ICPC Assiut University Community
Newcomers Training ,Do Your Best

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HOME   TOP   CATALOG   CONTESTS   GYM   PROBLEMSET   GROUPS   RATING   EDU   API   CALENDAR   HELP

PROBLEMS   SUBMIT CODE   MY SUBMISSIONS   STATUS   STANDINGS   CUSTOM INVOCATION

D. Ali Baba and Puzzles

time limit per test: 1 second❓
memory limit per test: 256 megabytes
input: standard input
output: standard output

One day, Ali Baba had an easy puzzle that he couldn't solve. The puzzle consisted of 4 numbers and his task was to check whether he could get the fourth number using arithmetic operators $(+, -, \times)$ between the other three numbers; so that each operator is used **only once**.

$$a \square b \square c = d$$

Can you solve this tricky puzzle for him?

Input

Only one line containing four numbers a, b, c and d $(-10^9 \le a, b, c \le 10^9)$,($-10^{18} \le d \le 10^{18}$).

Output

Print "YES" (without quotes) if you get the fourth number using arithmetic operators, otherwise, print "NO" (without quotes).

Examples

input	Copy
3 4 5 23	

output	Copy
YES	

input	Copy
9 5 3 7	

output	Copy
YES	

input	Copy
1 2 3 1	

output	Copy
NO	

Assiut University Training – Newcomers

Public

Participant

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→ **About Group**

ICPC Assiut community

Group website

→ **Group Contests** ⌄

- Sheet #10 (General Hard)
- Sheet #9 (General medium)
- Sheet #8 (General easy)
- Sheet #7 (Recursion)
- Sheet #6 (Math - Geometry)
- Sheet #5 (Functions)
- Sheet #4 (Strings)
- Contest #3.1
- Sheet #3 (Arrays)
- Contest #2
- Sheet #2 (Loops)
- Contest #1
- Sheet #1 (Data type - Conditions)

Contest #1

Finished

Practice

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→ **About Time Scaling** ⌄