

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
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.

Codeforces Round #357 (Div. 2)

Finished

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Problem tags

implementation

No tag edit access

→ Contest materials

- Tutorial

