## Functions or Not?

## Objective

In this problem, we touch upon a basic concept that is fundamental to Functional Programming: identifying a relation which represents a valid function.

## Task

You are given a set of unique $(x, y)$ ordered pairs constituting a relation. The $x$-values form the domain, and the $y$-values form the range to which they map. For each of these relations, identify whether they may possibly represent a valid function or not.

Note: You do not have to find the actual function, you just need to determine that the relation may be representative of some valid function.

## Input Format

The first line contains an integer, $T$, denoting the number of test cases. The subsequent lines describe $T$ test cases, and the input for each test case is as follows:

1. The first line contains an integer, $N$, the number of $(x, y)$ pairs in the test case.
2. The $N$ subsequent lines each contain two space-separated integers describing the respective $x$ and $y$ values for each ordered pair.

## Constraints

- $1 \leq T \leq 5$
- $2 \leq \mathrm{N} \leq 100$
- $0 \leq x, y \leq 500$
- $x$ and $y$ are both integers.


## Output Format

On a new line for each test case, print yes if the set of ordered pairs represent a valid function, or no if they do not.

## Sample Input

```
2
3
1 1
2
3
2
4
3
4
```


## Sample Output

## Explanation

Test Case 0:
$N=3$, Ordered Pairs: $(1,1),(2,2),(3,3)$ The set of ordered pairs represents a relation, which could represent a function such as $f: N \rightarrow N, f(x)=x$. Thus, we print yes on a new line.

## Test Case 1:

$N=4$, Ordered Pairs: $(1,2),(2,4),(3,6),(4,8)$
The set of ordered pairs represents a relation, which could represent a function such as $f: N \rightarrow N$, $f(x)=2 x$. Thus, we print yes on a new line.

