

A. A Good Contest

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

Codeforces user's 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
3 Burunduk1 2526 2537 BudAlNik 2084 2214 subscriber 2833 2749
output
YES

input
3 Applejack 2400 2400 Fluttershy 2390 2431 Pinkie_Pie -2500 -2450
output
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.