

Barry Ayıldız 1901042252 (SE 222 Midlerm Bayyelde 5) Let's assure this is a min-heap public boolean update (int index, E val) } if (this.size() <= index) return false;
ancindex] = vail; int parent=(index-1)/2; mt left = 2xmdexx1; mt night = 2x index + 2; while (parent >, 088 orr [inda]. compreto (orr (parent)) (0) { less than parent E temp = orr (parent]; orr [parent] = orr [index]; orr[index] = temp; mdex = Parent; perent= (mdex-1)/2; if (or (left) . compare To (orr (xight))>0) child=left; ese child= right; while (orr Eindex)-compare To (orr (child]) >0) && child <+12.5.5() } E temp=orr [child]; orr (child) = orr (inda); orr (vdex) = temp; mdex = child; left = 2x mdex+1; right= 2 * mdex + 2; th (at [reft] combase 10 (at [tight] >0) child=reft; eve child=night; & return true; {

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B. Syydol

Thest = $\Theta(1)$ - when the new value is not greater than the childs nor lower than the parent. Or when index is

Mdox=1 Voil=8 7 10

(10)

Twort= O(logn) Depends on the neight of the tree