Another Number

Given integers A, B, C, and D. Find whether there is X such that (A*X + B)%D = C.

Format Input
The input begins with an integer T indicating the number of test cases. In each test case, there is 4 integers A, B, C, and D.

Format Output
For each test case, output YES if there is X such that AX + B = C % D. Otherwise output NO.

Constraints
1 <= T <= 10
0 <= A,B,C,D <= 100000

Sample Input (standard input)	**Sample Output** (standard output)
2 1 2 3 4 3 100 0 9900	Case #1: YES Case #2: NO