



## SECTION 2.4


# HEAPIFY DEMO

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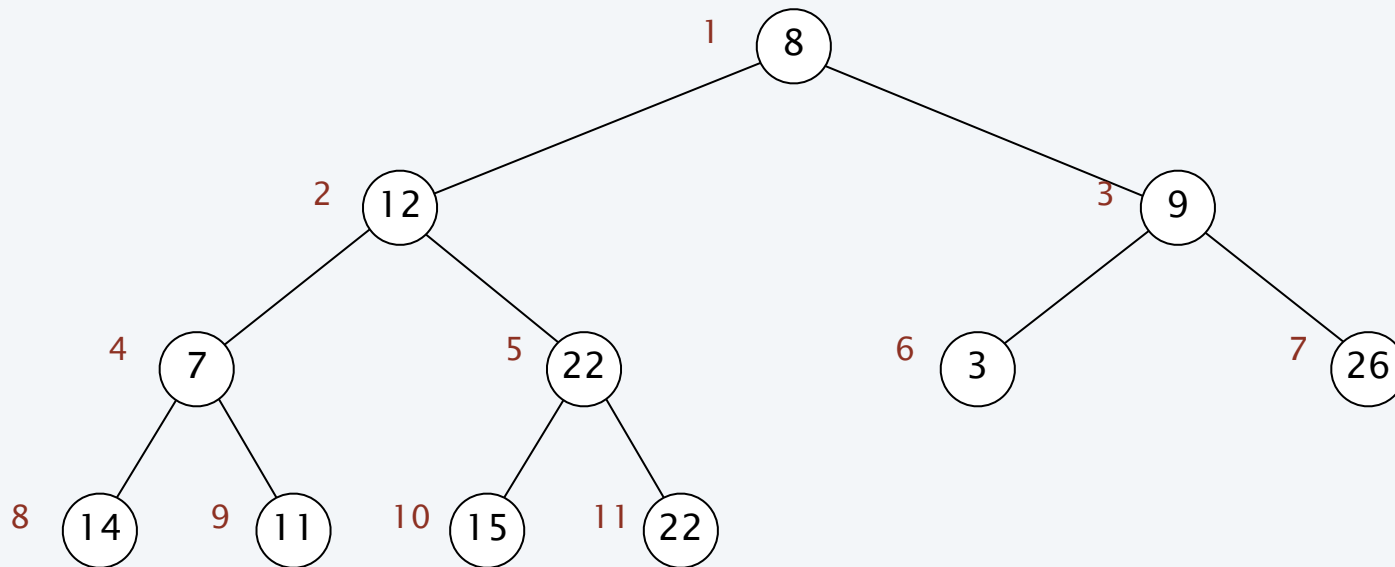
# Heapify demo

