```
140)Closest pair of points
CODE:
import math
def euclidean_distance(p1, p2):
              return math.sqrt((p1[0] - p2[0])**2 + (p1[1] - p2[1])**2)
def closest_pair_brute_force(points):
              min_distance = float('inf')
              closest_pair = None
              for i in range(len(points)):
                             for j in range(i + 1, len(points)):
                                            distance = euclidean_distance(points[i], points[j])
                                            if distance < min_distance:</pre>
                                                          min_distance = distance
                                                          closest_pair = (points[i], points[j])
              return closest_pair
# Sample set of points
points = [(10, 0), (11, 5), (5, 3), (9, 3.5), (15, 3), (12.5, 7), (6, 6.5), (7.5, 6.5), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15, 3), (15
4.5)]
closest_pair = closest_pair_brute_force(points)
print(closest_pair)
       C:\Windows\system32\cmd.e: X
 ((9, 3.5), (7.5, 4.5))
Press any key to continue . .
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TIME COMPLEXITY: O(n2)