**INSERTİON SORT**

**1)** **[22,27,16,2,18,6]**

**[2,27,16,22,18,6]**

**[2,6,16,22,18,27]**

**[2,6,16,18,22,27]**

**2)** **Big-O gösterimini yazınız.**

**O(n^2)**

**3) 18 sayısı average case kapsamına girer.**

**[7,3,5,8,2,9,4,15,6] dizisinin Insertion Sort'a göre ilk 4 adımını yazınız.**

**[2,3,5,8,7,9,4,15,6]**

**[2,3,4,8,7,9,5,15,6]**

**[2,3,4,5,7,9,8,15,6]**

**[2,3,4,5,6,9,8,15,7]**



**MERGE SORT**



**1) [16,21,11,8,12,22] -> Merge Sort**



**[16,21,11] [8,12,22]**

**[16] [21,11] [8] [12,22]**

**[16] [21] [11] [8] [12] [22]**

**[16] [11,21] [8] [12,22]**

**[ 11,16,21 ] [8,12,22]**

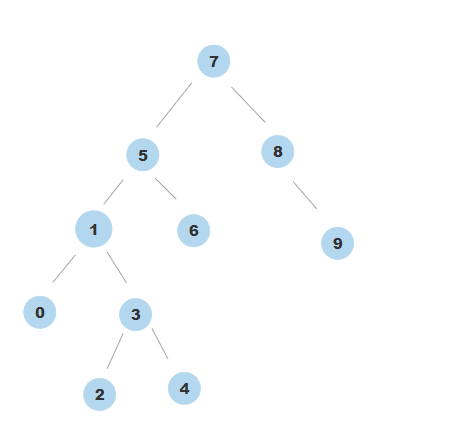
**[8,11,12,16,21,22]**

**2) O(nlogn)**



**BİNARY SEARCH TREE**

**1)[7, 5, 1, 8, 3, 6, 0, 9, 4, 2] dizisinin Binary-Search-Tree aşamalarını yazınız.**

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