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

 we assume array entries are indexed 1 to N

array in arbitrary order

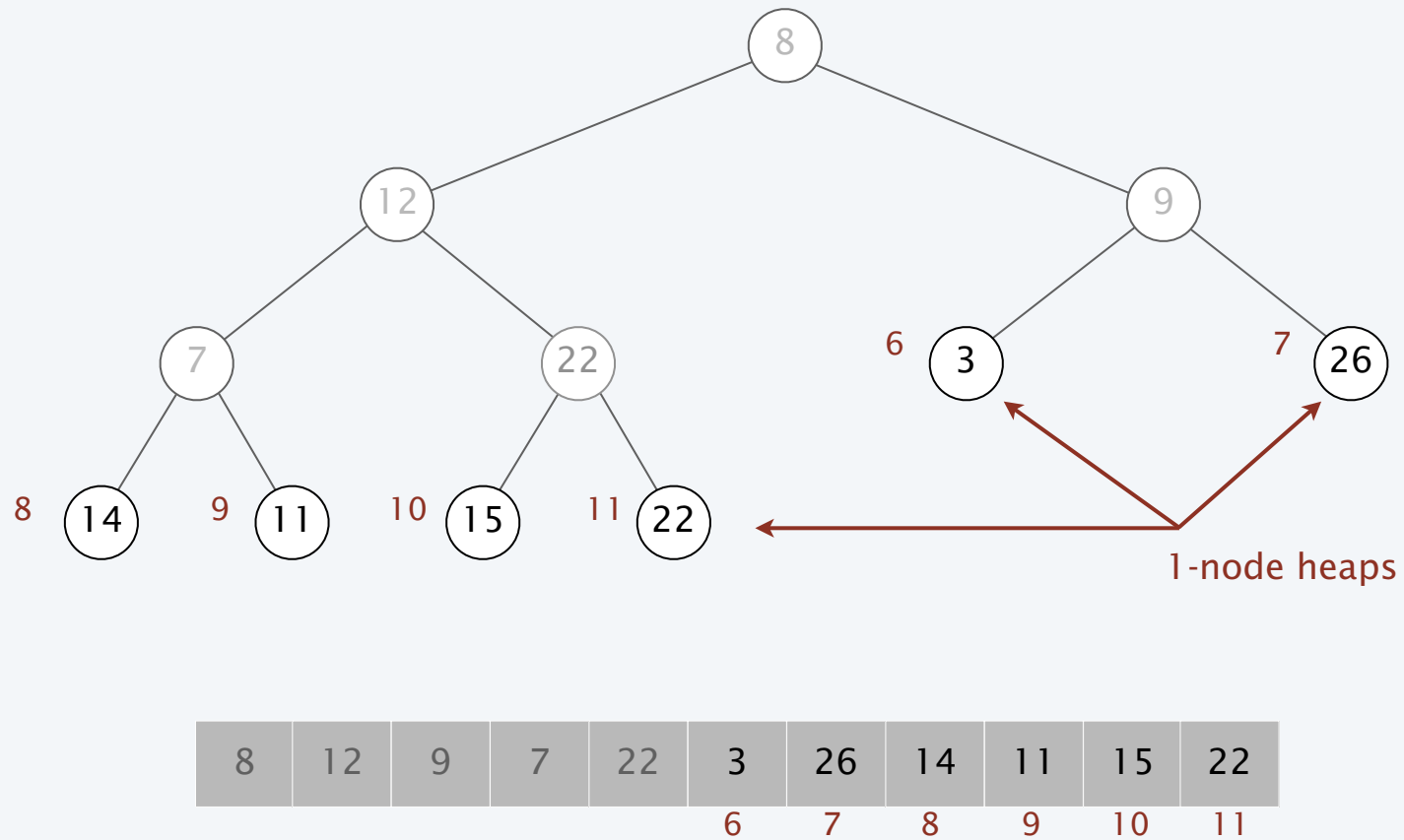


8	12	9	7	22	3	26	14	11	15	22
1	2	3	4	5	6	7	8	9	10	11

# Heapify demo

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

