Insert 3

                                                3

Insert 21

                                              3 21

Insert 9

                                            3 9 21

Insert 1

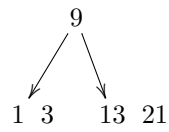   1 3 9 21

Insert 13

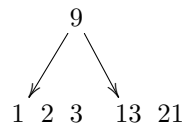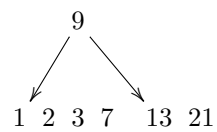   1 3 9 13 21
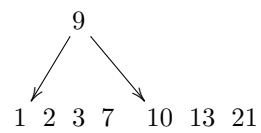
But that violate condition 5, so we promote 9.
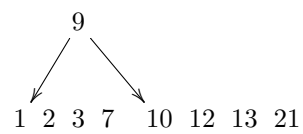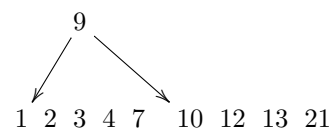
                                                9
                                               ╱ ╲
                                              ↙   ↘
                                          1 3   13 21

Insert 2

                                                9
                                               ╱ ╲
                                              ↙   ↘
                                          1 2 3   13 21

Insert 7

                                                9
                                               ╱ ╲
                                              ↙   ↘
                                         1 2 3 7   13 21

Insert 10

                                                9
                                               ╱ ╲
                                              ↙   ↘
                                        1 2 3 7   10 13 21

Insert 12

                                                9
                                               ╱ ╲
                                              ↙   ↘
                                       1 2 3 7   10 12 13 21

Insert 4

                                                9
                                               ╱ ╲
                                              ↙   ↘
                                     1 2 3 4 7   10 12 13 21
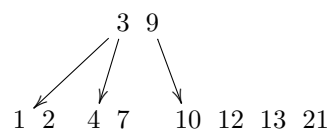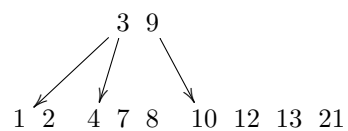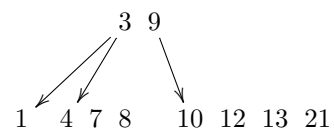
But that violate condition 5, so we promote 3:

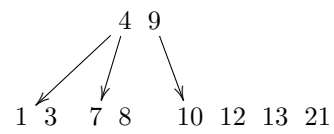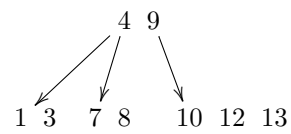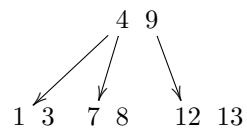   3 9
                                             ╱ │ ╲
                                            ↙ ↓ ↘
                                       1 2   4 7   10 12 13 21

Insert 8

                                              3 9
                                             ╱ │ ╲
                                            ↙ ↓ ↘
                                     1 2   4 7 8   10 12 13 21

Delete 2

```
                                3 9
                          ╱   ╱      ╲
                     1    4  7  8    10  12  13  21
```

Too few siblings, so we rotate 3 and 4

```
                                4 9
                          ╱   ╱      ╲
                     1 3    7  8    10  12  13  21
```

delete 21

```
                                4 9
                          ╱   ╱      ╲
                     1 3    7  8    10  12  13
```

delete 10

```
                                4 9
                          ╱   ╱      ╲
                     1 3    7  8    12  13
```

delete 3

```
                                4   9
                          ╱  ╱        ╲
                     1    7  8    12  13
```
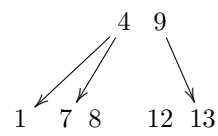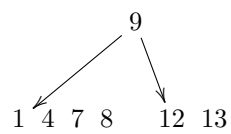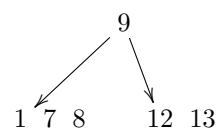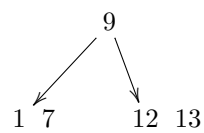
Too few siblings, so we combine 1, 4, 7, 8

```
                                9
                          ╱        ╲
                     1 4 7 8    12  13
```
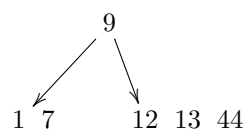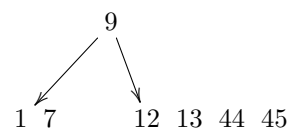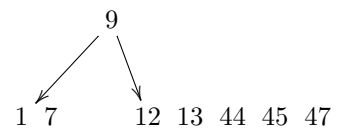
delete 4

```
                                9
                          ╱        ╲
                     1 7  8    12  13
```

delete 8

```
                                9
                          ╱        ╲
                     1 7     12  13
```

insert 44

```
                                9
                          ╱        ╲
                     1 7     12  13  44
```

insert 45

```
                                9
                          ╱        ╲
                     1 7     12  13  44  45
```

2

insert 47

```
                              9
                         ╱        ╲
                   1  7        12  13  44  45  47
```

Too many siblings, so we promote 44

```
                          9  44
                      ╱      │      ╲
                1  7      12  13      45  47
```

insert 48

```
                          9  44
                      ╱      │      ╲
                1  7      12  13      45  47  48
```

insert 49

```
                          9  44
                      ╱      │      ╲
                1  7      12  13      45  47  48  49
```