N Fibonacci numbers, 0 being the first number. Then, apply the map function and a lambda expression to cube of 2 times each Fibonacci number and print the list.

Input Format

One line of input: an integer N

Output Format

A list on a single line containing the cubes of the first N Fibonacci numbers.

Sample Input

4

Sample Output

[0, 8, 8, 64]

Explanation

The first 4 Fibonacci numbers are [0, 1, 1, 2], and their cubes of twice the numbers are [0, 8, 8, 64].

1. You are given an integer N followed by N values. Your task is to print a list containing only strings having 3 or more characters in lexicographical order.

**Input Format**

The first line of input is the integer N, the number of user inputs.   
N lines follow, each containing a string or a number.

**Output Format**

Output a list containing the strings having 3 or more characters in lexicographical order. If the list is empty, just output an empty list, [].

1. Given a list of rational numbers, find their product.

**Input Format**

First line contains n, the number of rational numbers.   
Next n lines contain two integers each, the numerator (Ni) and denominator (Di) of the ith rational number in the list.

**Output Format**

Print only one line containing the numerator and denominator of the product of the numbers in the list in its simplest form, i.e. numerator and denominator have no common divisor other than 1.

**Sample Input 0**

3

1 2

3 4

10 6

**Sample Output 0**

5 8

---------END---------