

INSERT Items are stored in ascending (non-descending) order

9 **Hal**
itemCount item

0	1	2	3	4	5	6	7	8	9	10
Ava	Ben	Dan	Eli	Jan	May	Pat	Ray	Sam			

Step 1: Find the index of the rightmost element that is not bigger

9 **Hal** **3**
itemCount item index

0	1	2	3	4	5	6	7	8	9	10
Ava	Ben	Dan	Eli	Jan	May	Pat	Ray	Sam			

Step 2: Shift all items at higher indexes one position to the right

9 **Hal** **3** **4.....8**
itemCount item index shift range

0	1	2	3	4	5	6	7	8	9	10
Ava	Ben	Dan	Eli	Jan	Jan	May	Pat	Ray	Sam		

Step 3: Store the new item at the next higher index, increment itemCount

10 **Hal** **3** **4**
itemCount item index position

0	1	2	3	4	5	6	7	8	9	10
Ava	Ben	Dan	Eli	Hal	Jan	May	Pat	Ray	Sam		