

DATA STRUCTURES II

heapify demo

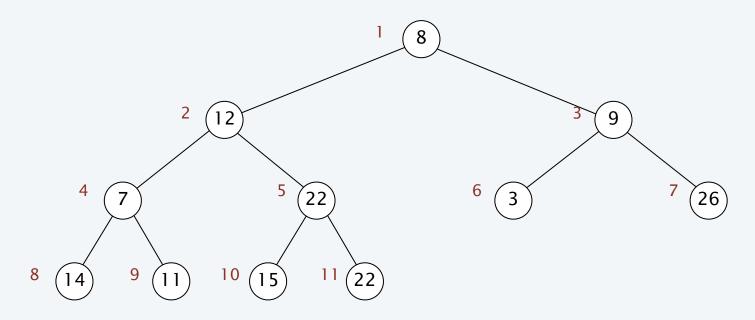
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http://www.cs.princeton.edu/~wayne/kleinberg-tardos

Heapify. For each element in reverse-array order, sink it down.

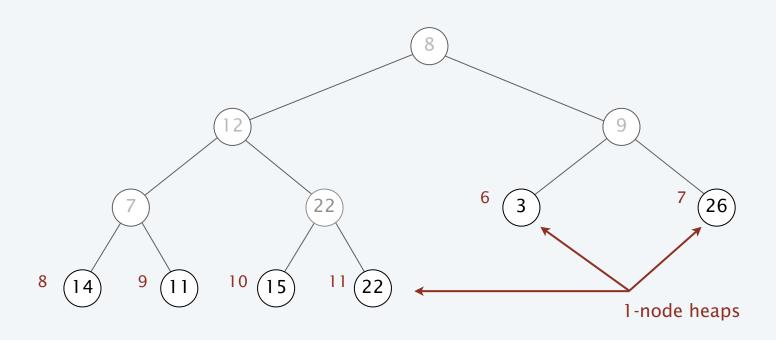
we assume array entries are indexed 1 to N

array in arbitrary order

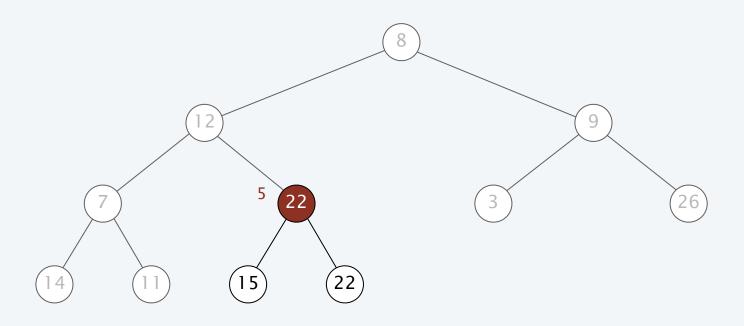


8	12	9	7	22	3	26	14	11	15	22
1	2	3	4	5	6	7	8	9	10	11

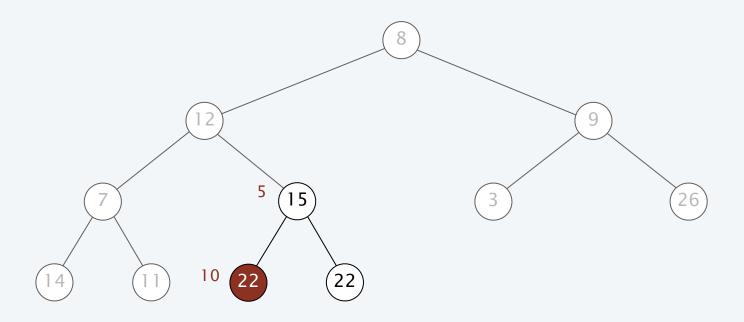
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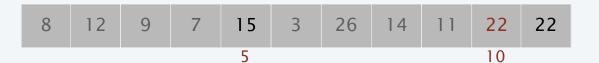


Heapify. For each element in reverse-array order, sink it down.

