

1. $F(n) < 5n$
2. removing an element takes $O(\log n)$ time in the worst case
The minimum element can be found in $O(\log n)$ time
3. $HC(n) = HC(n-1) + HC(n-2) + HC(n-3)$
4. $M(n) = M(\frac{n}{2}) + 1$
5. $T(n) = 1$
6. $M(n) = 2 * M(\frac{n}{2}) + 1$
7. $T(n) = n \log n$