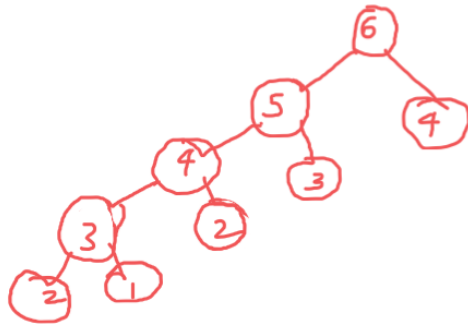


Memoized Solution



exponential to linear complexity

$O(n)$  - time

$O(n)$  - space