



Blatt 6

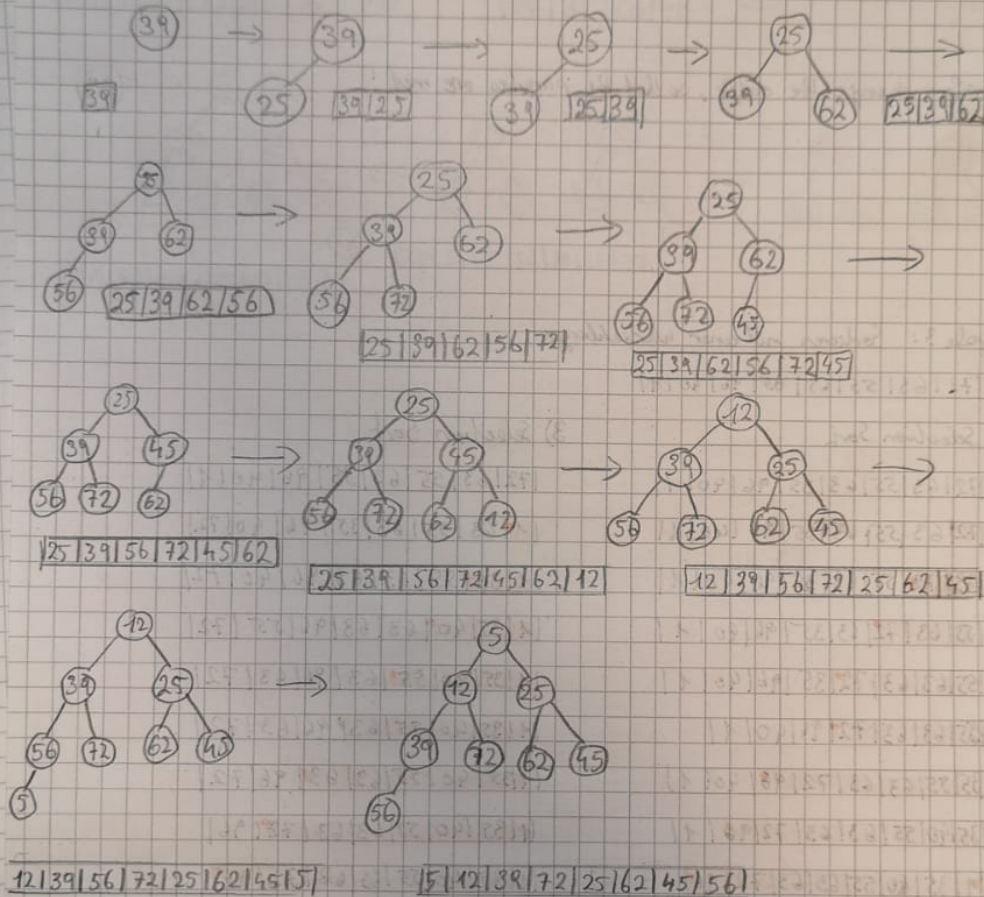
Aufgabe 1

```
@Override
public int compare(IncomingPlane o1, IncomingPlane o2) {
    if (o1.getRemainingFuel() < 25 || o2.getRemainingFuel() < 25) {
        if (o1.getRemainingFuel() < o2.getRemainingFuel()) {
            return -1;
        } else if (o1.getRemainingFuel() > o2.getRemainingFuel()) {
            return 1;
        } else {
            return 0;
        }
    } else if (!(o1.getRemainingFuel() < 25 || o2.getRemainingFuel() < 25)){
        if (o1.getDelay() < 0 && o2.getDelay() < 0){
            if (o1.getRemainingFuel() < o2.getRemainingFuel()) {
                return -1;
            } else if (o1.getRemainingFuel() > o2.getRemainingFuel()) {
                return 1;
            } else {
                return 0;
            }
        }
    } else {
        if (o1.getDelay() < o2.getDelay()) {
            return -1;
        } else if (o1.getDelay() > o2.getDelay()) {
            return 1;
        } else if (o1.getDelay() == o2.getDelay()) {
            return 0;
        }
    }
    return 0;
}
```

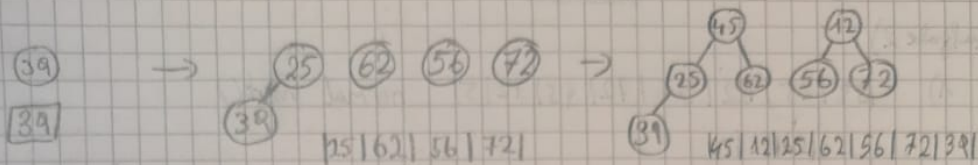
Aufgabe 2-3

uf Aufgabe 2)

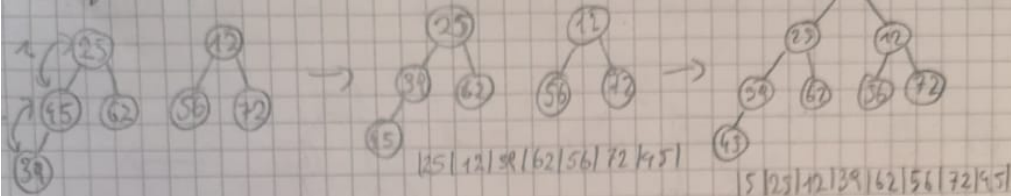
1) 189/25/62/56/72/45/12/5/ normal Insert()



2)



heapsify: change the order, so that the preques are met!



Aufgabe 3: Sortieren mit einer Wartezeit

[72 | 63 | 55 | 63 | 35 | 96 | 40 | 1]

2) Insertion Sort

[72 | 63 | 55 | 63 | 35 | 96 | 40 | 1]
 [72 | 63 | 55 | 63 | 35 | 96 | 40 | 1]
 [63 | 72 | 55 | 63 | 35 | 96 | 40 | 1]
 [55 | 63 | 72 | 63 | 35 | 96 | 40 | 1]
 [55 | 63 | 63 | 72 | 35 | 96 | 40 | 1]
 [35 | 55 | 63 | 63 | 72 | 96 | 40 | 1]
 [35 | 40 | 55 | 63 | 63 | 72 | 96 | 1]
 [1 | 35 | 40 | 55 | 63 | 63 | 72 | 96]

3) Selection Sort

[72 | 63 | 55 | 63 | 35 | 96 | 40 | 1]
 [1 | 63 | 55 | 63 | 35 | 96 | 40 | 72]
 [1 | 35 | 55 | 63 | 63 | 96 | 40 | 72]
 [1 | 35 | 40 | 63 | 63 | 96 | 55 | 72]
 [1 | 35 | 40 | 55 | 63 | 96 | 63 | 72]
 [1 | 35 | 40 | 55 | 63 | 96 | 63 | 72]
 [1 | 35 | 40 | 55 | 63 | 63 | 72 | 96]
 [1 | 35 | 40 | 55 | 63 | 63 | 72 | 96]

1) Heap Sort