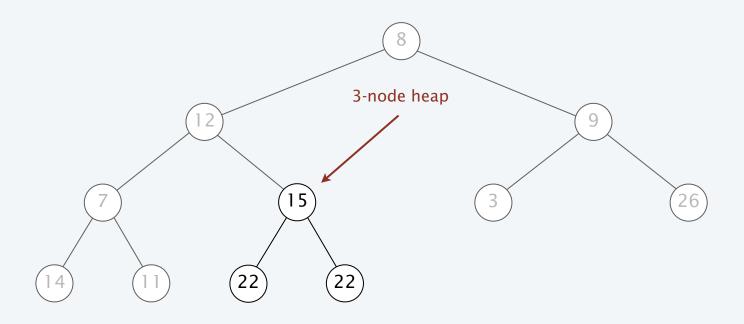


Heapify. For each element in reverse-array order, sink it down.

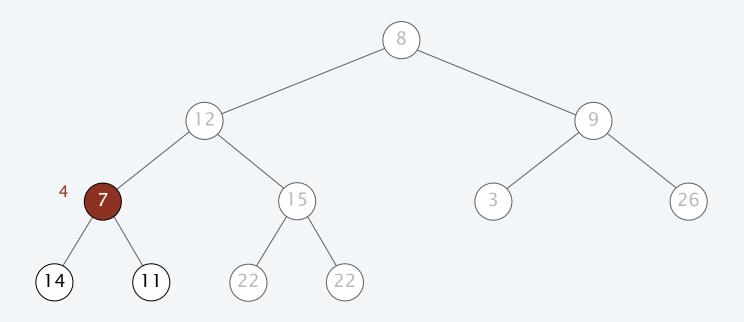




Heapify. For each element in reverse-array order, sink it down.

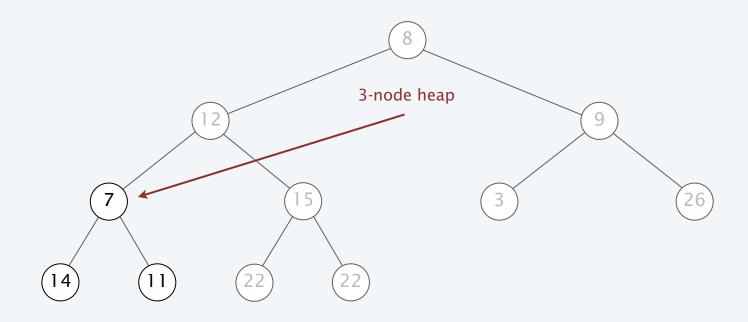


Heapify. For each element in reverse-array order, sink it down.



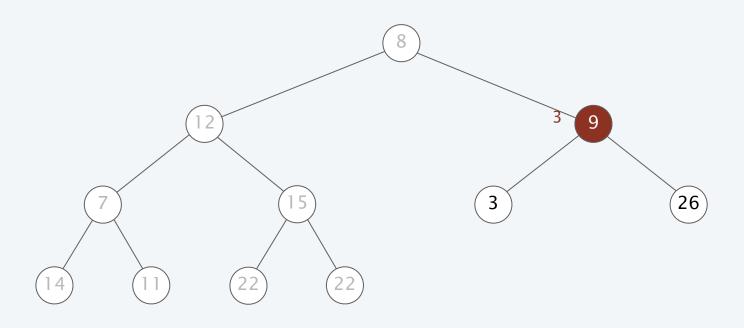
Heapify. For each element in reverse-array order, sink it down.

sink 4

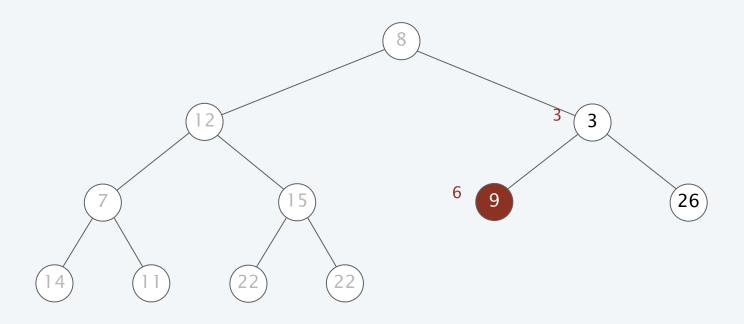


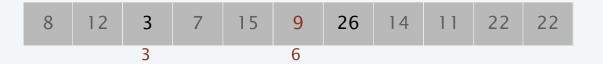
8 12 9 **7** 15 3 26 **14 11** 22 22

Heapify. For each element in reverse-array order, sink it down.

