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The Virtual Learning Environment for Computer Programming

## Marble exchanges

Dinovè Concurs de Programació de la UPC - Semifinal (2021-06-23)
Edgar has a collection of red, blue and yellow marbles. As many times as he wishes, he can only make one operation: exchanging two marbles of different colours (one of each colour) for one of the remaining colour. Given ( $R, B, Y$ ) (the number of marbles of each colour), can you determine whether Edgar will be capable of keeping just one of the marbles?
For instance, from $(1,1,2)$ he can move to $(2,0,1)$, from there to $(1,1,0)$, and from there to $(0,0,1)$. By contrast, it is not difficult to see that from $(1,1,3)$ he cannot reach any of $(1,0,0),(0,1,0)$ or $(0,0,1)$.


## Input

Input consists of several cases, each one with three integers $R, B$ and $Y$, all of them between 0 and $10^{9}$. Assume $R+B+Y>0$.

## Output

For every case, print "YES" if Edgar can achieve a situation where $R^{\prime}+B^{\prime}+Y^{\prime}=1$, and print " NO " otherwise. Obviously, none of the three variables can go below zero at any moment.

## Sample input

$\begin{array}{lll}1 & 1 & 2 \\ 1 & 1 & 3 \\ 0 & 1 & 0 \\ 7 & 4 & 2\end{array}$

## Sample output

YES
NO
yes
YES

## Problem information

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