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76)Closest Pair
CODE:
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 result = closest pair(points)
print("Closest pair:", closest pair result)
```

OUTPUT:

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Closest pair: ((1, 2), (3, 4))
Press any key to continue . . .
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TIME COMPLEXITY : $O(n^2)$