This week's tutorial has you manipulating B-trees.

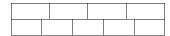
# Example 1: B-tree of order 5

We start the exercise with a B-tree of order M = 5. Every node (except the parent) in a B-tree of order 5 must have at least 2 values ((M-1)/2) and at most 4 values (M-1).

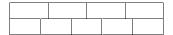
At the beginning, the B-tree has three values: 50, 72 and 90 all in the root.

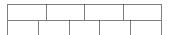
50	72	90		

1. Add the value 60 to the B-tree:



2. Add the value 55 to the B-tree:





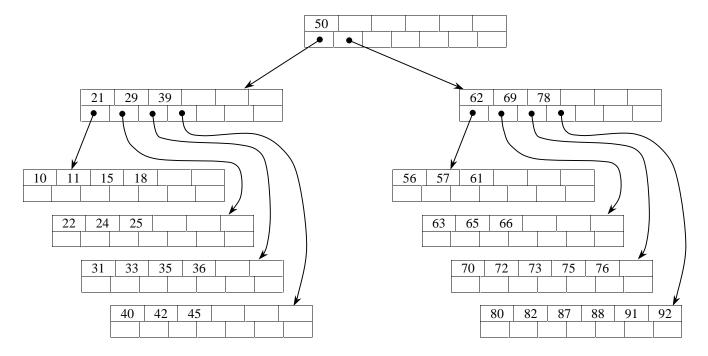


# 3. Add 63 to the B-tree: 4. Add 80: 5. Add 85: 6. Add 66:

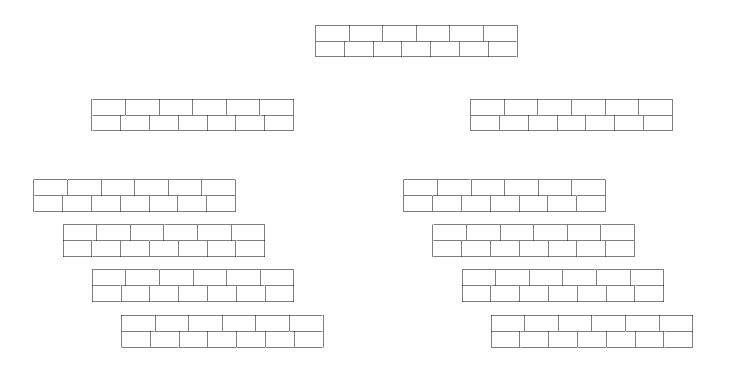
7. Delete 90:	
8. Delete 60:	
o. Detete 00:	

# Example 2: B-tree of order 7

Let's have a look at a slightly bigger example: a B-tree of order 7 with lots of nodes already in the tree.

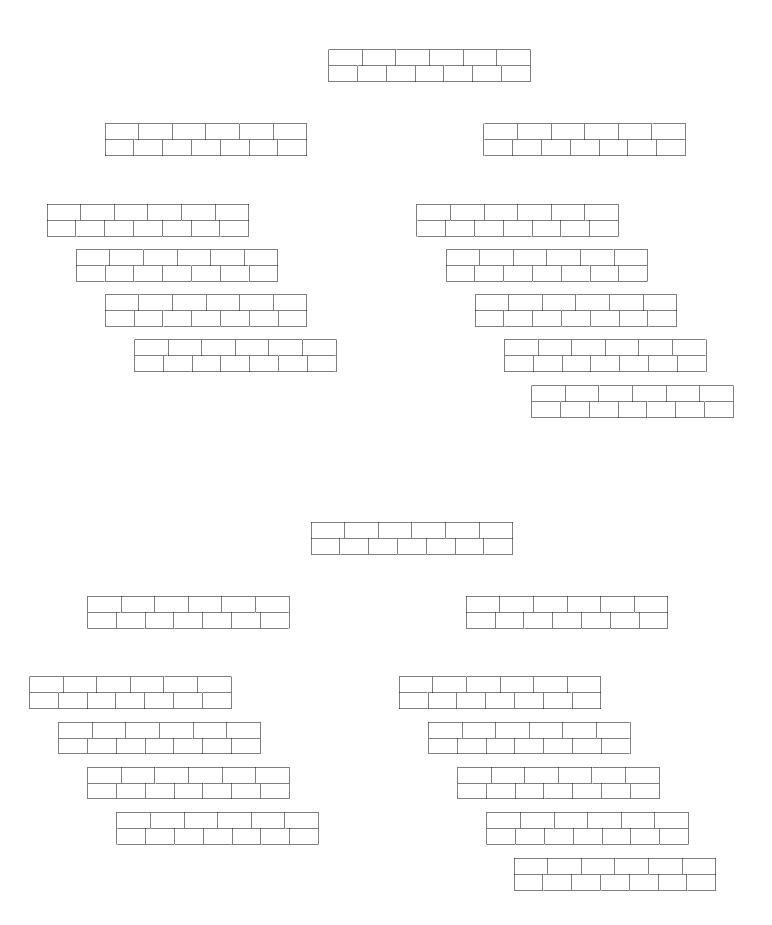


#### 9. Add the key with value 77:



# 10. Add 81:

# 11. Delete 50:



# 12. Delete 36:

