Density-based Technique
Calculate the Local Outlier Factor (LOF)

- Given four points: $P_1(1,0)$, $P_2(2,0)$, $P_3(1,1)$, $P_4(2,2.5)$. Calculate the Local Outlier Factor (LOF) for each point and find the top-1 outliers. Use a **k** value of 2 and Euclidean Distance as the distance function.