Problem C. Square?

Time Limit 1000 ms
Mem Limit 262144 kB

You are given 4 sticks of lengths a, b, c, and d. You can not break or bend them.

Determine whether it is possible to form a square* using the given sticks.

*A *square* is defined as a polygon consisting of 4 vertices, of which all sides have equal length and all inner angles are equal. No two edges of the polygon may intersect each other.

Input

The first line contains a single integer t ($1 \le t \le 10^4$) — the number of test cases.

The only line of each test case contains four integers a, b, c, and d ($1 \le a, b, c, d \le 10$) — the lengths of the sticks.

Output

For each test case, print "YES" if it is possible to form a square using the given sticks, and "NO" otherwise.

You may print each letter in any case (uppercase or lowercase). For example, the strings "yEs", "yes", "Yes", and "YES" will all be recognized as a positive answer.

Examples

Input	Output
7 1 2 3 4 1 1 1 1 2 2 2 2 1 2 1 2 1 1 5 5 5 5 5 5 4 10 5 9	NO YES YES NO NO YES NO

Note

In the first test case, we can prove that we can't make a square.

In the second, third, and sixth test cases, we can make a square like this: