**Problem :** [**Removing Digits**](https://cses.fi/problemset/task/1637)

**Approach :** [**https://youtu.be/32qvB7OP4V8**](https://youtu.be/32qvB7OP4V8)

-> From a number ‘n’ , try to subtract each of it’s digits one by one, and find out the number of steps required by the new number to reach 0 by all of these new numbers , and whichever gives min steps , our answer will be 1+that min. no of steps found.

-> At most there will be ‘n’ unique numbers to be checked (here n=10^6), and in each number there are logn digits and dp[n-individual digit] will already be calculated by the tree below,**so for ‘n’ digits we need to check dp of logn individual digits**(which one is giving minimal steps),

So **TIME = O(nlogn)**

**Code :** [**https://ideone.com/GfZjHM**](https://ideone.com/GfZjHM)