

→ Problem 2:

b) in each step the alg make make division of the number by the the base case, ~~the max dept~~

With base b and k_{\max} element. we put $d = \log_b k$ in worst case scenario.

in addition to find max elem we get time complexity $O(dn)$
Space complexity is the one of the helper sorting alg, that is performed n times so space complexity would be $O(dn)$