Problem H. Snuke Density

Input file:	*standrd input*
Output file:	*standard output*
Time limit:	1 second
Memory limit:	256 mebibytes

$c!$ Snukes are sleeping in a rectangular room with dimensions $a! \times b!$. Determine whether the Snuke Density of this room, $\frac{c!}{a!b!}$, is an integer or not.

Input

First line of the input contains three integers a, b and c.

Constraints:

- $1 \leq a, b, c \leq 10^{11}$

Output

If $\frac{c!}{a!b!}$ is an integer, print "YES". Otherwise print "NO".

Examples

standrd input	standard output
2 3 4	YES
100000000000 100000000000 100000000000	NO

Note

In sample 1, $\frac{4!}{2!3!} = 2$ is an integer.