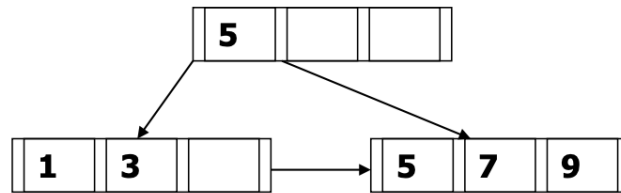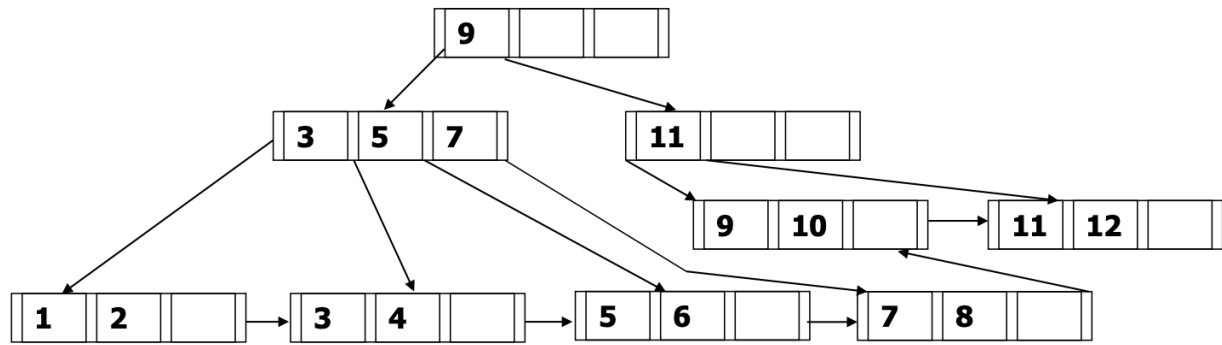Name:_____

B+ Tree Worksheet for CS166

Show the tree after inserting 1,3,5,7,9 in that order. For this problem, assume each node is able to store 3 values (or 4 pointers)

```
                    ┌───┬───┬───┐
                    │ 5 │   │   │
                    └───┴───┴───┘
                   /            \
        ┌───┬───┬───┐        ┌───┬───┬───┐
        │ 1 │ 3 │   │ ──────▶│ 5 │ 7 │ 9 │
        └───┴───┴───┘        └───┴───┴───┘
```

Show the tree after inserting 2, 4, 6, 8, 10 into the above tree.

Show the tree after deleting 9, 7, 8 from the above tree. Note the leaf nodes did not all fit at the bottom level, so they are slightly above on the right side of the page. The tree has three levels only.