



DATA STRUCTURES II

▸ heapify demo

Copyright © 2013 Kevin Wayne
<http://www.cs.princeton.edu/~wayne/kleinberg-tardos>

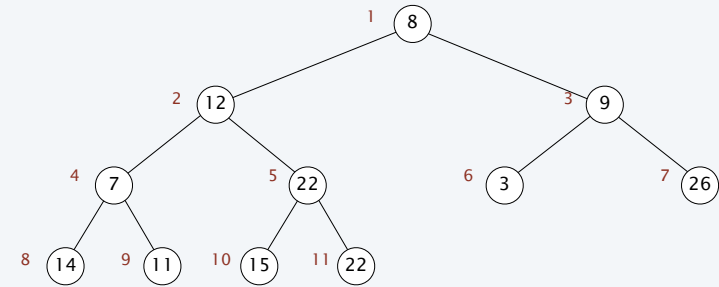
Last updated on Sep 8, 2013 7:13 AM

Heapify demo

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

we assume array entries are indexed 1 to N

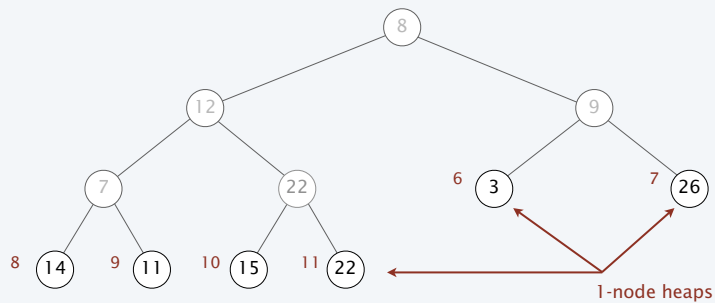
array in arbitrary order



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

Heapify demo

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

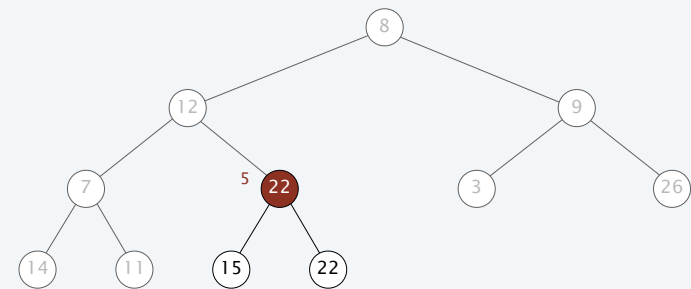


8	12	9	7	22	3	26	14	11	15	22
					6	7	8	9	10	11

Heapify demo

