Problem B. Greater Average

Time Limit	1000 ms
Code Length Limit	50000 B
OS	Linux

You are given 3 numbers A, B, and C.

Determine whether the **average** of A and B is **strictly greater** than C or not?

NOTE: Average of A and B is defined as $\frac{(A+B)}{2}$. For example, average of 5 and 9 is 7, average of 5 and 8 is 6.5.

Input Format

- The first line of input will contain a single integer T, denoting the number of test cases.
- Each test case consists of 3 integers A, B, and C.

Output Format

For each test case, output `YES` if average of A and B is strictly greater than C, `NO` otherwise.

You may print each character of the string in uppercase or lowercase (for example, the strings `YeS`, `yEs`, `yes` and `YES` will all be treated as identical).

Constraints

- $1 \leq T \leq 1000$
- $1 \leq A, B, C \leq 10$

Sample 1

Input	Output
5 5 9 6 5 8 6 5 7 6 4 9 8 3 7 2	YES YES NO NO YES

Test case 1: The average value of 5 and 9 is 7 which is strictly greater than 6.

Test case 2: The average value of 5 and 8 is 6.5 which is strictly greater than 6.

Test case 3: The average value of 5 and 7 is 6 which is not strictly greater than 6.

Test case 4: The average value of 4 and 9 is 6.5 which is not strictly greater than 8.

Test case 5: The average value of 3 and 7 is 5 which is strictly greater than 2.