Programming League National 2020

A	T9	
	Code Name	`t9`
	Input	Standard Input
	Output	Standard Output
	Time Limit	2 second
	Memory Limit	256 megabytes

Problem Statement

Dr. Nazim is a nostalgic person. He enjoys using old technologies that he discovered during his adolescence in the 90's of the previous century. One of his favorite technologies is the old phone Nokia 3310. He used to send messages using the old keyboard where you have to click a number several times to see the letter you want to print on the screen. A long period using this kind of keyboard led him to memorize several numbers representing words. He can even convert any word to a number while typing text to his friend Dr. Yessine. This is Dr. Nazim's phone.

Can you write a program that can think as Dr. Nazim by converting each expression to a number?

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Input Format

The first line contains a single integer $N(1 \leq N \leq 100)$ which is the number of test cases. Each test case consists of one line containing an expression based on simple characters (letters) or spaces.

Output Format

For each test case print the corresponding number.

Please note that the output for upper and lower case are the same.

Sample Input	Sample Output
2 Hello good morning	4433555555666 4666666306666777664446664

B IP Checking

Code Name	`ipchecking`
Input	Standard Input
Output	Standard Output
Time Limit	2 second
Memory Limit	512 megabytes

Problem Statement

An IP address is a 32 bit address formatted in the following way

$$a.b.c.d$$

where a, b, c, d are integers each ranging from 0 to 255. Now you are given two IP addresses, first one in decimal form and second one in binary form, your task is to find if they are the same.

Input Format

Input starts with an integer $T(1 \leq T \leq 100)$, denoting the number of test cases.

Each case starts with two lines. First line contains an IP address in decimal form, and second line contains an IP address in binary form. In binary form, each of the four parts contains 8 digits. Assume that the given addresses are valid.

Output Format

For each case, print the case number and *"Yes"* if they are the same, *"No"* if otherwise.

Sample Input	Sample Output
2 192.168.0.100 11000000.10101000.00000000.11001000 65.254.63.122 01000001.11111110.00111111.01111010	Case 1: No Case 2: Yes