Compute the Perimeter of a Polygon ★

Points: 553.180000000001 Rank: 1150

Problem Submissions Leaderboard RATE THIS CHALLENGE **** You are given the cartesian coordinates of a set of points in a ${f 2D}$ plane. When traversed sequentially, these points form a Polygon, ${m P}$, which is not self-intersecting in nature. Can you compute the perimeter of polygon ${m P}$? **Input Format** The first line contains an integer, N, denoting the number of points. The N subsequent lines each contain 2 space-separated integers denoting the respective $m{x}$ and $m{y}$ coordinates of a point. Constraints ullet No $oldsymbol{2}$ points are coincident, and polygon $oldsymbol{P}$ is obtained by traversing the points in a clockwise direction. • $3 \le N \le 1000$ • $0 \le x, y \le 1000$ **Output Format** For each test case, print the perimeter of $m{P}$ (correct to a scale of one decimal place). Note: Do not add any leading/trailing spaces or units. Sample Input 4 0 0 0 1 1 1 Sample Output **Explanation** The given polygon is a square, and each of its sides are f 1 unit in length. perimeter(P)=1+1+1+1=4, so we print f 4 on a new line.

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8 return (a,b)
9 print $ snd $ foldl f (last ps, 0) ps
10 where f ((x0,y0), s) (x1,y1) = ((x1,y1), s + (sqrt $ (x1-x0)^2 + (y1-y0)^2))
11
12

Line: 12 Col: 1

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