

IAP Midterm 4

1. Read the four values corresponding to the x and y axes of two points in the plane, p1 (x1, y1) and p2 (x2, y2) and calculate the distance between them, showing four decimal places after the comma, according to the formula:

$$\sqrt{(x2 - x1)^2 + (y2 - y1)^2}$$

If the user enters the same point two times, the program should print a warning message "You entered a double point".

Example:

-2.5 0.4	16.1484
12.1 7.3	

2. What is the output of the following programs?

<pre>int angle; angle=0; if (angel > 5) angle = angle + 5; else if (angle > 2) angle = angle + 10; else angle = angle + 15; cout<<angle<<endl;</pre>	<pre>int number; number=0; if (number == 0) cout<<"Bob"<<endl; else cout<<"Carol"; cout<<"Ted"<<endl; cout<<"Alice"<<endl;</pre>	<pre>int a=-1, b=1, c=1; if (a>-2) if (b>0) c = 2; else c = 3; cout<<c<<endl;</pre>
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