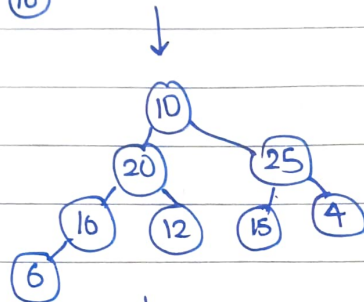
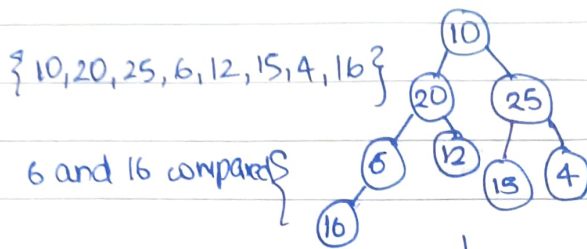
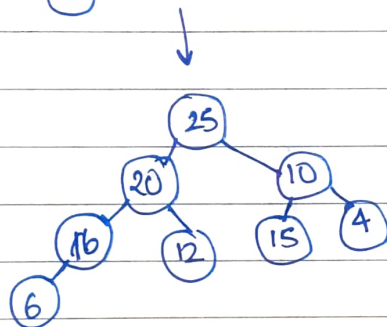


## Heapify



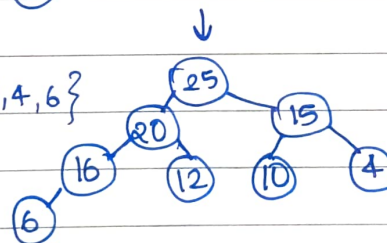
} 25 and 15 compared - no swap  
10 and 25 compared



} 10 and 15 compared

Result

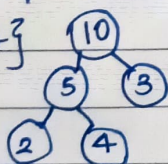
{ 25, 20, 15, 16, 12, 10, 4, 6 }



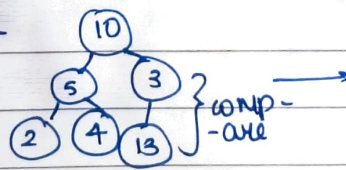
} comparisons of all nodes  
made to ensure max-heap  
maintained

## Heap Insertion - Insert 13

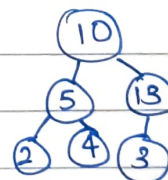
{ 10, 5, 3, 2, 4 }



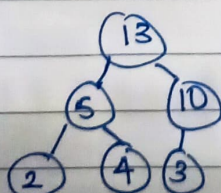
Insert 13 at  
end



comp-  
are



} compare



Final output

{ 13, 5, 10, 2, 4, 3 }

compare  
other elements

