

[Total distance across locations]

Given the locations identified by object IDs, find the total distance across all locations. The distance between two locations (x1, y1) and (x2, y2) is calculated as below:

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

Write a Python program to input a sequence of locations with object IDs, and output the distance from one location to the next location and the final path with total distance. The sequence is irrespective of the name but based on the data input order. The result is rounded to 2 decimal places in display. The formats are shown as below.

Sample Input	Sample Output
A1,41.16,24.88 A2,73.04,84.98 A3,64.62,88.43 A4,85.34,47.73 end	(A1->A2):68.03 (A2->A3):9.10 (A3->A4):45.67 A1->A2->A3->A4:122.80
A1,97.05,36.74 A2,88.76,35.59 A3,89.6,36.68 A4,85.02,44.73 A5,36.65,42.24 end	(A1->A2):8.37 (A2->A3):1.38 (A3->A4):9.26 (A4->A5):48.43 A1->A2->A3->A4->A5:67.44