C. Three Garlands

time limit per test: 2 seconds
memory limit per test: 256 megabytes
input: standard input
output: standard output

Mishka is decorating the Christmas tree. He has got three garlands, and all of them will be put on the tree. After that Mishka will switch these garlands on.

When a garland is switched on, it periodically changes its state — sometimes it is lit, sometimes not. Formally, if i-th garland is switched on during x-th second, then it is lit only during seconds x, $x + k_i$, $x + 2k_i$, $x + 3k_i$ and so on.

Mishka wants to switch on the garlands in such a way that during each second after switching the garlands on there would be at least one lit garland. Formally, Mishka wants to choose three integers x_1, x_2 and x_3 (not necessarily distinct) so that he will switch on the first garland during x_1-th second, the second one — during x_2-th second, and the third one — during x_3-th second, respectively, and during each second starting from $max(x_1, x_2, x_3)$ at least one garland will be lit.

Help Mishka by telling him if it is possible to do this!

Input

The first line contains three integers k_1, k_2 and k_3 ($1 \le k_i \le 1500$) — time intervals of the garlands.

Output

If Mishka can choose moments of time to switch on the garlands in such a way that each second after switching the garlands on at least one garland will be lit, print `YES`.

Otherwise, print `NO`.

Examples

input
2 2 3
output
YES

input
4 2 3
output
NO

Note

In the first example Mishka can choose $x_1 = 1$, $x_2 = 2$, $x_3 = 1$. The first garland will be lit during seconds $1, 3, 5, 7, ...$, the second — $2, 4, 6, 8, ...$, which already cover all the seconds after the 2-nd one. It doesn't even matter what x_3 is chosen. Our choice will lead third to be lit during seconds $1, 4, 7, 10, ...$, though.

In the second example there is no way to choose such moments of time, there always be some seconds when no garland is lit.