Algorithm 1: find_best_split

```
\triangleright this is a comment
                                                                        \triangleright this is another comment
           else
 5
             \mathtt{node\_budget} = \frac{\mathtt{tree\_budget}}{2*2^{\mathtt{curr.depth}+1}}
 6
 7
          node\_budget = \frac{tree\_budget}{2*max\_depth}
 8
 9
       // construct the node
      TreeNode *node = new TreeNode(candidates[index])
10
       return node
11
```