```
Heap Sort Test
Shapes before sorting
Circle with radius 7.0 Rectangle with length 5.0 and width 12.0 Rectangle with length 5.0 and width 10.0 Rectangle with length 6.0 and width 11.0
Shapes after sorting
Rectangle with length 5.0 and width 10.0 Rectangle with length 5.0 and width 12.0 Rectangle with length 6.0 and width 11.0 Circle with radius 7.0
Area Values of the Shape Array after sorting:
50.0
60.0
66.0
153.93804002589985
This array is properly sorted

Merge Sort Test
Shapes before sorting
Circle with radius 7.0 Rectangle with length 5.0 and width 12.0 Rectangle with length 5.0 and width 10.0 Rectangle with length 6.0 and width 11.0
Shapes after sorting
Rectangle with length 5.0 and width 10.0 Rectangle with length 5.0 and width 12.0 Rectangle with length 6.0 and width 11.0 Circle with radius 7.0
Area Values of the Shape Array after sorting:
50.0
60.0
66.0
153.93804002589985
This array is properly sorted

Quick Sort Test
Shapes before sorting
Circle with radius 7.0 Rectangle with length 5.0 and width 12.0 Rectangle with length 5.0 and width 10.0 Rectangle with length 6.0 and width 11.0
Shapes after sorting
Rectangle with length 5.0 and width 10.0 Rectangle with length 5.0 and width 12.0 Rectangle with length 6.0 and width 11.0 Circle with radius 7.0
Area Values of the Shape Array after sorting:
50.0
60.0
66.0
153.93804002589985
This array is properly sorted

Shell Sort Test
Shapes before sorting|
Circle with radius 7.0 Rectangle with length 5.0 and width 12.0 Rectangle with length 5.0 and width 10.0 Rectangle with length 6.0 and width 11.0
Shapes after sorting
Rectangle with length 5.0 and width 10.0 Rectangle with length 5.0 and width 12.0 Rectangle with length 6.0 and width 11.0 Circle with radius 7.0
Area Values of the Shape Array after sorting:
50.0
60.0
66.0
153.93804002589985
This array is properly sorted
```