HEAPIFY DEMO

SECTION 2.4
Heapify. For each element in reverse-array order, sink it down.

We assume array entries are indexed 1 to N
Heapify demo

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

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

sink 5

![Heapify diagram with numbers and tree structure]
**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

3-node heap
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**

```
8 12 9 7 15 3 26 14 11 22 22
```
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 diagram with sink 3 highlighted]
Heapify demo

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

sink 3

![Heapify diagram](image)
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**
Heapify demo

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

array is heap ordered

11-node heap