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

sink 5

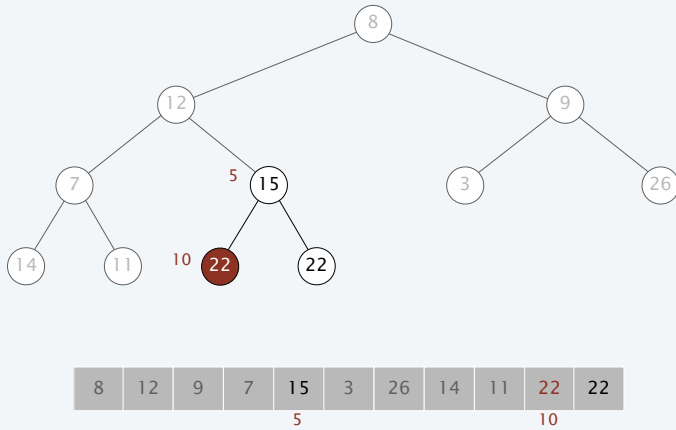


8	12	9	7	22	3	26	14	11	15	22
				5						

Heapify demo

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

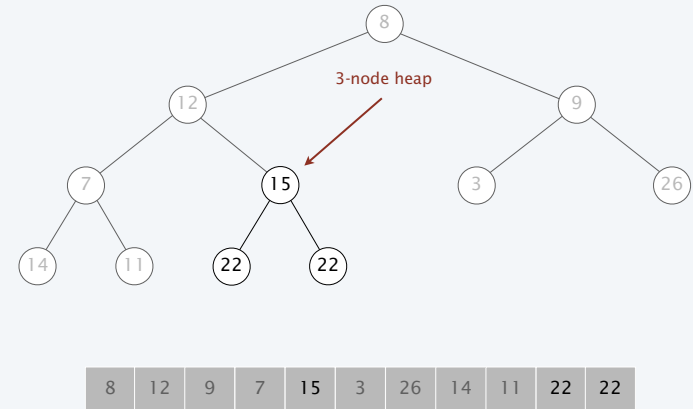
sink 5



Heapify demo

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

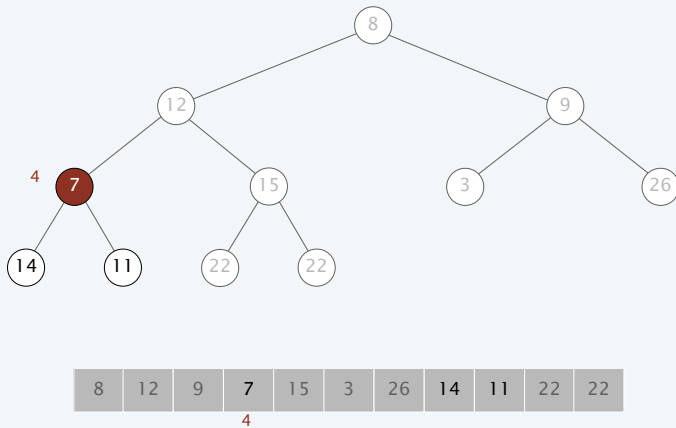
sink 5



Heapify demo

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

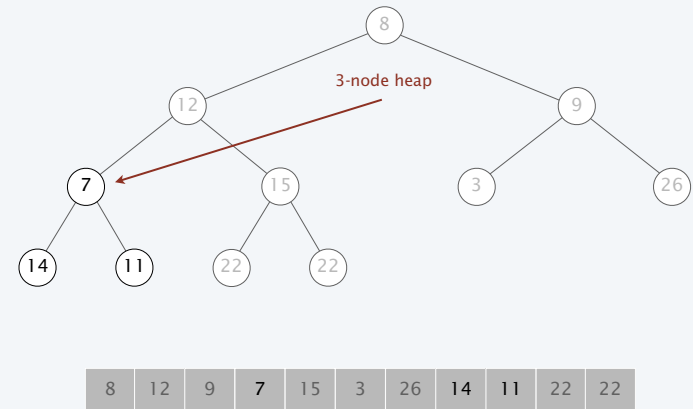
sink 4



Heapify demo

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

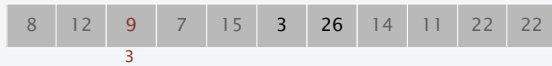
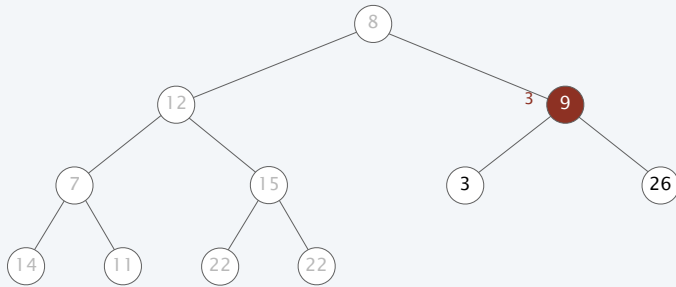
sink 4



