M: Triangle of Triangles

Time Limit: 2 seconds

Audrey has a favorite triangle. Specifically, the angles of the triangle are a_1 degrees, b_1 degrees, and c_1 degrees.

Ruan Mei only likes two types of triangles. Specifically, she only likes a triangle if the degrees of the three angles are either a_2 degrees, b_2 degrees, and c_2 degrees; or a_3 degrees, b_3 degrees, and c_3 degrees. The order of the angles does not matter.

Audrey and Ruan Mei only like multiples of 5, so it is guaranteed that the degree measures of all of the angles in their favorite triangles are divisible by 5.

Audrey wants to draw a line segment starting at one vertex of her favorite triangle and ending at the opposite side of that vertex such that, if she cuts the triangle along that line segment, she divides the triangle into two smaller triangles, both of which Ruan Mei likes. Is this possible?

Input

The first line contains a single integer, T ($1 \leq T \leq 10^4$). T test cases follow.

The description for each test case spans three lines.

The first line contains three integers, a_1, b_1, and c_1 ($5 \leq a_1 \leq b_1 \leq c_1 \leq 170, a_1 + b_1 + c_1 = 180$).

The second line contains three integers, a_2, b_2, and c_2 ($5 \leq a_2 \leq b_2 \leq c_2 \leq 170, a_2+b_2+c_2 = 180$).

The third line contains three integers, a_3, b_3, and c_3 ($5 \leq a_3 \leq b_3 \leq c_3 \leq 170, a_3 + b_3 + c_3 = 180$).

It is guaranteed at least one of $a_2 \neq a_3$, $b_2 \neq b_3$, or $c_2 \neq c_3$. It is furthermore guaranteed that all of these values are divisible by 5.

Output

Output T lines. On the i^{th} line, output the answer for the i^{th} test case.

Output `YES` if it is possible for Audrey to cut her favorite triangle exactly once to form two triangles, both of which Ruan Mei likes. Otherwise, output `NO`.

Sample Input 1	Sample Output 1
3 30 60 90 15 30 135 45 45 90 30 60 90 15 30 135 40 50 90 45 45 90 45 45 90 5 10 165	YES NO YES