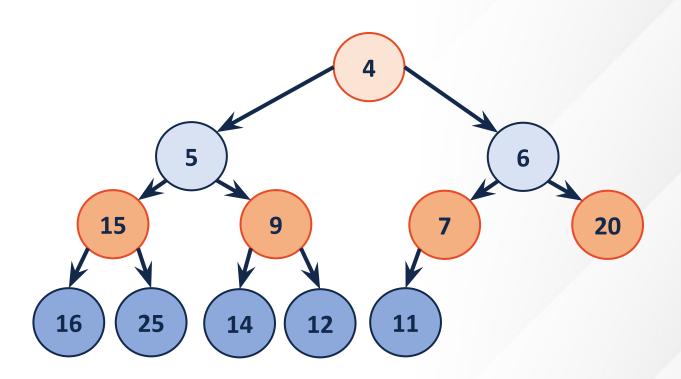


Heap

Learning Objectives

- Understand what a heap is
- 2. Compute the child and parent for every element in a heap for both 0 and 1 index

Heap Example

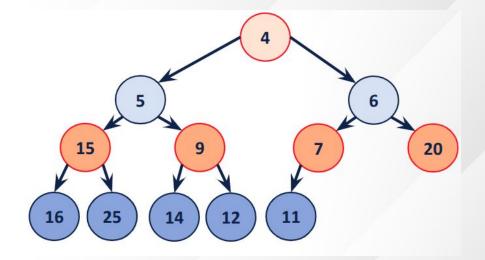




Min-Heap Definition

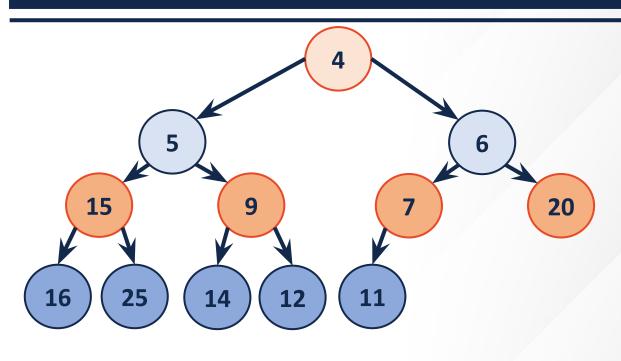
A complete binary tree T is a min-heap if:

T = {r, T_L, T_R}, where
r is less than the
roots of {T_L, T_R} and
{T_L, T_R} are
min-heaps.



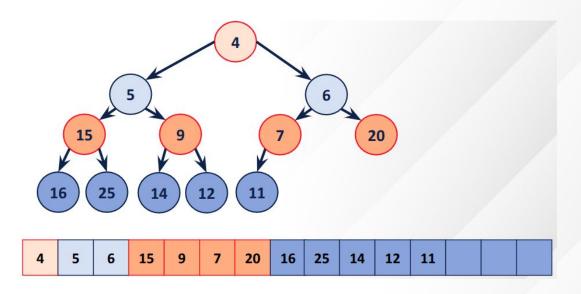


Min Heap Implementation





Traversing a Heap: 1-index





Traversing a Heap: 0-index