Heapify demo

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

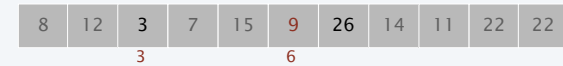
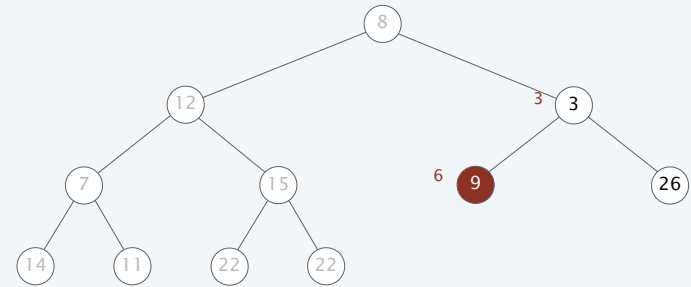
sink 3



Heapify demo

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

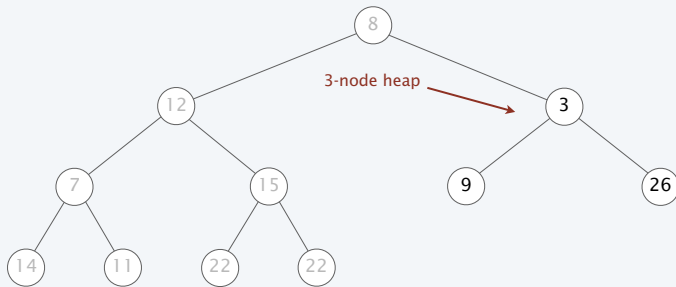
sink 3



Heapify demo

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

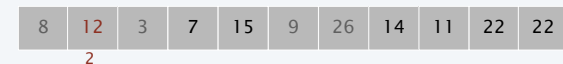
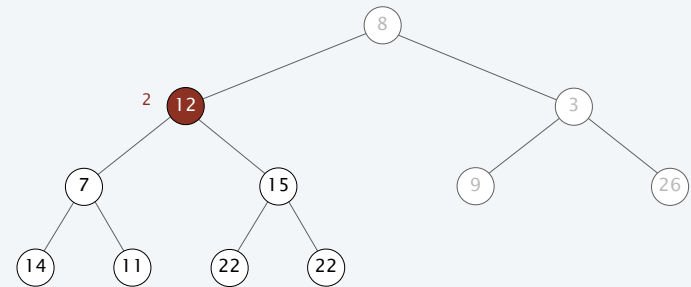
sink 3