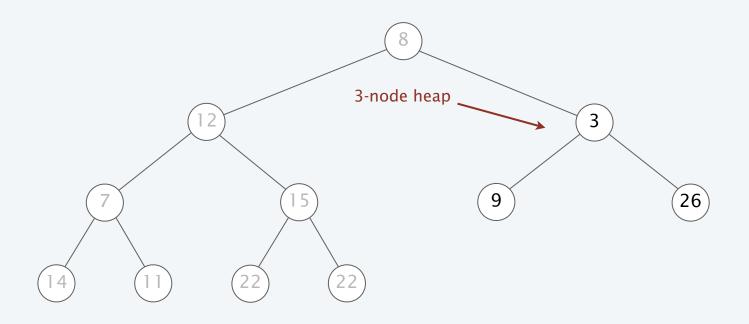


Heapify. For each element in reverse-array order, sink it down.



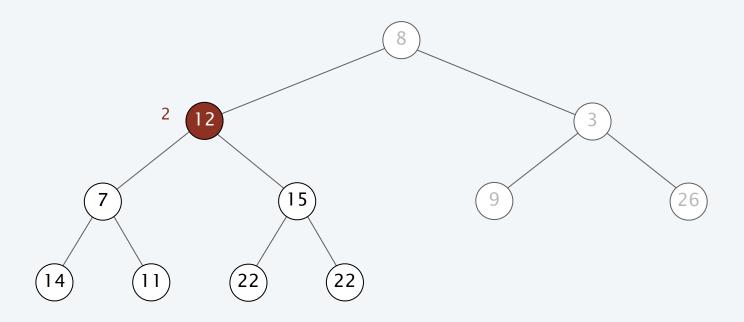


Heapify. For each element in reverse-array order, sink it down.



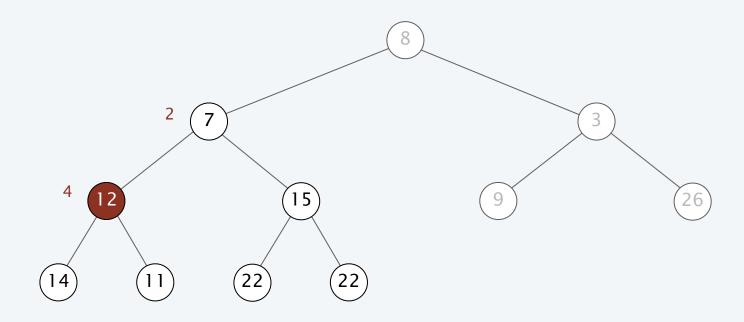
Heapify. For each element in reverse-array order, sink it down.

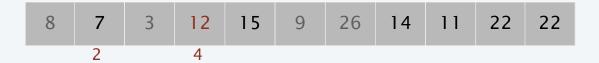
sink 2



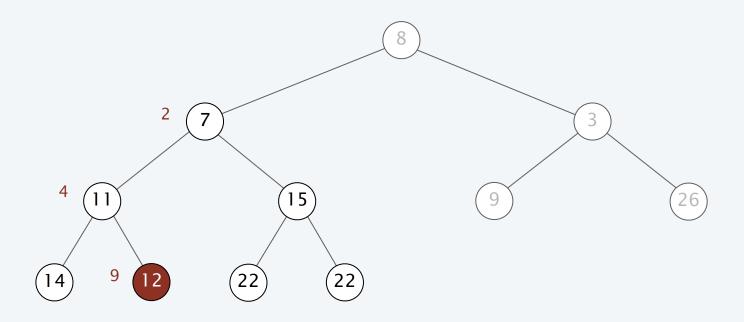
8 12 3 7 15 9 26 14 11 22 22

Heapify. For each element in reverse-array order, sink it down.





