If (first != null) { / list is not empty #/ If (firstinex t == null) // list has only I node first=null; // deletes first else { // there are at least 2 nodes, find next to last for ( Node top= first; top. next.next!= null; top= top, next); 11 now top points to 2nd to last node Empinext = null; This deletes 6) () d) 2N3 10/2(2)+109(~) = 1  $\frac{\log(2N)}{\log(N)} = \frac{\log(2) + \log(2)}{\log(N)}$  $\frac{1}{19(N^{2}+1)} \sim \frac{1}{19(N^{2})} = \frac{2\log(N)}{\log(N)} = 2$   $\frac{1}{2} \frac{1}{2} \frac$ #3 m nlogn b) (N+1) P/2 2 P where P= [/ogN] order of growth N c) Nlog N