Mock CCC '22 1 S1 - Big Mattress Tournament

Time limit: 0.25s **Memory limit:** 1G

Kaity is an administrator for the Big Mattress Tournament, where folks compete to see who can make the biggest mattress.

To ensure every person has an even playing field when assembling mattresses, they will be given the same materials to assemble their mattresses.

Specifically, each participant will be given a 1×1 tiles, b 1×2 tiles, and c `L` tiles, which are 2×2 tiles with the top-right square removed.

Determine if there is some positive integer m such that it is possible to assemble a $2 \times m$ mattress with the given tiles. You must use all of the tiles, you may not rotate or reflect any of the tiles, and the mattress must be exactly $2 \times m$.

Constraints

$1 \leq T \leq 10^4$

$0 \leq a, b, c \leq 10^8$

$a + b + c > 0$

In tests worth 14 marks, $a + b + c \leq 15$.

Input Specification

The first line contains a single integer T.

T lines follow, each containing three integers, a, b, and c.

Output Specification

Output T lines. On the ith line, output `YES` if it is possible to make a mattress. Output `NO` otherwise.

Sample Input

```
4
2 0 0
0 2 0
1 0 1
0 1 0
```

Sample Output

```
YES
YES
YES
NO
```