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Program:
def orientation(p, q, r):
  val = (q[1] - p[1]) * (r[0] - q[0]) - (q[0] - p[0]) * (r[1] - q[1])
  if val == 0:
    return 0
  elif val > 0:
    return 1
  else:
    return -1
def convex_hull_brute_force(points):
  n = len(points)
  if n < 3:
    return points
  hull = []
  for i in range(n):
    for j in range(i + 1, n):
       left = False
       right = False
       for k in range(n):
         if k == i or k == j:
           continue
         orient = orientation(points[i], points[j], points[k])
         if orient > 0:
           left = True
         elif orient < 0:
           right = True
         if left and right:
           break
       if not (left and right):
         if points[i] not in hull:
           hull.append(points[i])
         if points[j] not in hull:
           hull.append(points[j])
  # Sorting the points of the convex hull
  hull.sort(key=lambda p: (p[0], p[1]))
  return hull
# Example usage:
points = [(0, 3), (2, 2), (1, 1), (2, 1), (3, 0), (0, 0), (3, 3)]
hull = convex_hull_brute_force(points)
print("Convex Hull:", hull)
Output:
  "C:\Program Files\Python312\python.exe" "C:\Work Space\DAA\DAA COADS.PYTHON\program 80.py"
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Time complexity: O(n^3)
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Process finished with exit code 0