AlgoExpert Quad Layout Python 12px Sublime Monok

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

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Solution 1 Solution 2 Solution 3
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 1
 2
     \# O(n) time | O(n) space - where n is the length of the array
 3
 4
    ▼ def minHeightBst(array):
           return \  \, construct \texttt{MinHeightBst}(array, \ \textbf{0}, \ len(array) \ - \ \textbf{1}) \\
 5
 6
 7
 8 ▼ def constructMinHeightBst(array, startIdx, endIdx):
 9 ▼
         if endIdx < startIdx:</pre>
              return None
10
11
         midIdx = (startIdx + endIdx) // 2
12
         bst = BST(array[midIdx])
         bst.left = constructMinHeightBst(array, startIdx, midIdx - 1)
13
14
         bst.right = constructMinHeightBst(array, midIdx + 1, endIdx)
15
          return bst
16
17
18 ▼ class BST:
         def __init__(self, value):
19
20
              self.value = value
              self.left = None
21
              self.right = None
22
23
24
         # We don't use this method for this solution.
25 ▼
          def insert(self, value):
              if value < self.value:</pre>
26 ▼
                  if self.left is None:
27 ▼
                      self.left = BST(value)
28
29 ▼
                  else:
                      self.left.insert(value)
30
31 ▼
              else:
                  if self.right is None:
32 ▼
                      self.right = BST(value)
33
34 ▼
                  else:
35
                      self.right.insert(value)
```