/* This program solves for intersection of */
/* y=ax+b and y=cx+d */
/* There is a special case for which this code fails. */
/* Can you find and correct it? */
#include <stdio.h>
#include <math.h>
int main(void)
{
    double a,b,c,d,x,y;
    printf(" Please enter a \n");
    scanf("%lf",&a);
    printf(" Please enter b \n");
    scanf("%lf",&b);
    printf(" Please enter c \n");
    scanf("%lf",&c);
    printf(" Please enter d \n");
    scanf("%lf",&d);
    x=(d-b)/(a-c);
    y=a*x+b;
    printf("\n Lines intersect at %lf , %lf",x,y);
    printf("\n ");
    return 0;
}