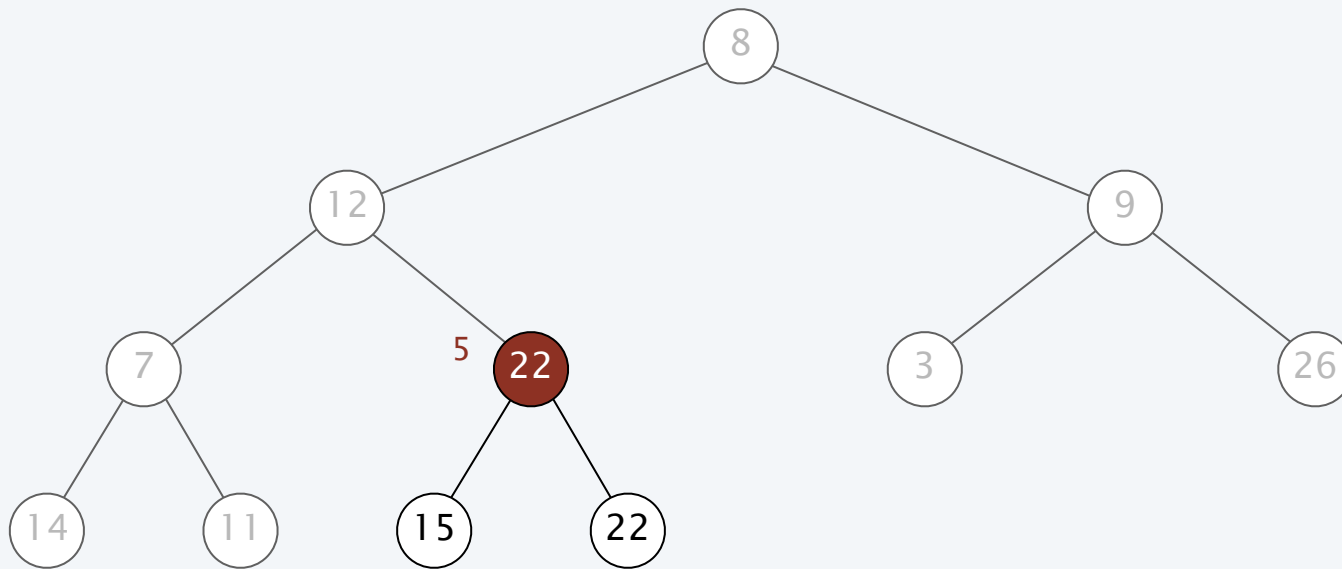


# Heapify demo

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

**sink 5**



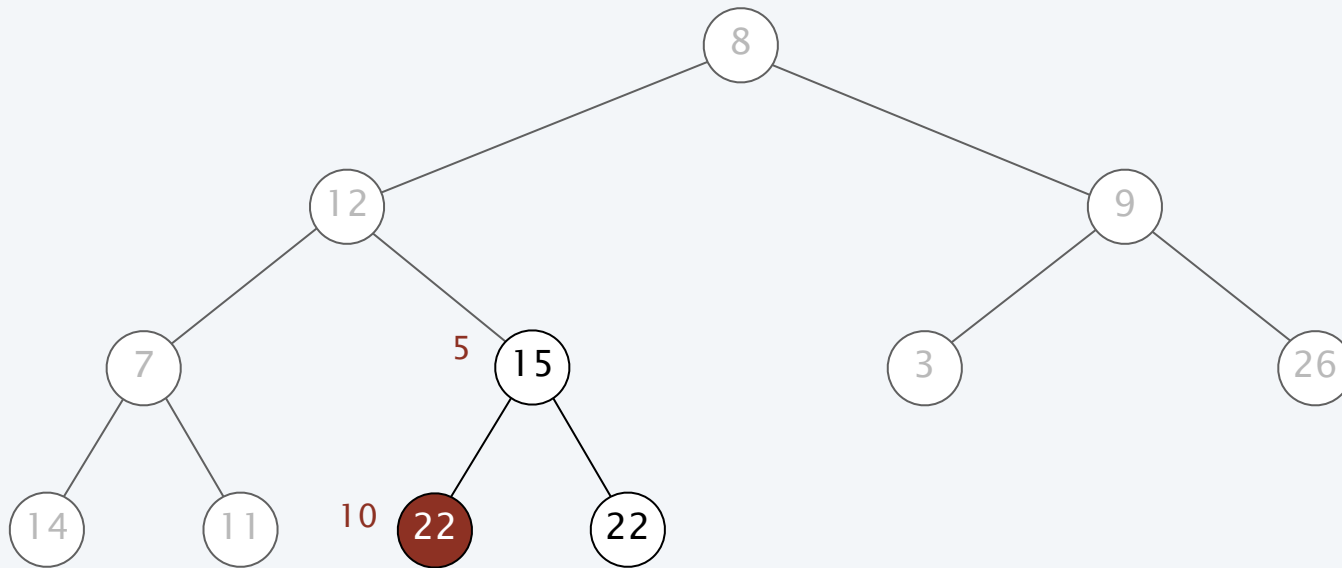
5

# Heapify demo

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

