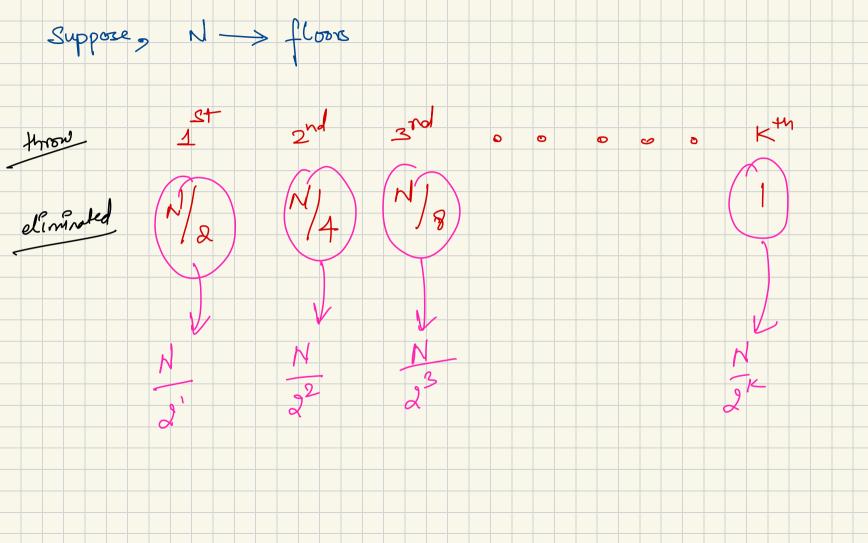
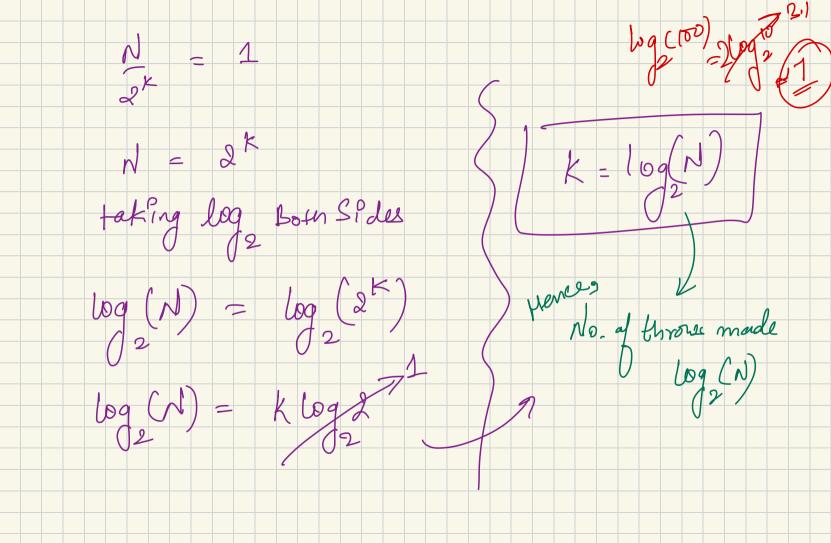
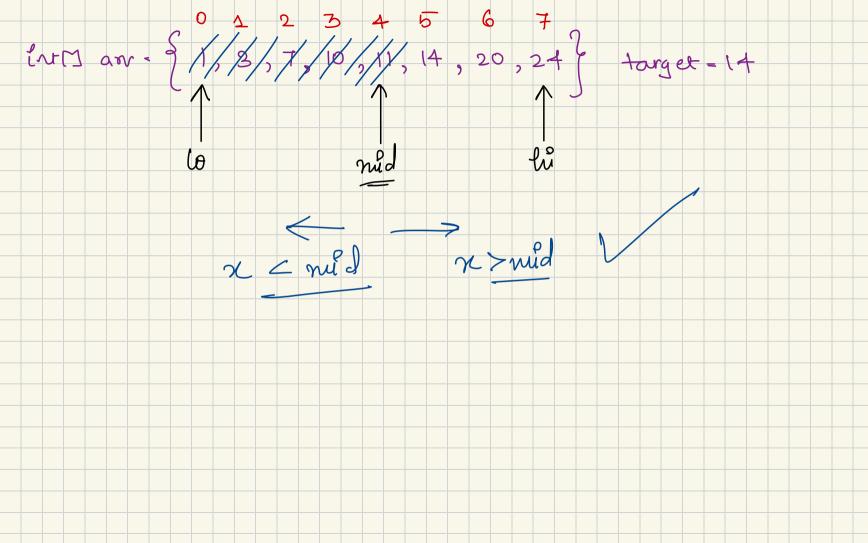


