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EXERCISE-76 .Closest-Pair
PROGRAM;
import math
def distance(p1, p2):
  return math.sqrt((p1[0] - p2[0])**2 + (p1[1] - p2[1])**2)
def closest pair(points):
  min_dist = float('inf')
  closest_pair = None
  n = len(points)
  for i in range(n):
    for j in range(i+1, n):
       dist = distance(points[i], points[j])
      if dist < min dist:
         min dist = dist
         closest pair = (points[i], points[j])
  return closest pair
points = [(1, 2), (3, 4), (5, 6), (7, 8)]
closest_pair = closest_pair(points)
print("Closest pair:", closest pair)
OUTPUT
Closest pair: ((1, 2), (3, 4))
TIME COMPLEXITY O(n_2)
```