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a. Show the result of inserting the following keys into an initially empty 2-3 tree: 3, 1, 4, 5, 9, 2, 6, 8, 7, 0.
b. Show the result of deleting 0 and then 9 from the 2-3 tree created in part (a).

a:

| 3, 1, 4 |

```
        4 : -
       /     \
   3, 1, 2   4, 5, 9
```

```
         4 : 6
        /   |   \
    3, 1, 2  4, 5  6, 9, 8
```

```
              6 : -
            /        \
        4 : -          8 : -
       /     \        /     \
   3, 1, 2  4, 5   6, 7    8, 9
```

```
                    6 : -
                  /        \
              2 : 4          8 : -
             /   |   \      /     \
         0, 1  2, 3  4, 5  6, 7   8, 9
```

b:

```
         4 : 6
        /   |   \
    1, 2, 3  4, 5  6, 7, 8
```