





```
private void downHeapify(int pi){
    int lci = 2*pi + 1;
    int rci = 2*pi + 2;

    int mini = pi;

    if(lci < data.size() && data.get(lci) < data.get(mini)){
        mini = lci;
    }

    if(rci < data.size() && data.get(rci) < data.get(mini)){
        mini = rci;
    }

    if(mini != pi){
        swap(pi,mini);
        downHeapify(mini);
    }
}
// remove
public int remove(){
        if(data.size()==0){
            System.out.println(x; "There is no element in heap");
            return -1;
    }

    swap(i: 0,data.size()-1);
    int rv = data.remove(data.size()-1);
    downHeapify(pi: 0);
    return rv;
}</pre>
```

و 2, 3, 1, 6, 4, 9, 8, 10, 19, 18

