```
406410114    UVA10642 Can You Solve It?
// t num
//src_circle x,y  oth_circle x,y
// only right or left_top

//0,0
//->0,1->1,0
//->0,2->1,1->2,0
//->0,3->1,2->2,1->3,0
//...
#include <bits/stdc++.h>
using namespace std;

int main(){
        long long int i,j,k,src_x,src_y,dex_x,dex_y,t;
        cin >> t;
        for ( i = 1; i <=t ; i++ ){
                cin >>src_x>>src_y>>dex_x>>dex_y;

                long long int now_x =src_x ,now_y = src_y,step = 0  ;

                if (  now_x== dex_x && now_y ==dex_y )
                     cout << "Case " << i << ": " <<step<<endl;
                else {
                        while ( !(now_x== dex_x && now_y ==dex_y) ){
                                if ( now_y == 0 ){
                                        now_y = now_x+1;
                                        now_x = 0;
                                }//if
                                else {
                                        now_x++;
                                        now_y--;
                                }//else
                                step++;
                        }//while
                        cout << "Case " << i << ": " <<step<<endl;
                }//else


        }//for
        return 0;
}//main
```