List with More to Front Heuristic - in an Implementation shown before, we perform access(e) method in time proportional to the index e - If e is kth most popular element in list, accessing it takes O(k) time - a heuristic (rule of thumb) that takes advantage of the locality of reference that is present in an access sequence is the move-p-fant heuristic - to apply, euch time we access an element we more it all the way to the block front with hope that the element will be accessed soon again Consider a scenario where we have in elements and following no accesses: - element 1 accessed n times - element 2 accessed in times - element in accessed in filmes If me stone elements corted by access counts, inserting each the first time they are accessed, - each access to element 1 takes O(1) 2 takes 0(2) - each access to element n runs in O(n) time Thus, the time is proportional to: n. (n+1). n, or O(n3) Link Based rs. Array Based Sequences - arrays provide O(1)-time access to an element based on an integer index; locating the kth element in a linked list regulares Olk) time arras - operations w/ equivalent asymptotic bounds typically van a constant factor more efficiently w/ an army-hused structure vs. a linked list structure - array-based implementations usually use less memory proportionally linked list -> link-based structures provide worst-case time bounds - link-based structures support O(1)-time insertions & deletions at arbitrary positions

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