**sink 5**

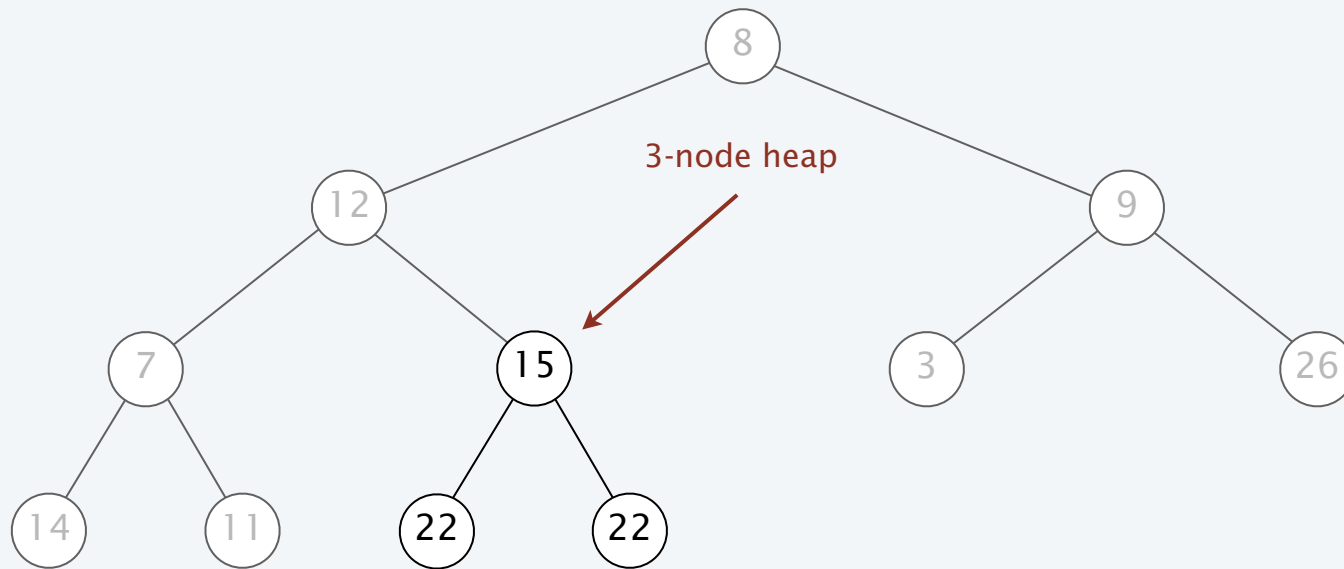


# Heapify demo

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

sink 5



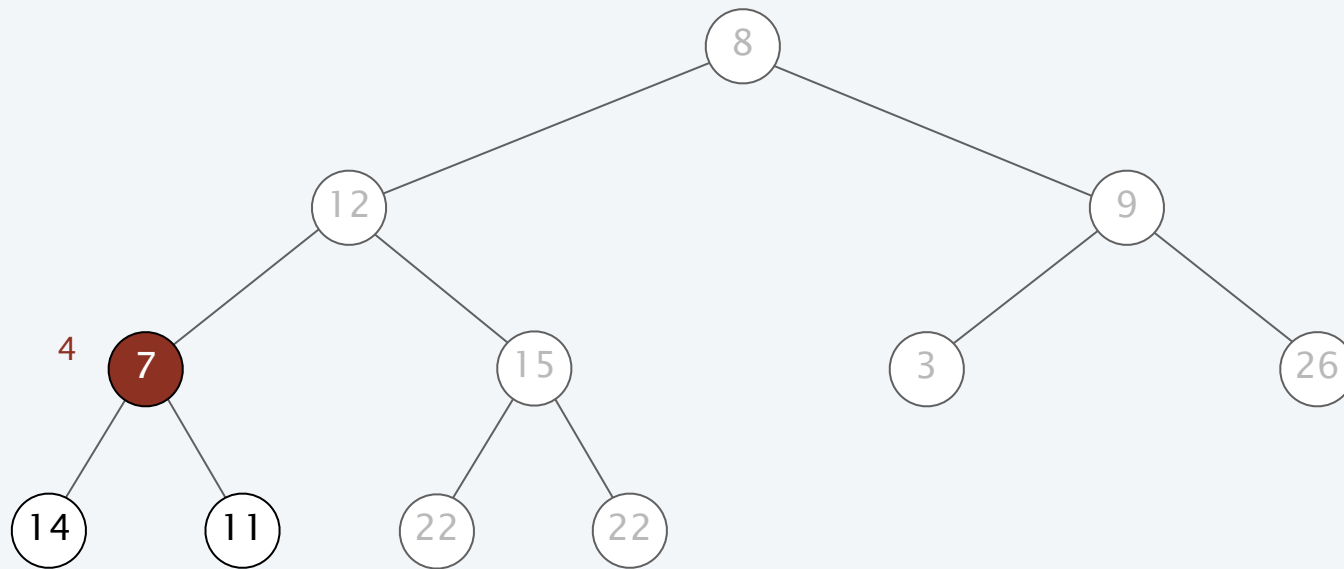
8	12	9	7	15	3	26	14	11	22	22
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# Heapify demo

