## American Computer Science League <br> 2003-2004 <br> All-Star Contest

## ADJACENT FRACTIONS

PROBLEM: Two fractions are defined to be adjacent if $\frac{A}{B}-\frac{C}{D}=\frac{1}{N}$.
INPUT: There will be 5 input lines. Each line will consist of 4 integers representing A,B,C, and D.
OUTPUT: For each input line determine if the fractions are adjacent fractions. If they are, print their difference in $\frac{1}{N}$ form written as $1, N$. If they are not adjacent fractions, print "NOT ADJACENT".

## SAMPLE INPUT

1. $1,11,1,12$
2. $20,19,19,19$
3. $3,4,2,3$

SAMPLE OUTPUT

1. 1,132
2. 1,19
3. 1,12
