Age

X years ago, Jojo's age was M times of Bibi's age. Y years from now, his age will be N times of her age. Your task is to check whether Z years from now, his age will be P times of her age.

Format Input
The input begins with an integer T indicating the number of test cases. In each test case, there are 6 positive integers X Y Z M N P as described above. You may assume that their age now are integer.

Format Output
For each test case, output YES if Z years from now, Jojo's age will be P times of Bibi's age. Otherwise, output NO.

Constraints
1 <= T <= 10
1 <= X,Y,Z,M,N,P <= 1000

Sample Input	Sample Output
2 12 8 3 6 2 3 8 10 10 6 4 4	Case #1: NO Case #2: YES