Polygons=[(4,8),(4,3),(4,3),(10,3),(13,3),(13,8),(13,8);(-1,5),(-4,11),(2,18),(2

,18),(2,18),(8,6);(17,14),(9,9),(14,5),(17,14);(-13,-1),(-6,3),(2,-11),(-5,-15),

(-9,-8),(-9,-8);(7,-14),(4,-17),(4,-17),(-1,-14),(-2,-9),(3,-6),(10,-7),(6,-11);

(-7,12),(-6.5,13),(3,4),(3,4),(-8,10);(19,-8),(19,-8),(16,-3),(10,-4),(7,-8),(10

,-11),(13,-8),(14,-12),(19,-8),(19,-8);(7,-4),(5,-5),(3,-6),(5,-1);(3,-6),(1,-2)

,(-1,-4)]

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| **Number\_Polygons 9** |
| **Total\_Number\_Points 53** |
| **Minimum\_X -13** |
| **Maximum\_X 19** |
| **Minimum\_Y -17** |
| **Maximum\_Y 18** |
| **Enclosing\_Rectangle (-13,-17),(19,-17),(19,18),(-13,18)** |
| **Total\_Redundant\_Points 15** |
| **Quit** |

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| **Polygon\_Points** 1 /4 (4,8),(4,3),(13,3),(13,8)/ (-13,-1),(-6,3),(2,-11),(-5,-15) |
| **Point\_Polygons** (2,1)/(9,9) none/3 |
| **List\_Polygons\_Points More 3 1,2,4,5,7** |
| **List\_Polygons\_Points Less 7 1,2,3,4,6,8,9** |
| **List\_Polygons\_Points Equal 7 5** |
| **List\_Points\_Polygons More 3 none** |
| **List\_Points\_Polygons Less 3 (4,8),(4,3),(13,3),(13,8),(-1,5),(-4,11),(2,18),(8,6),(17,14),(9,9),(14,5),(-13,**  **-1),(-6,3),(2,-11),(-5,-15),(7,-14),(4,-17),(-1,-14),(-2,-9),(10,-7),(6,-11),(-6**  **.5,13),(3,4),(-8,10),(19,-8),(16,-3),(10,-4),(7,-8),(10,-11),(13,-8),(14,-12),(7**  **,-4),(3,-6),(5,-1)** |
| **List\_Points\_Polygons Equal 3 (3,-6)** |
| **Polygon\_Perimeter 5 36.8938** |
| **List\_Triangles 3,6,8,9** |
| **List\_Rectangles 1,4** |
| **List\_Trapezoid 2** |

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| **Inside\_Rectangle** (1,2),(1,5),(6,5),(6,1)/ (-5,19),(11,19),(11,-18),(-5,-18)  None / 2,4,5,6,8,9 |
| **Inside\_Circle** (1,2),5/ (3,0),7 none/8,9 |
| **Polygon\_Area** 8,3,7 /8,28.5,61.5 |
| **Polygons\_Area\_Range** 10,50 1,3,6 |
| **Polygons\_Enclosing\_Point** (3,-6)/(1,2) 5,8,9/none |
| **Is\_Intersecting** 1,3/1,8 TRUE/FALSE |
| **Intersecting\_Group** 3,5,6 /5,8,9 FALSE/TRUE |
| **Largest\_Intersecting\_Pair 4,5** |
| **Largest\_Rectangle\_Inside** n ملغي |
| **Largest\_Circle\_Inside** n ملغي |
| **Is\_Connected** i,j  **not supported** |
| **Is\_Connected\_Group** 1,2,5  **not supported** |
| **Maximum\_Intersecting\_Group not supported** |
| **Maximum\_Connected\_Group not supported** |

Polygons= [(1,1),(2,2),(1,3),(0,2);(0,1),(3,3),(1,6),(-2,4);(2,3),(5,3),(4,8);(5,5),(7,7),(7,7),(6,8),(4,11),(3,10),(2,5),(3,3),(3,3),(5,5);(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)]

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| **Number\_Polygons 16** |
| **Total\_Number\_Points 78** |
| **Minimum\_X -5** |
| **Maximum\_X 7** |
| **Minimum\_Y -12** |
| **Maximum\_Y 13** |
| **Enclosing\_Rectangle (7,-12),(7,13),(-5,13),(-5,-12)** |
| **Total\_Redundant\_Points 13** |
| **Quit** |

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| **Polygon\_Points** 1,13 (1,1),(2,2),(1,3),(0,2)/( -3,-6),(-2,-9),(1,-11),(3,-6) |
| **Point\_Polygons** (2,1) none/2,4 |
| **List\_Polygons\_Points More 4 4,7,3** |
| **List\_Polygons\_Points Less 2,4 none/3,9,12** |
| **List\_Polygons\_Points Equal 5,3 13/3,9,12** |
| **List\_Points\_Polygons More 5,1 none/(3,3),(-2,-9)** |
| **List\_Points\_Polygons Less 3 (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),(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),(-5,3),(-3,3),(-1,3),(-3,7),(-5,6),(-2,-1),(-4,-4),(-4,-7),(-2,-9),(-2,-4),(-2,-7),(-4,-10),(-1,-12),(-1,-6),(-3,-6),(1,-11),(3,-6),(0,-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** 4,2 none/(3,3),(-2,-9) |
| **Polygon\_Perimeter** 1,7,4 5.6568,18.106,19.4259 |
| **List\_Triangles 3,9,12** |
| **List\_Rectangles 1,2** |
| **List\_Trapezoid 6,8,10,11** |

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| **Inside\_Rectangle (-5,8),(6,8),(6,2),(-5,2) 3** |
| **Inside\_Circle** (1,2),5 1,2,16 |
| **Polygon\_Area** 4,2,13 20.5,13,28.5 |
| **Polygons\_Area\_Range 20,60 4,7,8,14,15** |
| **Polygons\_Enclosing\_Point** (1,2) 1,2,5 |
| **Is\_Intersecting** 2,3/5,7 TRUE/FALSE |
| **Intersecting\_Group** 3,5,6,4/7,8,9 TRUE/TRUE |
| **Largest\_Intersecting\_Pair 14,15** |
| **Largest\_Rectangle\_Inside** n ملغي |
| **Largest\_Circle\_Inside** n ملغي |
| **Is\_Connected** i,j **not supported** |
| **Is\_Connected\_Group** 1,2,5 **not supported** |
| **Maximum\_Intersecting\_Group not supported** |
| **Maximum\_Connected\_Group not supported** |