

## A. A Good Contest

time limit per test

1 second

memory limit per test

256 megabytes

input

standard input

output

standard output

Codeforces user' handle color depends on his rating — it is red if his rating is greater or equal to 2400; it is orange if his rating is less than 2400 but greater or equal to 2200, etc. Each time participant takes part in a rated contest, his rating is changed depending on his performance. Anton wants the color of his handle to become red. He considers his performance in the rated contest to be *good* if he outscored some participant, whose handle was colored red before the contest and his rating has increased after it.

Anton has written a program that analyses contest results and determines whether he performed good or not. Are you able to do the same?

### Input

The first line of the input contains a single integer  $n$  ( $1 \leq n \leq 100$ ) — the number of participants Anton has outscored in this contest.

The next  $n$  lines describe participants results: the  $i$ -th of them consists of a participant handle  $name_i$  and two integers  $before_i$  and  $after_i$  ( $-4000 \leq before_i, after_i \leq 4000$ ) — participant's rating before and after the contest, respectively. Each handle is a non-empty string, consisting of no more than 10 characters, which might be lowercase and uppercase English letters, digits, characters «\_» and «-» characters.

It is guaranteed that all handles are distinct.

### Output

Print «YES» (quotes for clarity), if Anton has performed good in the contest and «NO» (quotes for clarity) otherwise.

### Examples

#### input

Copy

3

Burunduk1 2526 2537

BudAlNik 2084 2214

subscriber 2833 2749

#### output

Copy

YES

#### input

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3

Applejack 2400 2400

Fluttershy 2390 2431

Pinkie\_Pie -2500 -2450

## output

Copy

NO

## Note

In the first sample, Anton has outscored user with handle Burunduk1, whose handle was colored red before the contest and his rating has increased after the contest.

In the second sample, Applejack's rating has not increased after the contest, while both Fluttershy's and Pinkie\_Pie's handles were not colored red before the contest.