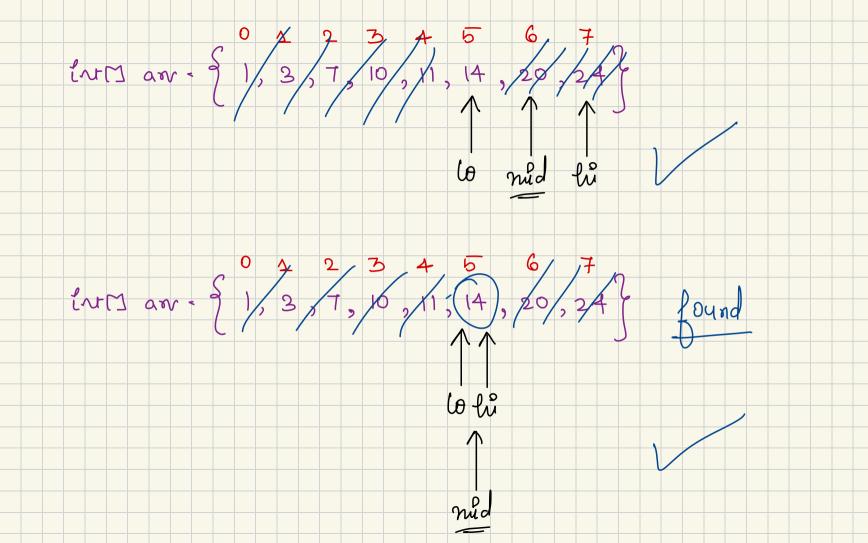
Binary Search · Searching Algoritum int 1 an - 9 1, 3, 7, 10, 11, 14, 20, 24 (target = 14 O linear Search for () ut? = 0 -> 1) if (antil = = target) TC!O(r) return i'

run. floor from which boick will break Puzzle NOTE! single brich con't be used again, use nun no. of bricks wing 1 back, I eliminated so floors wing 2nd brick, I eliminated 25 floors wing 5 boick, I diminated 12 floors Doesn't break wing kth brick, I eliminated 1 floor.