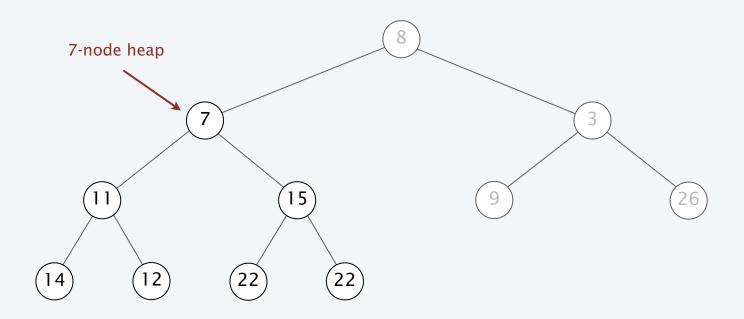
Heapify. For each element in reverse-array order, sink it down.





Heapify. For each element in reverse-array order, sink it down.

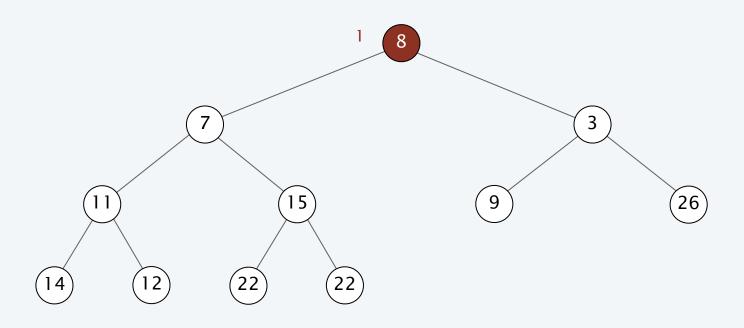
sink 2



8 7 3 11 15 9 26 14 12 22 22

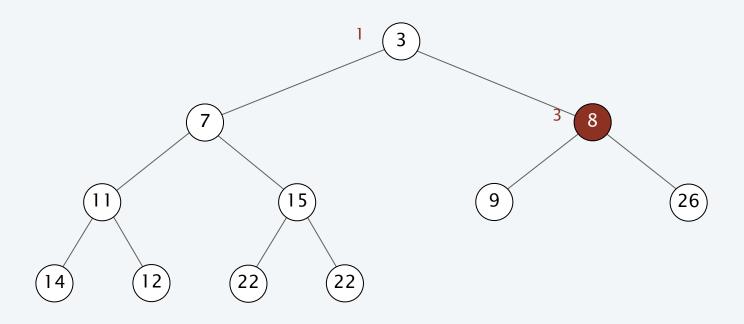
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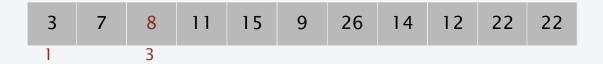
sink 1



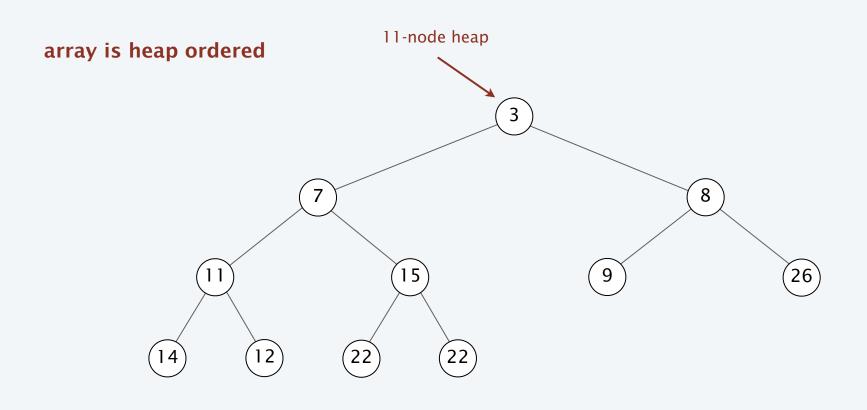
 8
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 11
 15
 9
 26
 14
 12
 22
 22

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3 7 8 11 15 9 26 14 12 22 22