1. Does the order in which data is inserted in a heap affect the arrangement of the heap? Use the Heap Workshop applet to find out.

Answer: yes, the order of data inserted effect on heap arrangement.

1. Use the Workshop Applet’s Ins button to insert 10 items in ascending order into an empty heap. If you remove these items with the Rem button, will they come off in the reverse order?

Answer: no, they don’t come off in the reverse order.

1. Insert some items with equal keys. Then remove them. Can you tell from this whether heapsort is stable? The color of the nodes is the secondary data item.

A picture containing photo

Description generated with high confidence

Answer: After insert and remove with equal keys we can say that heapsort not stable because depending on the insert keys they are removed or rearranged depending on heapsort.