## **Phone List**

Given a list of phone numbers, determine if it is consistent in the sense that no number is the prefix of another. Let's say the phone catalogue listed these numbers:

- Emergency 911
- Alice 97625999
- Bob 91125426

In this case, it's not possible to call Bob, because the central would direct your call to the emergency line as soon as you had dialled the first three digits of Bob's phone number. So this list would not be consistent.



## Input

The first line of input gives a single integer,  $1 \le t \le 40$ , the number of test cases. Each test case starts with n, the number of phone numbers, on a separate line,  $1 \le n \le 10000$ . Then follows n lines with one unique phone number on each line. A phone number is a sequence of at most ten digits.

## **Output**

For each test case, output "YES" if the list is consistent, or "NO" otherwise.

## Sample Input 1 Sample Output 1

2	NO
3	YES
911	
97625999	
91125426	
5	
113	
12340	
123440	
12345	
98346	

Phone List