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

sink 4



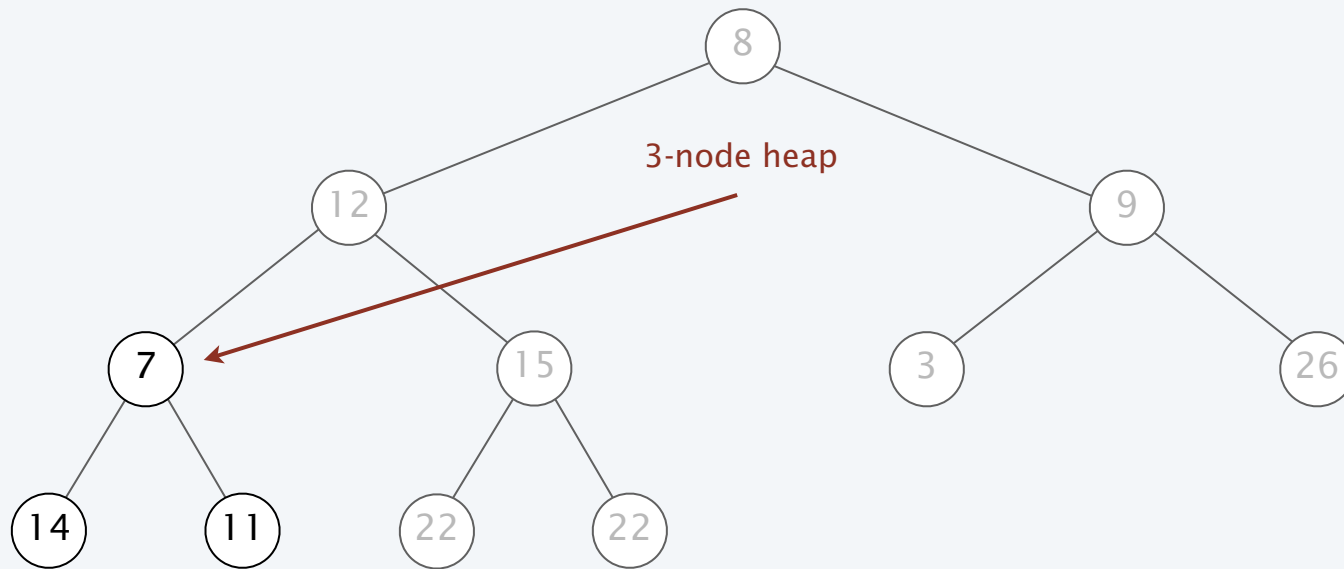
4

# Heapify demo

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

**sink 4**



8	12	9	7	15	3	26	14	11	22	22
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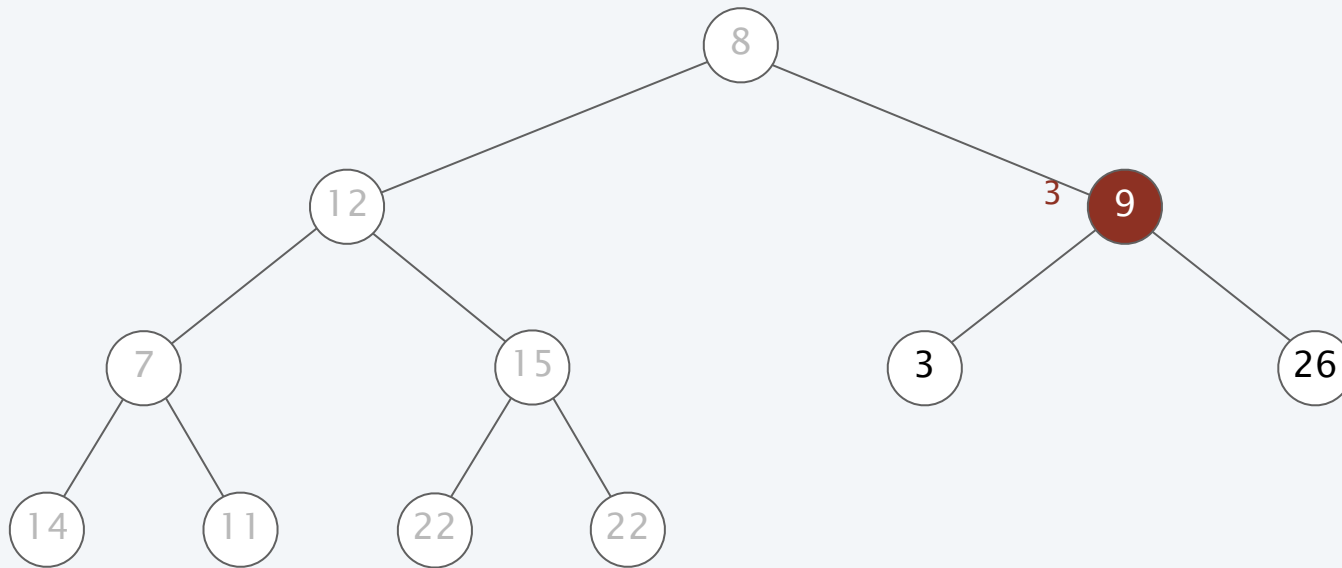


