F3 – Equality

You are grading an arithmetic quiz. The quiz asks a student for the sum of the numbers. Determine if the student taking the quiz got the question correct.

Input

The first and the only line of input contains a string of the form: `a + b = c`. It is guaranteed that `a`, `b`, and `c` are single-digit positive integers. The input line will have exactly 9 characters, formatted exactly as shown, with a single space separating each number and arithmetic operator.

Output

Print, on a single line, `YES` if the sum is correct; otherwise, print `NO`.

Input and output samples

Input:
1 + 2 = 3

Output:
YES

Input:
2 + 2 = 5

Output:
NO