## Orders

| Input file: | standard input |
| :--- | :--- |
| Output file: | standard output |
| Time limit: | 1 second |
| Memory limit: | 1024 megabytes |

A factory receives $n$ orders at the beginning of day 1 . The $i$-th order can be described as two integers $a_{i}$ and $b_{i}$, indicating that at the end of day $a_{i}$, the factory needs to deliver $b_{i}$ products to the customer.
Given that the factory can produce $k$ products each day, and at the beginning of day 1 the factory has no product in stock, can the factory complete all orders?

## Input

There are multiple test cases. The first line of the input contains an integer $T(1 \leq T \leq 100)$ indicating the number of test cases. For each test case:

The first line contains two integers $n$ and $k\left(1 \leq n \leq 100,1 \leq k \leq 10^{9}\right)$ indicating the number of orders and the number of products the factory can produce each day.

For the following $n$ lines, the $i$-th line contains two integers $a_{i}$ and $b_{i}\left(1 \leq a_{i}, b_{i} \leq 10^{9}\right)$ indicating that the $i$-th order require the factory to deliver $b_{i}$ products at the end of day $a_{i}$.

## Output

For each test case output one line. If the factory can complete all orders output Yes, otherwise output No.

## Example

|  | standard input |  | standard output |
| :--- | :--- | :--- | :--- |
| 2 |  | Yes |  |
| 4 | 5 | No |  |
| 6 | 12 |  |  |
| 1 | 3 |  |  |
| 6 | 15 |  |  |
| 8 | 1 |  |  |
| 3 | 100 |  |  |
| 3 | 200 |  |  |
| 4 | 300 |  |  |
| 6 | 100 |  |  |

## Note

For the first sample test case, the factory can produce 5 products each day.

- At the end of day 1 , there are 5 products in stock so the factory can complete the 2 -nd order. After delivery, there are 2 products left in stock.
- At the end of day 6 , the factory produces 25 more products. There are 27 products in stock so the factory can complete the 1 -st and the 3 -rd order. After delivery, there are 0 products left in stock.
- At the end of day 8 , the factory produces 10 more products. There are 10 products in stock so the factory can complete the 4 -th order. After delivery, there are 9 products left in stock.

For the second sample test case, the factory can produce 100 products each day.

- At the end of day 3 , there are 300 products in stock and the factory can complete the 1 -st order. After delivery, there are 100 products left in stock.
- At the end of day 4 , the factory produces 100 more products. There are only 200 products in stock so the factory cannot complete the 2-nd order.

