Example insert 1,2, 3, 4, 5, 6, 7
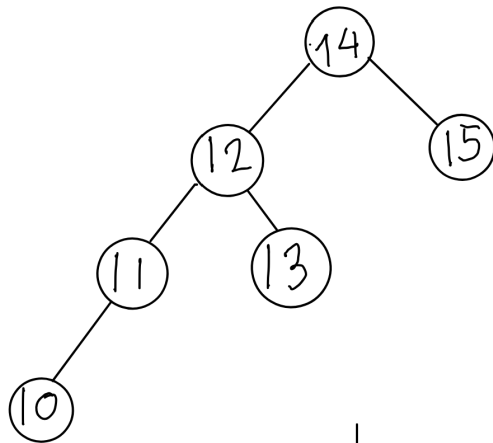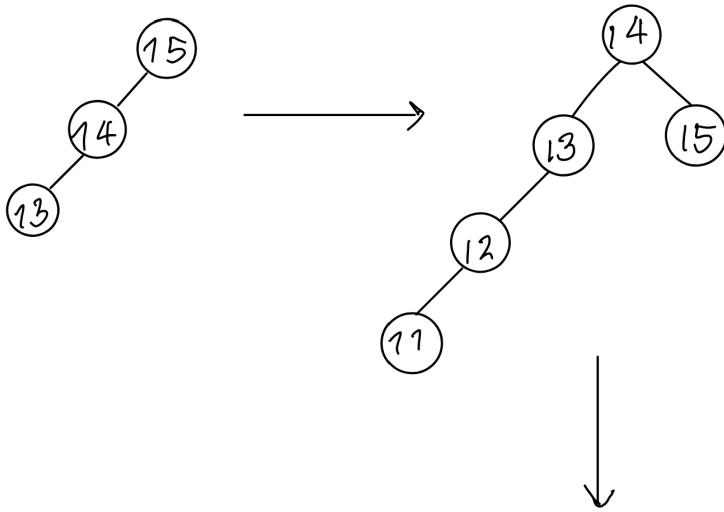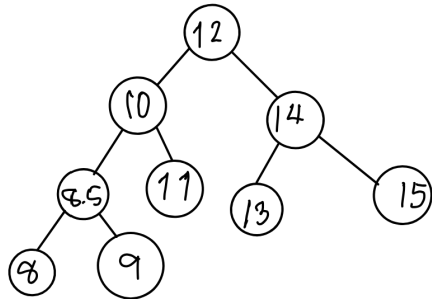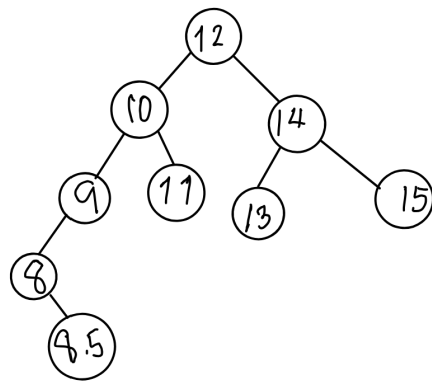
insert 15, 14, 13, 12, 11, 10, 9, 8, 8.5

