```
406410114 UVA10242 Fourth Point!!
//4 x, y
#include <bits/stdc++.h>
struct Point{
        double x;
        double y;
};
using namespace std;
int main(){
        int i,j,k;
        Point point[4];
        while( cin >> point[0].x>>point[0].y >> point[1].x>>point[1].y
                           >> point[2].x>>point[2].y >> point[3].x>>point[3].y) {
                 Point vec[3] ;
                 if ( point[1].x == point[3].x && point[1].y == point[3].y ) {
                          swap( point[3].x,point[2].x );
                          swap( point[3].y,point[2].y );
                 }//if
                 if (point[0].x == point[2].x && point[0].y == point[2].y)
                          swap( point[0].x,point[1].x );
                          swap( point[0].y,point[1].y );
                 }//if
                 if ( point[0].x == point[3].x && point[0].y == point[3].y ){
                          swap( point[2].x,point[3].x );
                          swap( point[2].y,point[3].y );
                          swap( point[0].x,point[1].x );
                          swap( point[0].y,point[1].y );
                 }//if
                 vec[0].x = point[1].x - point[0].x;
                 vec[0].y = point[1].y - point[0].y;
vec[1].x = point[3].x - point[2].x;
vec[1].y = point[3].y - point[2].y;
                 vec[2].x = point[0].x + vec[1].x;
                 vec[2].y = point[0].y + vec[1].y;
                 cout << fixed << setprecision(3) <<vec[2].x << " "<< vec[2].y<<endl;</pre>
        } //while
        return 0 ;
}//amin()
```