- constant time: O(1)

  ☑ constant number of operations

- logarithmic time: O(log n)

  ☑ the depth of a balanced tree

- linear time: O(n)

  ☑ the complexity of iterating through a list

- linearithmic time: O(n log n)


fastest sorting algorithms

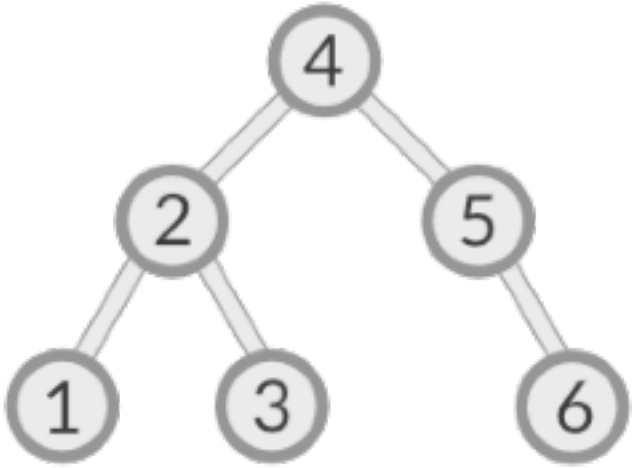
- exponential time: $O(n^2)$, $O(n^3)$…

☑ for in for

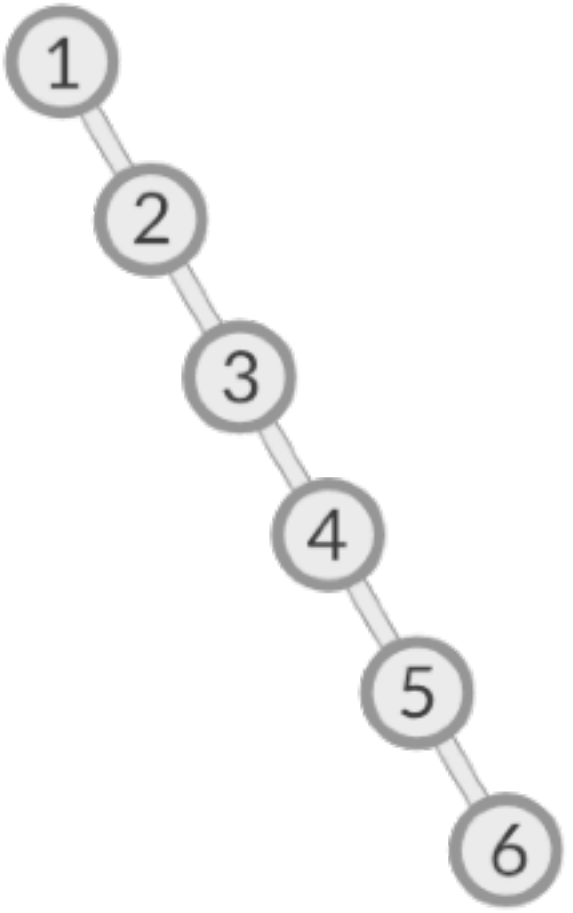
Time Complexities Refresh

maximum number of operations that an algorithm may perform

Balanced: $\log_2(n)$



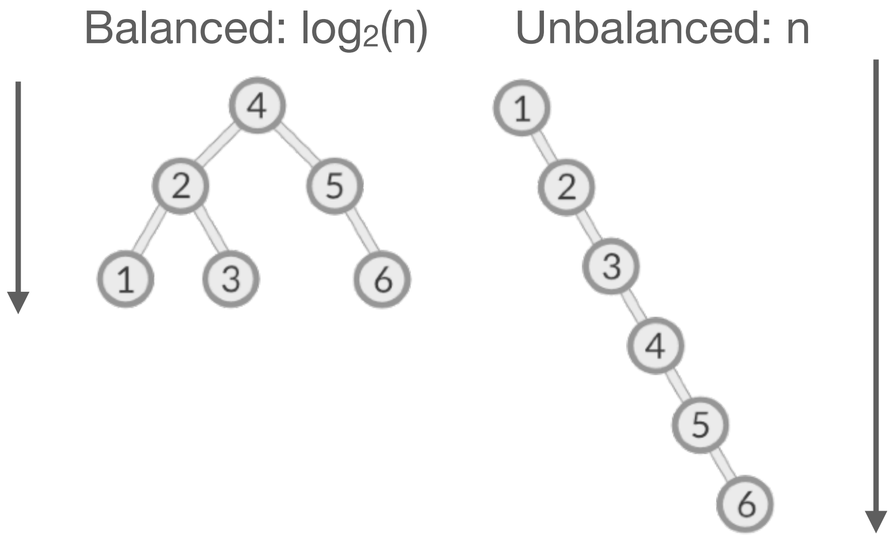
Unbalanced: n



Time Complexities Refresh

maximum number of operations that an algorithm may perform

- constant time: O(1)
  - ☑ constant number of operations
- logarithmic time: O(log n)
  - ☑ the depth of a balanced tree
- linear time: O(n)
  - ☑ the complexity of iterating through a list
- linearithmic time: O(n log n)
  - ☑ fastest sorting algorithms
- exponential time: $O(n^2)$, $O(n^3)$…
  - ☑ for in for



Time Complexities Game