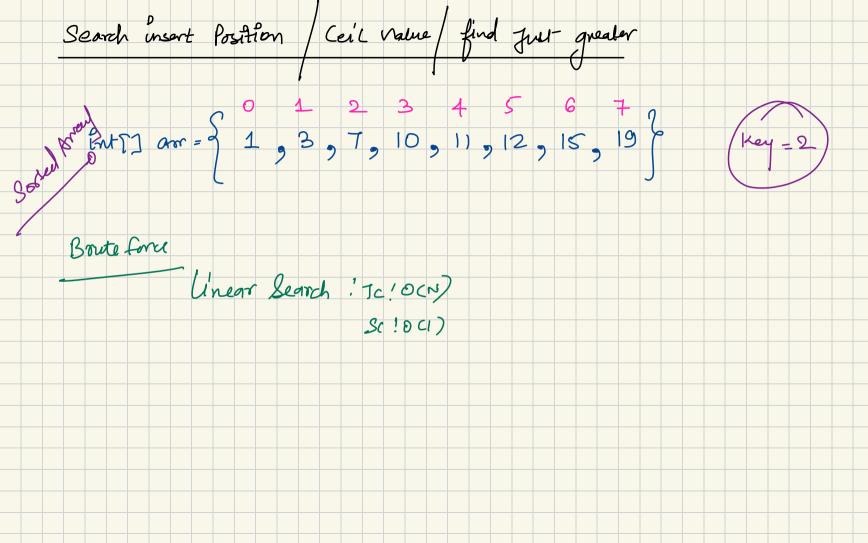


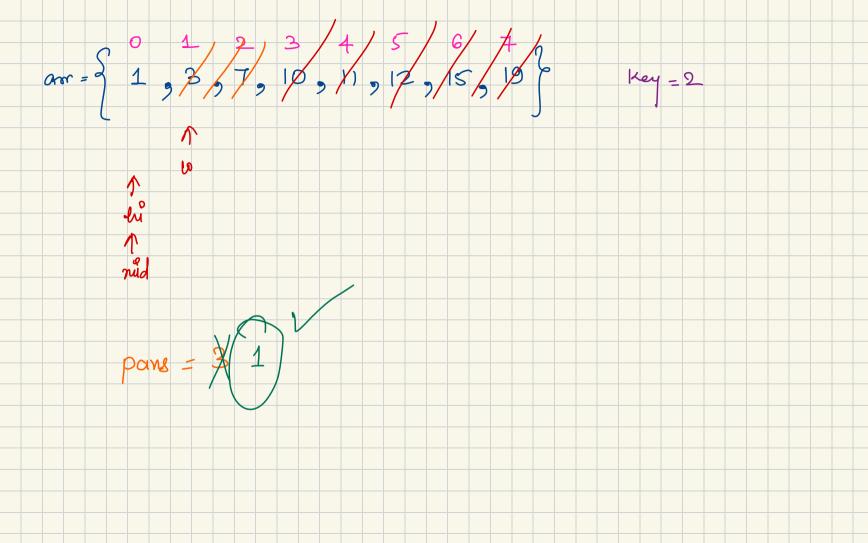


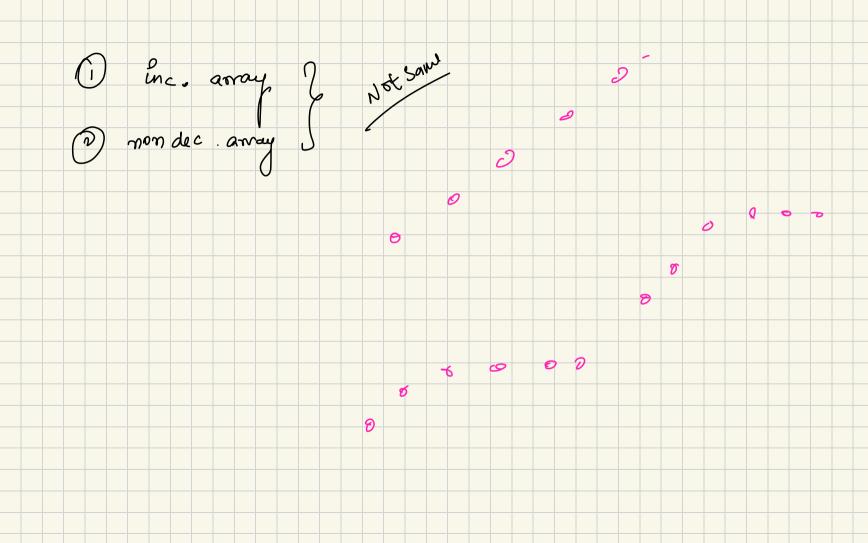


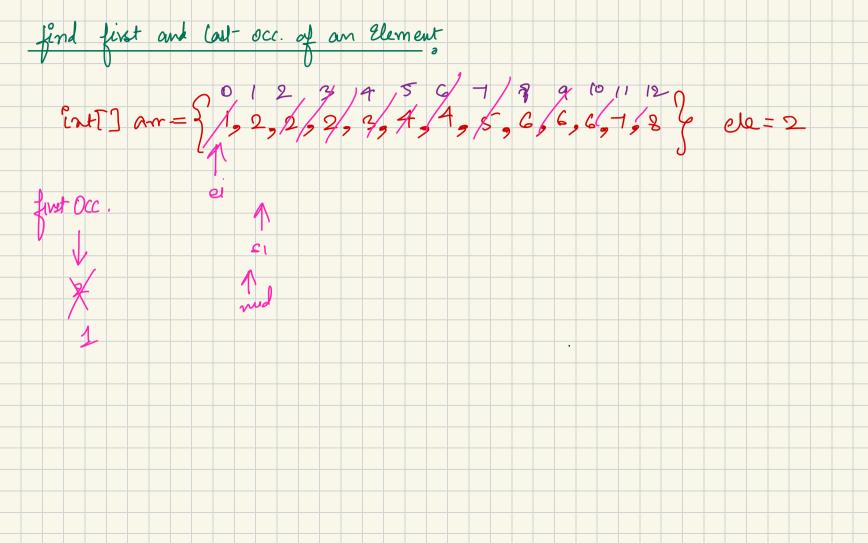
Time Complenity - O(log N) Space Complementer = 0 (1) Binary Search a déféne negéon af Search e Colc vid , and divide region into 2 half e try to deninate one half, and superint

Binary Search region a sorted expected TC:0(log N) SC!O(1) -> 99 % of chances BS Ques.









Square Root 0 L> int n SgTT (N) : perfect sque . -> find sqst Vn Cast ! not perfect square = floor(x/n) Case

Brute force o for (jut i=1; i < = x; i+e) $|f(1x)| \leq 2$ $|f(1x)| \leq 2$ TC! D(n) & SC:0(0)

