Up Heapity H.O.9 > boltom > hop y remore -> (downkerpty) Mo.P > hops bottom of Pg -> add -> (upHeapity) [child compare por] (Inkgu > < , \(\sim\)\_{==} (Shident > ?)

(2) [Interface > (Empty structure) / Contract of Junctions]

(3) other a class implements an integral then class his to provide body to Junction

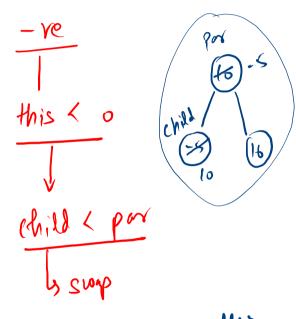
public int Compare to ( o) } - he this to

the this > o

this = = o Comparable ->

```
Comparable child = (Comparable) cVal;
Comparable par = (Comparable) pVal;
if(child.compareTo(par) < 0){
    // swaping
    data.set(pidx,cVal);
    data.set(idx,pVal);
    upHeapify(pidx);
}</pre>
```

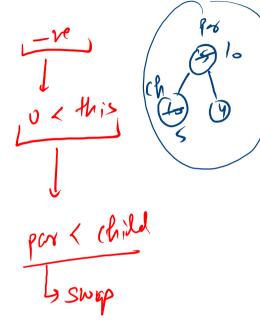
```
public int compareTo(Student o){
    return this.marks - o.marks;
}
```



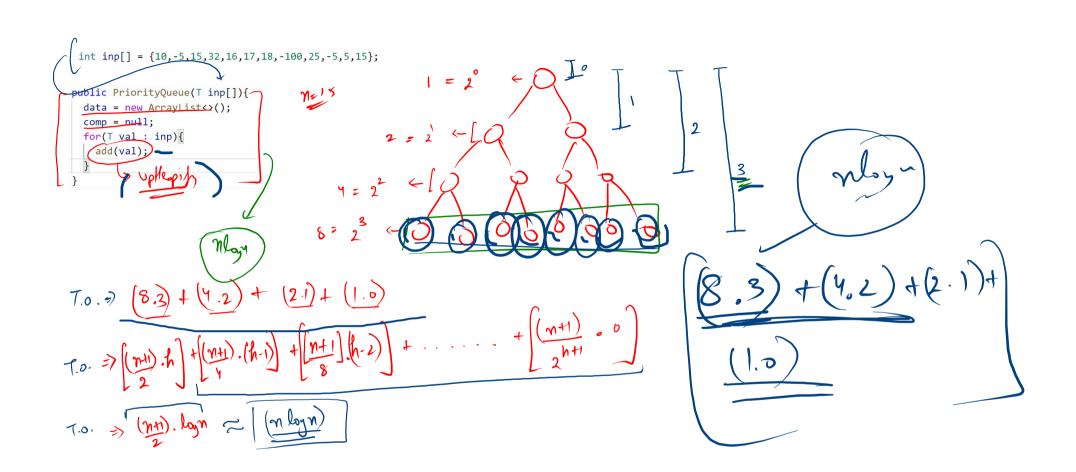
> we will get smaller value at the top

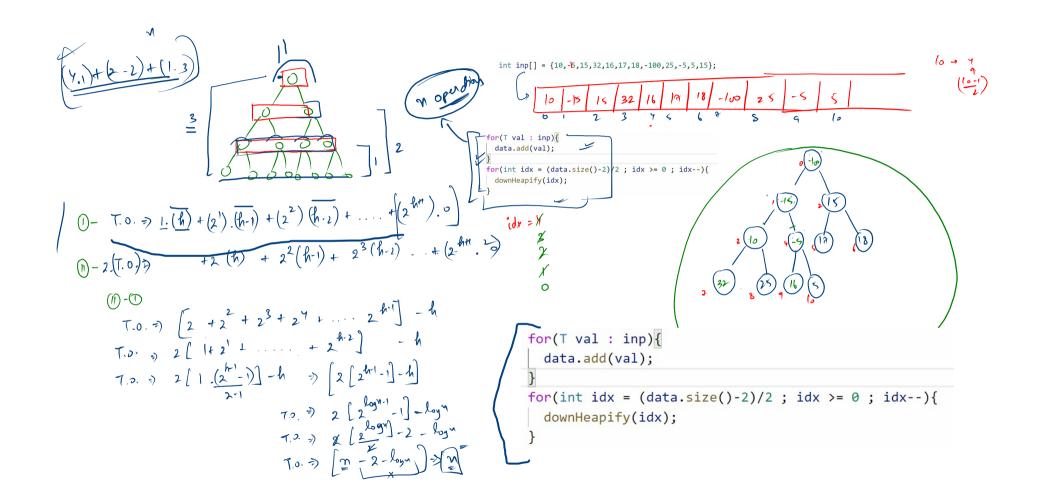
I.P. min priority

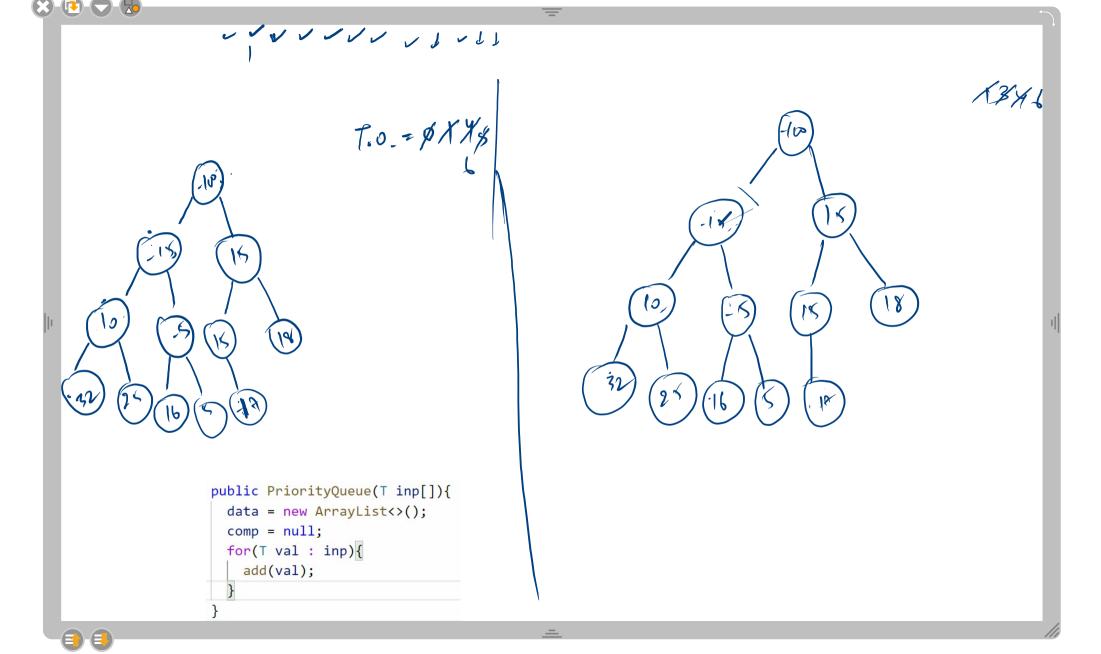




at the top







1 0 9 8 7 6 5 4 3 2 1 -1 2 0 (F)



private boolean isSmaller(int cidx,int pidx){ 1) Pg - add/somore - up beiging / down keepth Comparable child = (Comparable) data.get(cidx); Comparable par = (Comparable) data.get(pidx); ~if(child.compareTo(par) < 0){↑ return true; }else{ return false;