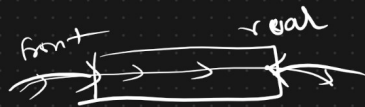


Collection:- \rightarrow Deque(I) \rightarrow Queue
ArrayDeque \rightarrow Double ended Queue

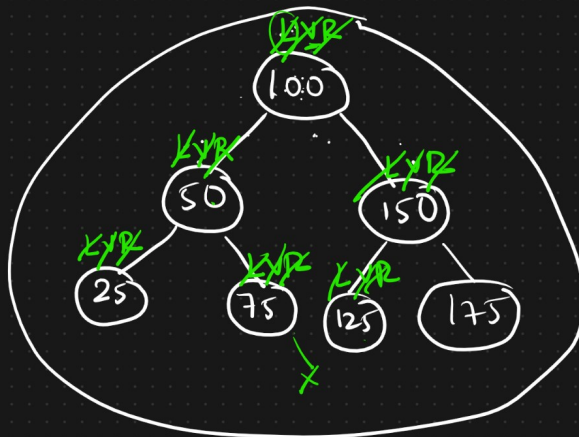
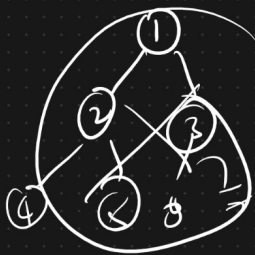


\Rightarrow PriorityQueue \rightarrow min-Heap DS

\Rightarrow Treeset \rightarrow set(I)
 \uparrow
 \rightarrow sortedSet(I)