Heapify demo

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

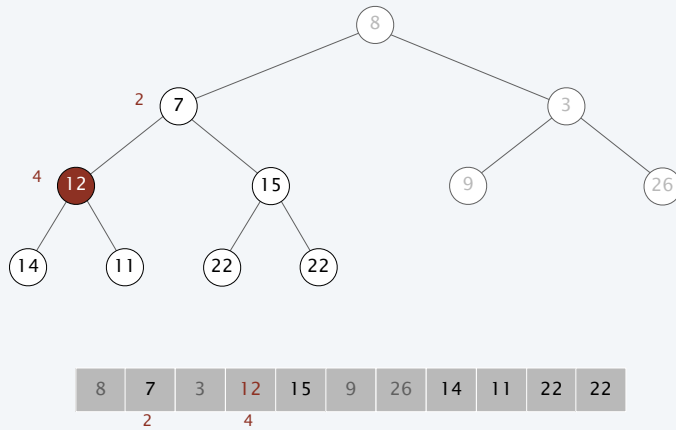
sink 2



Heapify demo

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

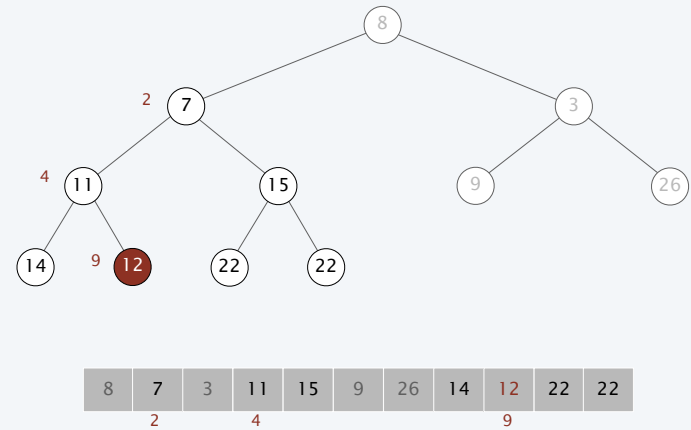
sink 2



Heapify demo

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

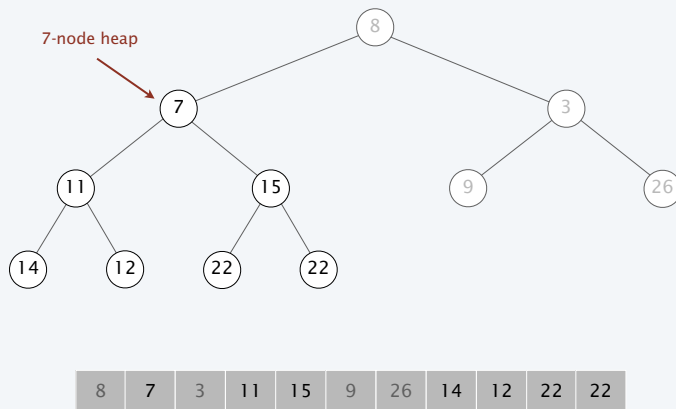
sink 2



Heapify demo

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

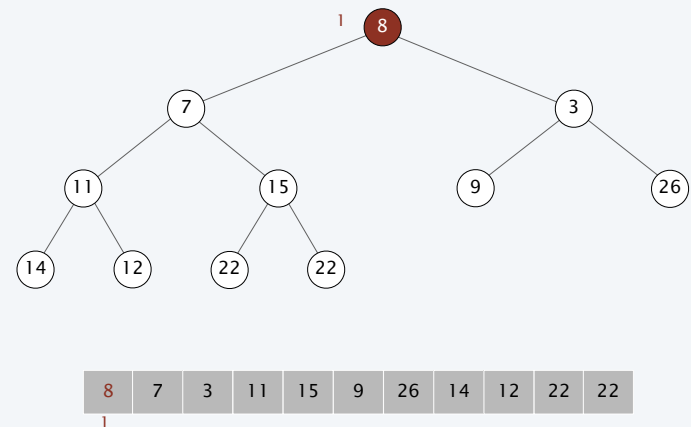
sink 2



Heapify demo

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

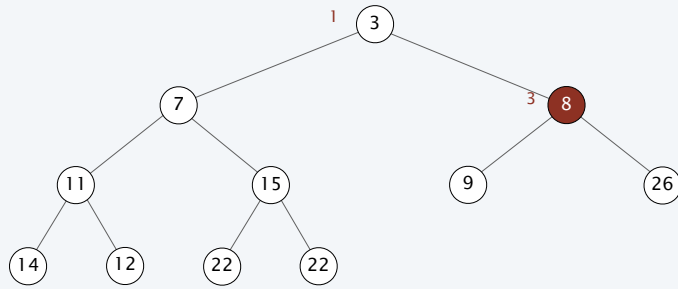
sink 1



Heapify demo

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

sink 1

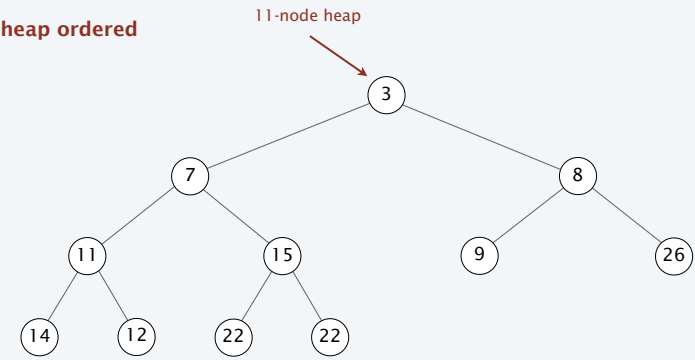


3	7	8	11	15	9	26	14	12	22	22
1		3								

Heapify demo

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

array is heap ordered



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