

Problem E: Tetrahedron Inequality

It is well known that you cannot make a triangle with non-zero area whose sides have lengths 1, 2, 3. Can you make a tetrahedron with non-zero volume whose edges have lengths 1, 2, 3, 4, 5, 6?

Input Specification

The first line of input contains an integer $0 < n \leq 10000$, the number of lines to follow. Each of the next n lines contains six positive integers separated by spaces, the lengths of the edges of the desired tetrahedron. The length of each edge is no greater than one million.

Sample Input

```
1
1 2 3 4 5 6
```

Output Specification

Output n lines, each containing the word YES if it is possible to construct a tetrahedron with non-zero volume with the given edge lengths, or the word NO if it is not possible.

Output for Sample Input

```
NO
```

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