\hookrightarrow Binarysearch Tree :-

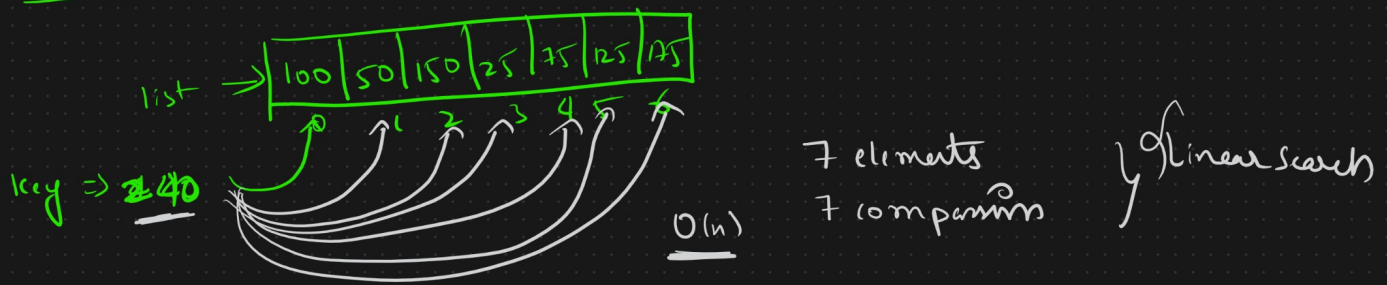
100 50 150 25 75 125 175



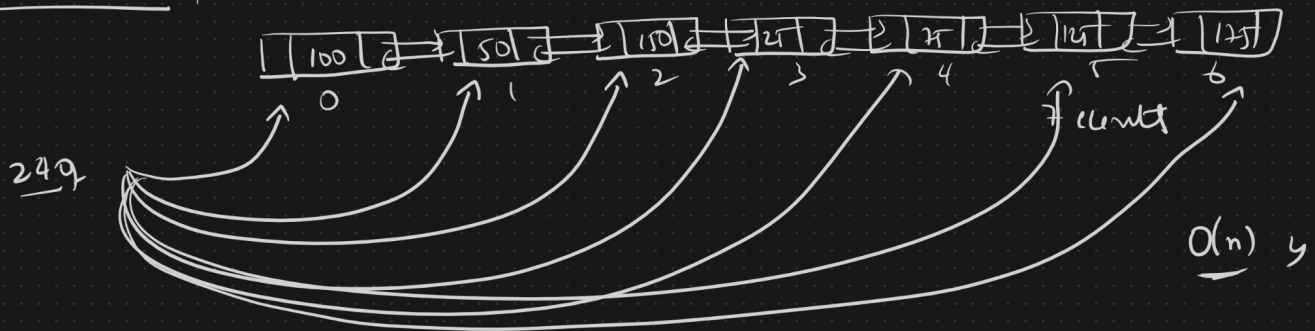
in-order
(LVR)
LDR

25 50 75 100 125 150 175 \rightarrow sorted

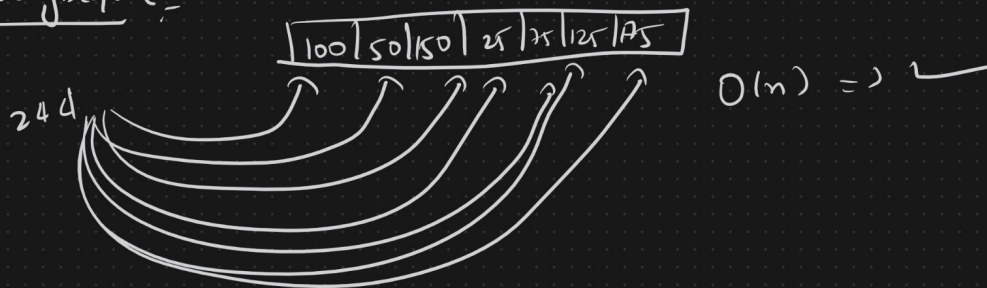
ArrayList :- Dynamic Array DS



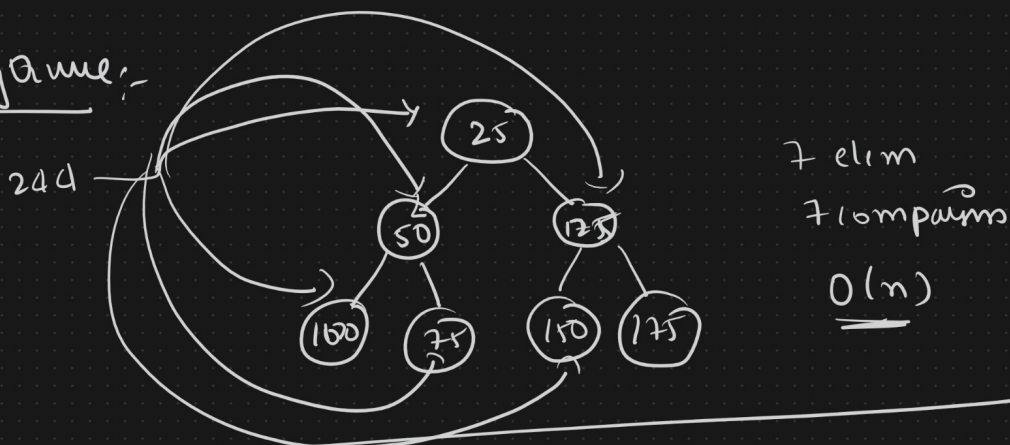
LinkedList :-



ArrayDeque :-



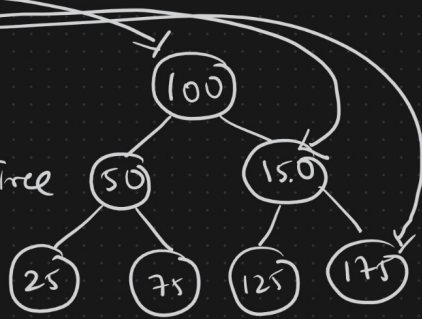
PriorityQueue :-



TreeSet :-

key = 244

Balanced Binary Search Tree



7 elements
3 comparisons

~~$O(\log n)$~~

TreeSet \rightarrow

10 20 30 40 50 60 70



7 elem

7 comparisons

$O(n)$

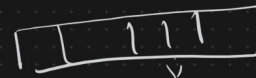
skewed tree

\Rightarrow HashSet \Rightarrow Hashing algo

$O(1)$

HashSet \rightarrow Hashing

$O(1)$



240 Hash function

Hash table

