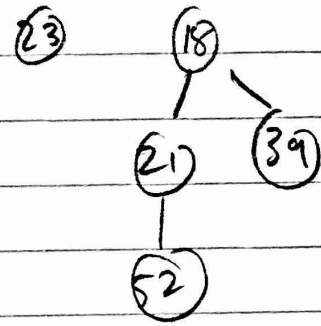


and the
other
trees



Since there is now a unique tree of any given word, the "clean-up" of the heap is done. We showed in lecture that this is $O(\lg n)$. We also need to find the new H.min, which is also $O(\lg n)$ since there are $O(\lg n)$ trees. Therefore, the entire procedure is $O(\lg n)$.