



HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP 0

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# A. Square of Rectangles

time limit per test: 1 second memory limit per test: 256 megabytes

Aryan is an ardent lover of squares but a hater of rectangles (Yes, he knows all squares are rectangles). But Harshith likes to mess with Aryan. Harshith gives Aryan three rectangles of sizes  $l_1 imes b_1$  ,  $l_2 imes b_2$  , and  $l_3 imes b_3$  such that  $l_3\le l_2\le l_1$  and  $b_3\le b_2\le b_1$  . Aryan, in order to defeat Harshith, decides to arrange these three rectangles to form a square such that no two rectangles overlap and the rectangles are aligned along edges. Rotating rectangles is not allowed. Help Aryan determine if he can defeat Harshith.

#### Input

Each test contains multiple test cases. The first line contains the number of test cases t (  $1 \leq t \leq 100$ ). The description of the test cases follows.

Each test case contains a single line with 6 space-separated integers  $l_1, b_1, l_2, b_2, l_3$ , and  $b_3$  (  $1 \leq l_3 \leq l_2 \leq l_1 \leq 100,$   $1 \leq b_3 \leq b_2 \leq b_1 \leq 100)$  — the dimensions of the three rectangles.

#### Output

For each testcase, print "YES" if the rectangles can be arranged to form a square; otherwise, "NO".

You can output the answer in any case (upper or lower). For example, the strings "yEs", "yes", "Yes", and "YES" will be recognized as positive responses.

### Example



#### Note

In the second test case, the three rectangles  $5 \times 3$ ,  $5 \times 1$ , and  $5 \times 1$  can be arranged as follows to form a square.

### Codeforces Round 1033 (Div. 2) and CodeNite 2025

#### **Finished**

### Practice



### → Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

## → Clone Contest to Mashup

You can clone this contest to a mashup.

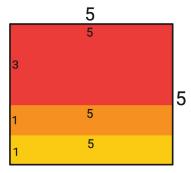
Clone Contest



ightarrow Last submissions			
Submission	Time	Verdict	
325459126	Jun/21/2025 18:42	Accepted	



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• Statements #2 (en)	36		
• Tutorial (en)	36		



In the fourth test case, it can be proven that the rectangles can't be arranged to form a square with the given constraints.

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