Greater Average

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

Explanation:

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.