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#include <iostream>
#include <cmath>
#include <cstring>
#include <iomanip>
using namespace std;

double calcDistance(int x1, int y1, int x2, int y2)
{
   return sqrt(pow(x2 - x1, 2) + pow(y2 - y1, 2));
}

int main()
{
        int x1 = 1, y1 = 3;
        int x2 = 2, y2 = 6;
        int x3 = 5, y3 = 4;

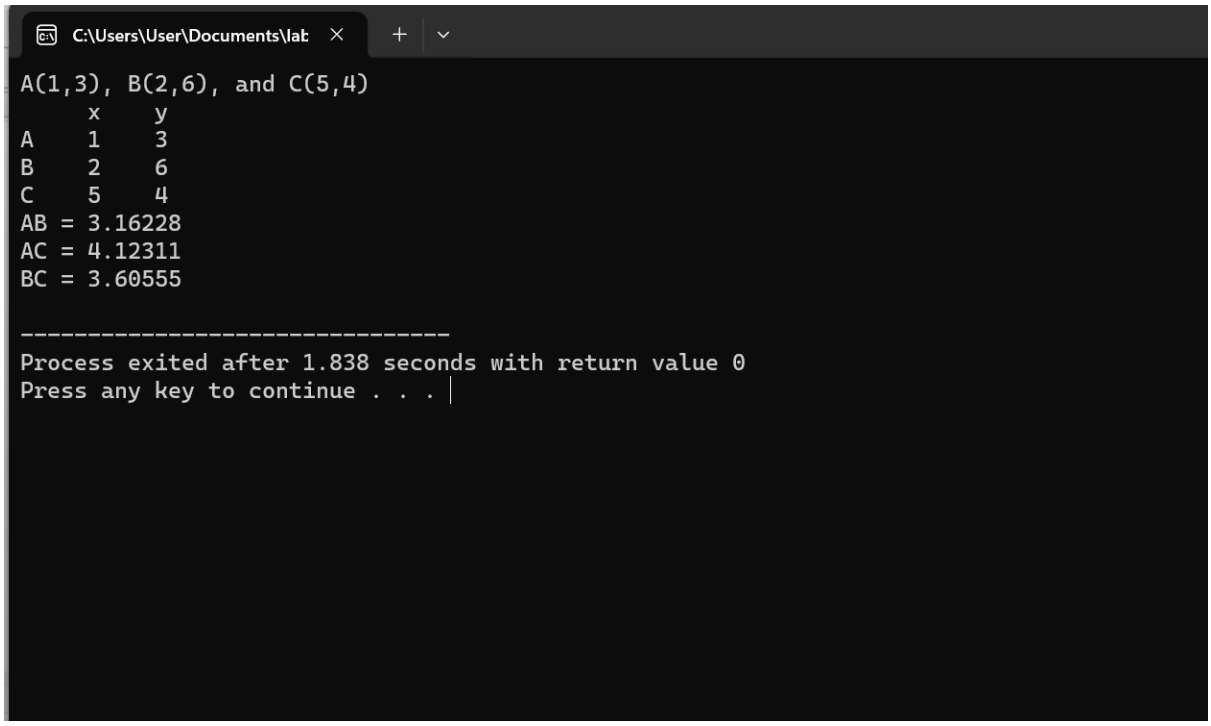
        double distanceAB = calcDistance(x1, y1, x2, y2);
         double distanceAC = calcDistance(x1, y1, x3, y3);
         double distanceBC = calcDistance(x2, y2, x3, y3);

        char pointA[10]= "A(1,3), ";
        char pointB[20]= "B(2,6), ";
        cout<<strcat(pointA, pointB);
        char and1[10]= "and ";
        char pointC[10]= "C(5,4)";
        cout<<strcat(and1, pointC)<<endl;

        cout<<setw(6)<<'x'<<setw(5)<<'y'<<endl;
        cout<<'A'<<setw(5)<<x1<<setw(5)<<y1<<endl;
        cout<<'B'<<setw(5)<<x2<<setw(5)<<y2<<endl;
        cout<<'C'<<setw(5)<<x3<<setw(5)<<y3<<endl;

        cout << "AB = " << distanceAB <<endl;
         cout << "AC = " << distanceAC <<endl;
         cout << "BC = " << distanceBC <<endl;

         return 0;
}
```


C:\Users\User\Documents\lat
A(1,3), B(2,6), and C(5,4)
x y
A 1 3
B 2 6
C 5 4
AB = 3.16228
AC = 4.12311
BC = 3.60555
Process exited after 1.838 seconds with return value 0
Press any key to continue . . .