**Segments**

|  |  |  |
| --- | --- | --- |
| **Time Limit:** 1000MS |  | **Memory Limit:** 65536K |
|  |  |  |

**Description**

Given *n* segments in the two dimensional space, write a program, which determines if there exists a line such that after projecting these segments on it, all projected segments have at least one point in common.

**Input**

Input begins with a number *T* showing the number of test cases and then, *T* test cases follow. Each test case begins with a line containing a positive integer *n* ≤ 100 showing the number of segments. After that, *n* lines containing four real numbers *x*1 *y*1 *x*2 *y*2 follow, in which (*x*1, *y*1) and (*x*2, *y*2) are the coordinates of the two endpoints for one of the segments.

**Output**

For each test case, your program must output "Yes!", if a line with desired property exists and must output "No!" otherwise. You must assume that two floating point numbers *a* and *b* are equal if |*a* - *b*| < 10-8.

**Sample Input**

3

2

1.0 2.0 3.0 4.0

4.0 5.0 6.0 7.0

3

0.0 0.0 0.0 1.0

0.0 1.0 0.0 2.0

1.0 1.0 2.0 1.0

3

0.0 0.0 0.0 1.0

0.0 2.0 0.0 3.0

1.0 1.0 2.0 1.0

**Sample Output**

Yes!

Yes!

No!

**Source**

[Amirkabir University of Technology Local Contest 2006](http://poj.org/searchproblem?field=source&key=Amirkabir+University+of+Technology+Local+Contest+2006)