# Finding a Great Room Plan 

Timelimit: 2 sec

## Problem description

As long as we can remember, students have been complaining about the allocation of tutoring groups. They dislike that they cannot be in the same group as their friends, the times are not pleasant to them, just to name the most relevant issues. This year, the organizers of the tutoring group allocation committee decided to hold all tutoring groups at the same time thereby eliminating the possibility of getting a tutoring group at an unfavored time. Because the number of computer science students grew so much in the past years, the committee is unsure whether we have enough room capacity to perform this plan. Moreover, to save energy costs we only want to use a room if there is a minimum number of students in that room. Luckily, they can consult you who knows all the minimum and maximum room capacities. Your task is to find out whether it is possible to find an assignment such that all students can visit a tutoring group and every room is used.

## Input

The input consists of:

- One line with two integers $r, n\left(1 \leq n \leq 10^{5}, 1 \leq r \leq 10^{9}\right)$, the number of students and the number of available rooms.
- $r$ lines follow, each containing two integers $\min _{i}, \max _{i}\left(1 \leq \min _{i} \leq \max _{i} \leq 10^{9}\right)$ the minimum and maximum capacity of the available rooms.

We guarantee that the sum of the $\max _{i} \leq 10^{9}$.

## Output

Print YES in case it is possible to assign the students, otherwise NO.

## Sample input/output

|  | Input | Output |
| :--- | :--- | :--- |
| 4100 |  |  |
| 1020 |  |  |
| 2540 |  |  |
| 30 | 35 | YES |
| 20 | 35 |  |

