

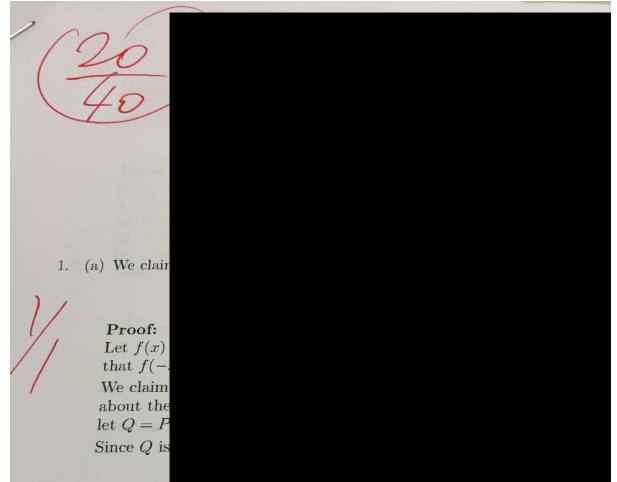
# TLE '17 Contest 6 P2 - Mr. More-than-perfect

Your friend is somehow amazingly consistent at getting more than a perfect score on assignments and exams.

Your professor is handing back some recent papers. You decided to be nice and pick up your friend's papers.

The format of every paper's header is `x/n name` where `x` and `n` are positive integers and `name` is a string. `x` is the score of the paper and `n` is the total score possible.

There are  $N$  papers in a messy pile, and some of the headers are partially covered, hiding some information. In particular, the **right** ends of some of the header information could be missing. That is, a suffix of the header could be missing. For example, `55/50 nath` and `33/` are possible covered headers.



*The header is missing information, but this paper definitely can't be your friend's.*

Given your friend's name and knowing that he must have papers where  $\frac{x}{n} > 100\%$  and a name that matches up with a prefix of his name, could you determine which papers could possibly be his?

## Input Specification

The first line of input will contain  $N$  ( $1 \leq N \leq 10$ ), the number of papers in the pile.

The second line of input will contain a string containing no more than 20 lowercase English characters, which specifies your friend's name.

The next  $N$  lines of input will each contain a string in the form `x/n name`, but the right ending characters might be cut off. It is guaranteed that  $2 \leq x \leq 1000$ ,  $1 \leq n \leq 1000$  and that names will contain no more than 20 lowercase English characters. It is guaranteed that there will be at least one character per line.

## Output Specification

On a separate line for each paper, output `Y` if there is any possibility that the paper could be your friend's, or `N` if it cannot.

## Sample Input

5  
morethanperfect  
11/10 adam  
12/5 morethanper  
8/8 morethan  
10/3  
20

## Sample Output

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N  
Y  
N  
Y  
Y