12
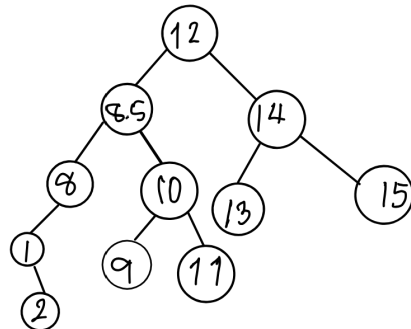10 14
9 11 13 15
8
8.5

12
10 14
8.5 11 13 15
8 9

insert 1, 2, 3, 4, 5, 6, 7

insert 1

12
10 14
8.5 11 13 15
8 9
1
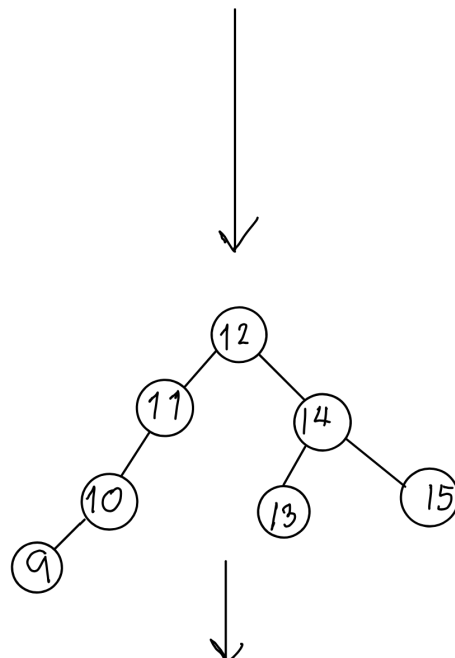
insert 2
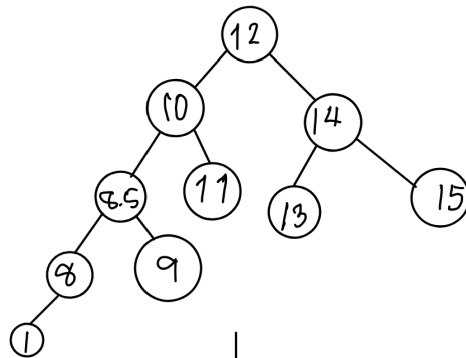
12
8.5 14
8 10 13 15
1 9 11
2

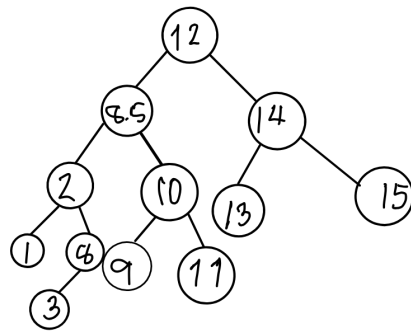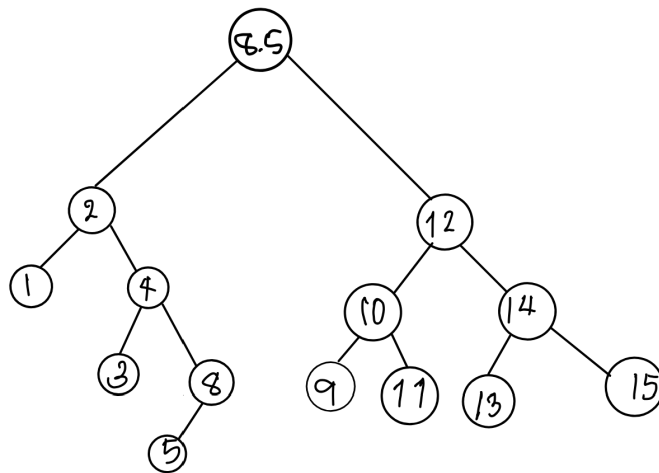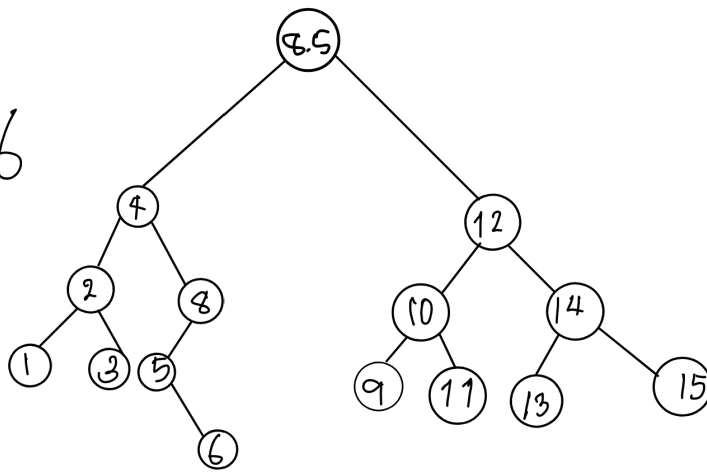insert 3

insert 4

insert 5

insert 6

8.5
├── 4
│   ├── 2
│   │   ├── 1
│   │   └── 3
│   └── 8
│   └── 5
│   └── 6
└── 12
    ├── 10
    │   ├── 9
    │   └── 11
    └── 14
        ├── 13
        └── 15

insert 7

8.5
├── 4
│   ├── 2
│   │   ├── 1
│   │   └── 3
│   └── 6
│   ├── 5
│   └── 8
│   └── 7
└── 12
    ├── 10
    │   ├── 9
    │   └── 11
    └── 14
        ├── 13
        └── 15