import java.io.\*;

import java.util.\*;

import java.text.\*;

import java.math.\*;

import java.util.regex.\*;

public class Solution {

public static void main(String[] args) {

Scanner in = new Scanner(System.in);

int N = in.nextInt();

String emailRegEx=".+@gmail\\.com$";

Pattern pattern=Pattern.compile(emailRegEx);

List<String> list = new ArrayList();

for(int i=0;i<N;i++)

{

String name = in.next();

String email = in.next();

Matcher matcher = pattern.matcher(email);

if (matcher.find()){

list.add(name);

}

}

Collections.sort(list);

for (String name : list){

System.out.println(name);

}}}

}