# Heapify demo

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

sink 3



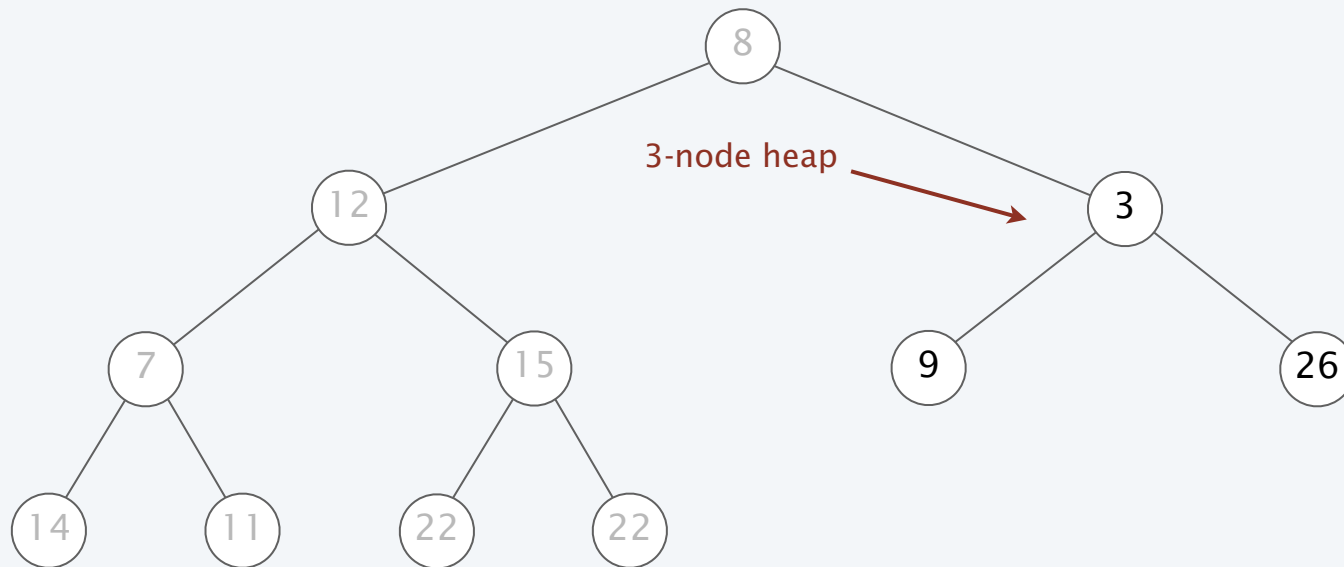


# Heapify demo

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

**sink 3**



8	12	3	7	15	26	26	14	11	22	22
