

## Problem F

### Production Management

Time Limit: 1 second

There are different phases to manufacture a product. Each phase can be performed automatically in an automated industrial conveyor belt, deployed as a segment in the two-dimensional space of the factory floor.



Each conveyor belt periodically sends its operating status to the Automated Central Management (ACM). The ACM is actually an antenna which is deployed along a straight line in the two-dimensional space of the factory floor.

A conveyor belt can transmit its operating status to any point in its projected segment on the line containing the antenna.

Please verify if we can find a position in the two-dimensional space of the factory floor to deploy the ACM so that the antenna can receive signals from all automated industrial conveyor belts.

### Input

Each input contains multiple test cases. The first line of input is an integer  $T$  -- number of test cases ( $1 \leq T \leq 100$ ). For each test case, the first line contains a positive integer  $N \leq 100$  denoting the number of conveyor belts in the factory. Each of the following  $N$  lines of a test case contains four real numbers  $x_1 y_1 x_2 y_2$ , where  $(x_1, y_1)$  and  $(x_2, y_2)$  are the coordinates of the two endpoints of the conveyor belt. All real numbers have at most eight digits after the decimal point.

### Output

For each test-case, display in a line YES if we can find a position for the antenna, and NO otherwise.

### Sample Input

### Sample Output

2	NO
4	YES
2 5 3 6	
3 6 4 6	
4 6 5 5	
6 1 7 1	
2	
0 0 1 1	
2 2 3 3	