

Three Integers

Input file: **standard input**
Output file: **standard output**
Time limit: 1 second
Memory limit: 512 megabytes

You are given three non-negative integers a , b , and c . Find three positive integers x , y , and z that satisfy $x \bmod y = a$, $y \bmod z = b$, and $z \bmod x = c$.

Input

The first line contains an integer t ($1 \leq t \leq 10^5$) — the number of test cases.

Each test case contains 3 integers a, b, c ($0 \leq a, b, c \leq 10^9$) on a single line.

Output

For each test case, if there are such three integers satisfying the condition, output “YES”, then output the three integers x, y, z ($1 \leq x, y, z \leq 10^{18}$) on the following line, or “NO” otherwise.

Example

standard input	standard output
4	YES
0 0 0	1 1 1
1 2 3	YES
6 6 6	5 2 8
11 3 3	NO
	YES
	11 45 14