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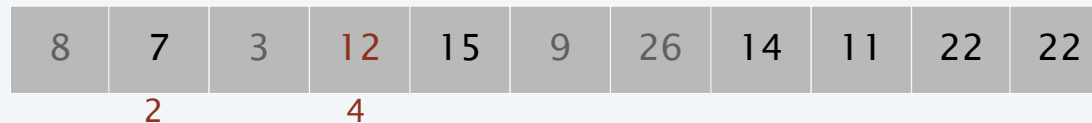
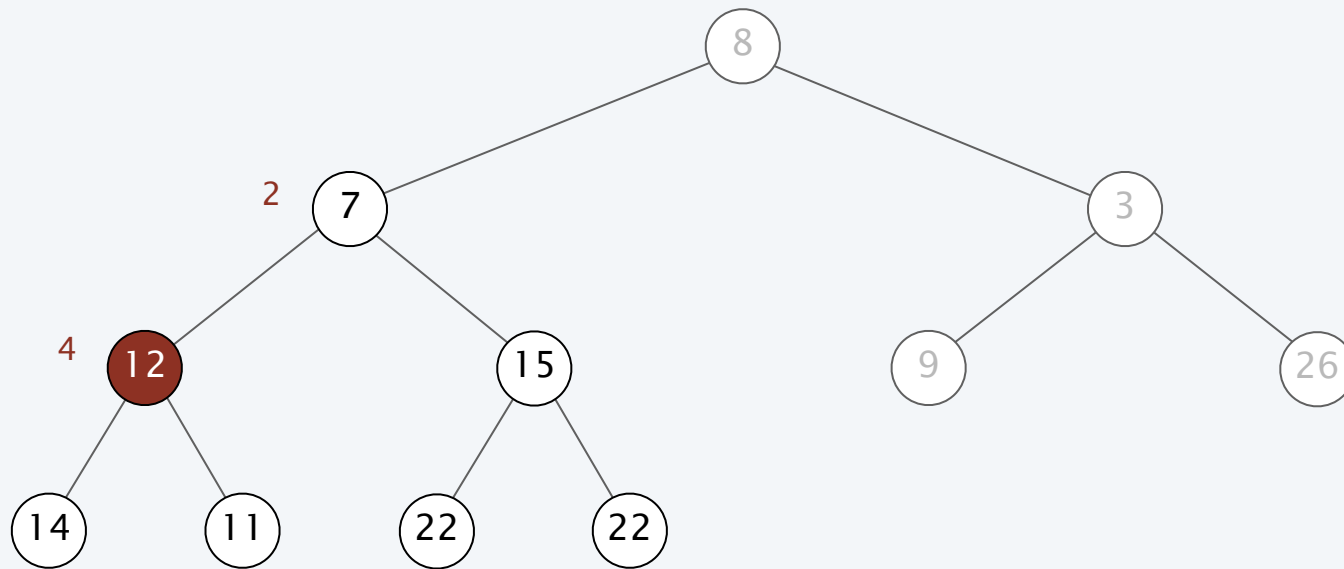


# Heapify demo

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

sink 2

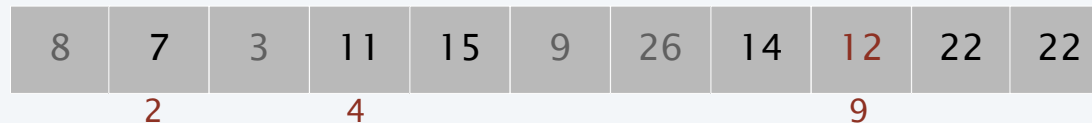
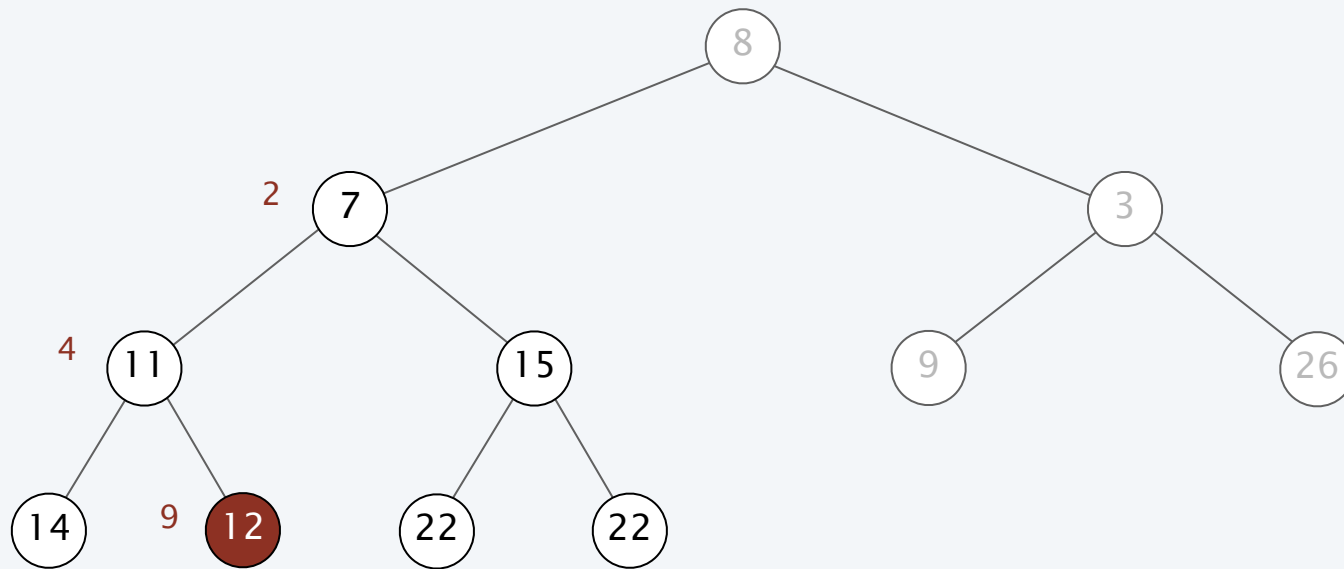


