Explain Heap sort with example.

Q-Explain Heap sort with example.

Heap sort is a comparison-based sorting technique based on Binary Heap data structure. It is similar to selection sort where we first find the minimum element and place the minimum element at the beginning. We repeat the same process for the remaining elements.

Example of "heapify":

30(0)
╲ ╱
70(1) 50(2)

Child (70(1)) is greater than the parent (30(0))

Swap Child (70(1)) with the parent (30(0))

70(0)
╲   ╱
30(1) 50(2)