|  |  |
| --- | --- |
| Inputs | [(1,1),(2,2),(1,3),(0,2);(0,1),(3,3),(1,6),(-2,4);(2,3),(5,3),(4,8);(7,7),(6,8),(4,11),(3,10),(2,5),(3,3),(3,3),(5,5),(5,5),(7,7);(4,5),(7,8),(6,11),(3,8);(2,6),(5,8),(5,13),(1,11);(0,6),(2,10),(2,12),(-1,13),(-2,11),(-2,7);(-5,5),(-1,5),(-1,10),(-1,10),(-5,12);(-4,4),(-1,8),(-2,10),(-4,4);(-5,3),(-3,3),(-1,3),(-3,7),(-5,6);(-2,-1),(-4,-4),(-4,-7),(-2,-9),(-2,-4),(-2,-1);(-2,-7),(-4,-10),(-1,-12);(-1,-6)(-3,-6),(-2,-9),(1,-11),(3,-6),(0,-6),(-1,-6);(1,-9),(4,-2),(7,-5),(4,-11);(5,-5),(1,-3),(4,1),(7,2),(7,-6);(-1,1),(-2,2),(3,5),(4,4)] |
| Number\_Polygons | 16 |
| Total\_Number\_Points | 78 |
| Minimum\_X | -5 |
| Maximum\_X | 7 |
| Minimum\_Y | -12 |
| Maximum\_Y | 13 |
| Enclosing\_Rectangle | (-5,-12),(7,-12),(7,13),(-5,13) |
| Total\_Redundant\_Points | 13 |
| Quit | Quit Program |
| **Polygon\_Points** 15 | (1,-3),(4,1),(7,2),(7,-6) |
| **Point\_Polygons** (-2,-9) | 11,13 |
| **List\_Polygons\_Points More** 4 | 4,7 |
| **List\_Polygons\_Points Less** 4 | 3,9,12 |
| **List\_Polygons\_Points Equal** 4 | 1,2,5,6,8,10,11,13,14,15,16 |
| **List\_Points\_Polygons More** 1 | (3,3),(-2,-9) |
| **List\_Points\_Polygons Less** 2 | (1,1),(2,2),(1,3),(0,2),(0,1),(1,6),(-2,4),(2,3),(5,3),(4,8),(7,7),(6,8),(4,11),(3,10),(2,5),(5,5),(7,7),(4,5),(7,8),(6,11),(3,8),(2,6),(5,8),(5,13),(1,11),(0,6),(2,10),(2,12),(-1,13),(-2,11),(-2,7),(-5,5),(-1,5),(-1,10),(-5,12),(-4,4),(-1,8),(-2,10),(-4,4),(-5,3),(-3,3),(-1,3),(-3,7),(-5,6),(-2,-1),(-4,-4),(-4,-7),(-2,-4),(-2,-1),(-2,-7),(-4,-10),(-1,-12),(-1,-6),(-3,-6),(1,-11),(3,-6),(0,-6),(-1,-6),(1,-9),(4,-2),(7,-5),(4,-11),(5,-5),(1,-3),(4,1),(7,2),(7,-6),(-1,1),(-2,2),(3,5),(4,4) |
| **List\_Points\_Polygons Equal** 2 | (3,3),(-2,-9) |
| **Polygon\_Perimeter** 12 | 12.3101 |
| **List\_Triangles** | 3,9,12 |
| **List\_Rectangles** | 1,2 |
| **List\_Trapezoid** | 8,11 |
| **Inside\_Rectangle (-10,10),(-10,-10),(10,-10),(10,10)** | 1,2,3,9,10,11,15,16 |
| **Inside\_Rectangle** (-7,0),(0,7),(7,0),(0,-7) | 1,2 |
| **Inside\_Circle** (0,0),9 | 1,2,3,10,16 |
| **Polygon\_Area** 7 | 20.5 |
| **Polygons\_Area\_Range** 10,20 | 2,5,6,10,11,13 |
| **Polygons\_Enclosing\_Point** (-1.5,9) | 7,8 ,9 |
| **Is\_Intersecting** 14,15 | True |
| **Intersecting\_Group** 3,5,6 | True |
| **Largest\_Intersecting\_Pair** | 14,15 |