# Heapify demo

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

sink 2

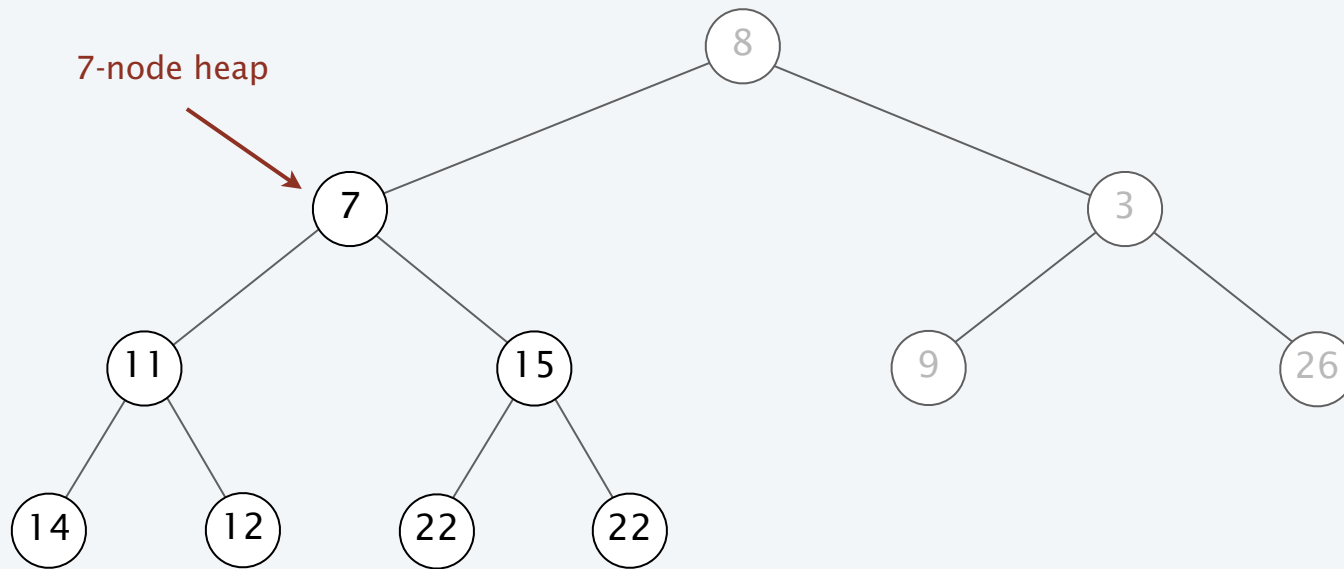


# Heapify demo

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

**sink 2**



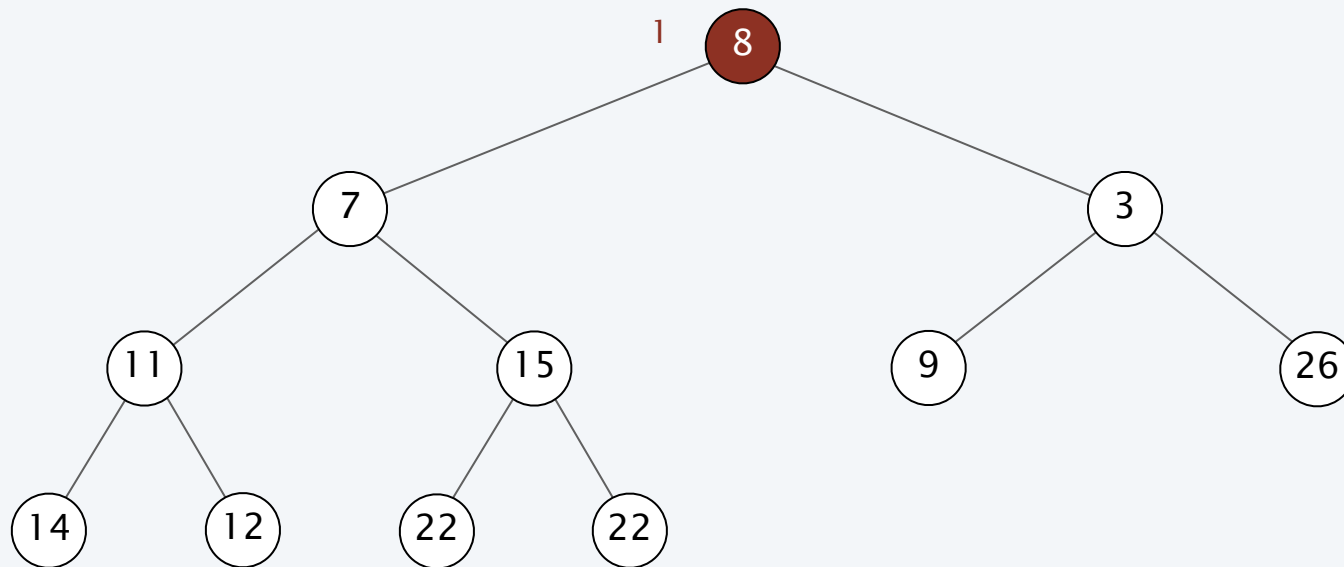
8	7	3	11	15	9	26	14	12	22	22
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# Heapify demo

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

**sink 1**





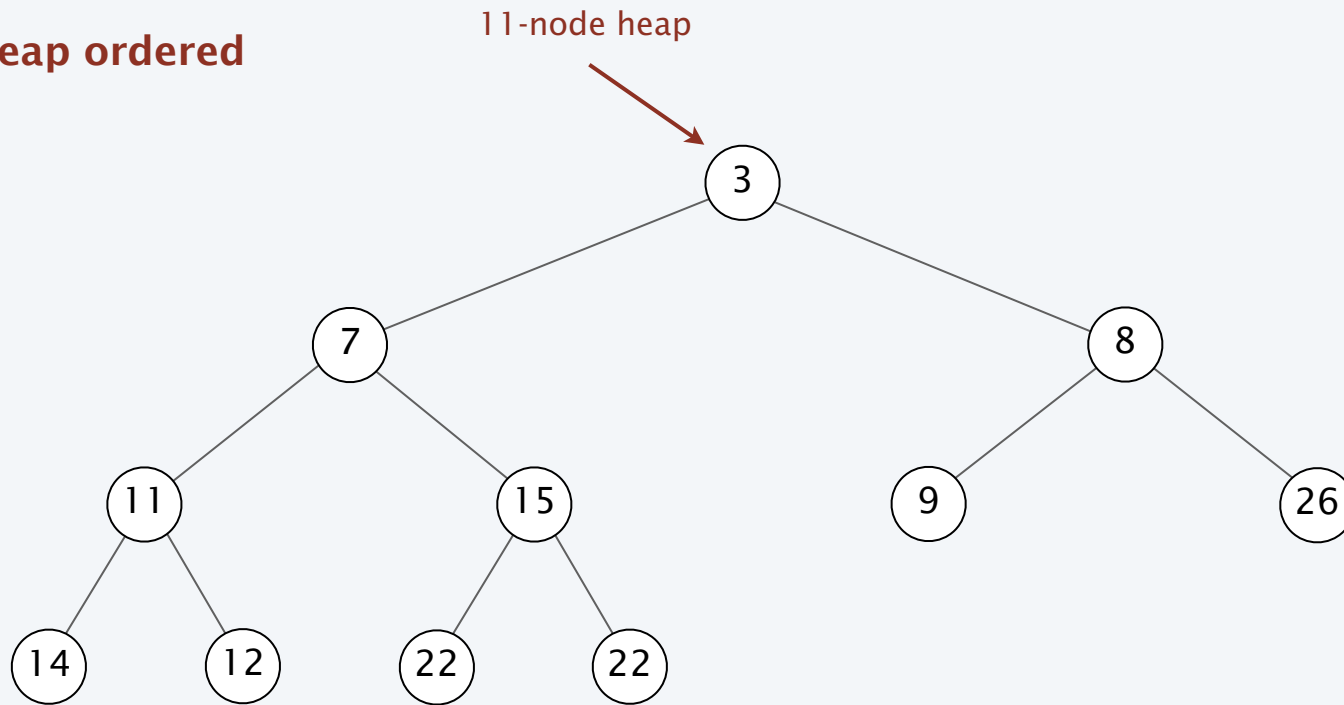


# Heapify demo

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**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
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