

Valid Triangles

Problem Code: **FLOW013**

Write a program to check whether a triangle is valid or not, when the three angles of the triangle are the inputs. A triangle is valid if the sum of all the three angles is equal to 180 degrees.

Input

The first line contains an integer **T**, total number of testcases. Then follow **T** lines, each line contains three angles **A**, **B** and **C** of triangle separated by space.

Output

Display 'YES' or 'NO' if the triangle is Valid or not respectively.

Constraints

- $1 \leq T \leq 1000$
 - $40 \leq A, B, C \leq 180$
-

Example

Input

```
3
40 40 100
45 45 90
180 0 0
```

Output

```
YES
YES
NO
```