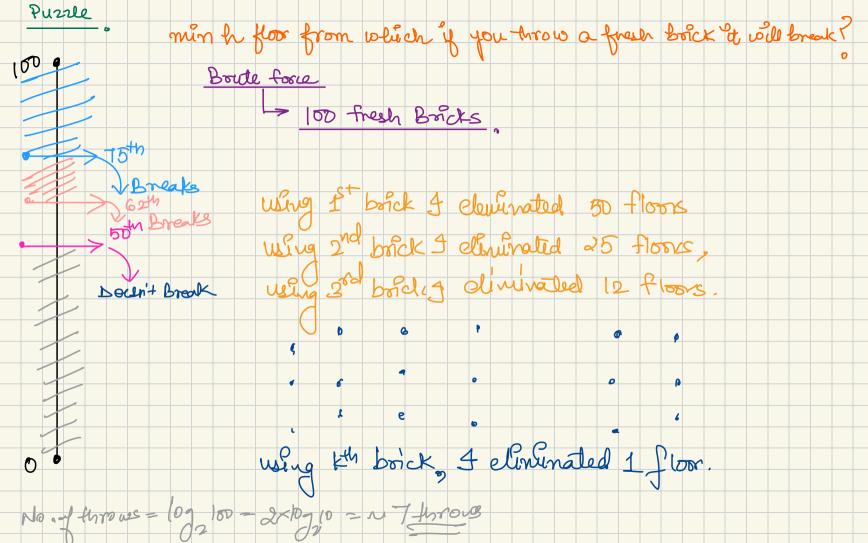
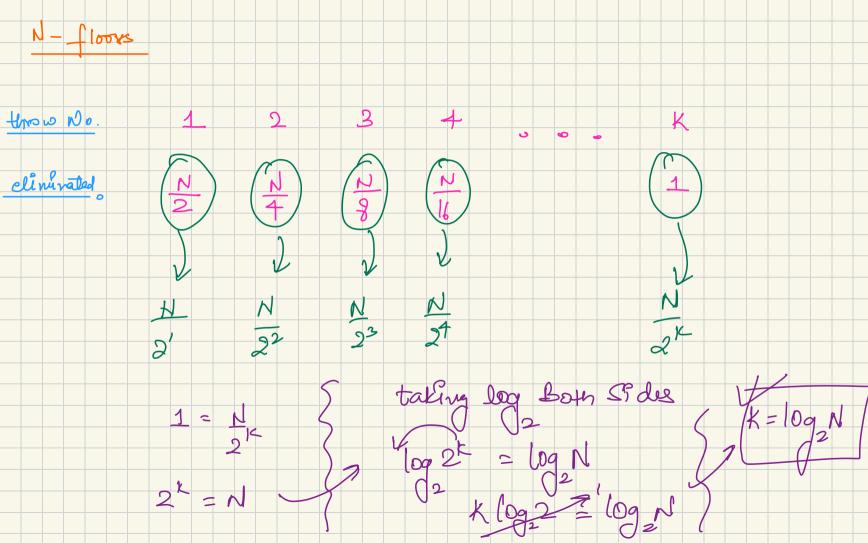
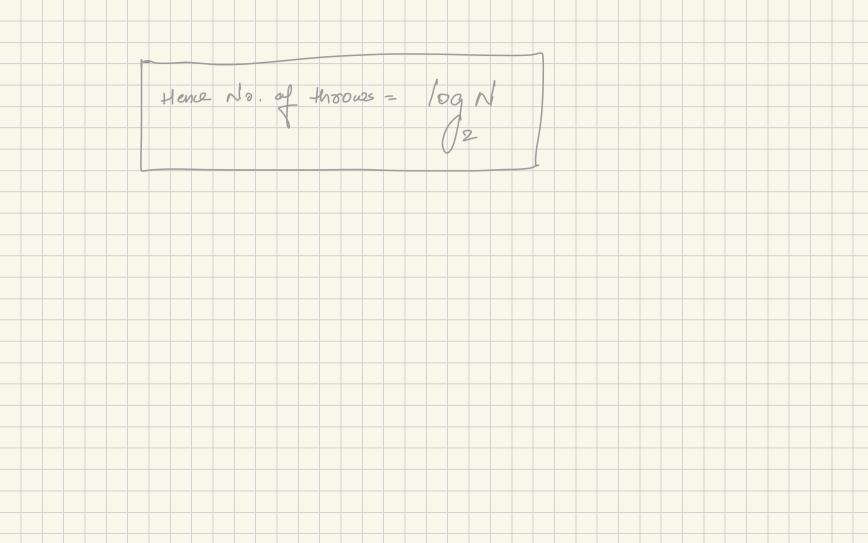
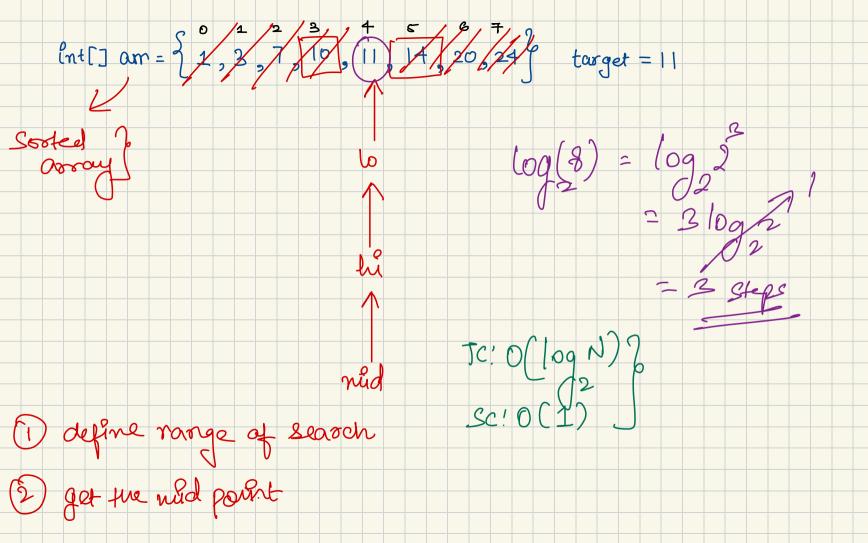


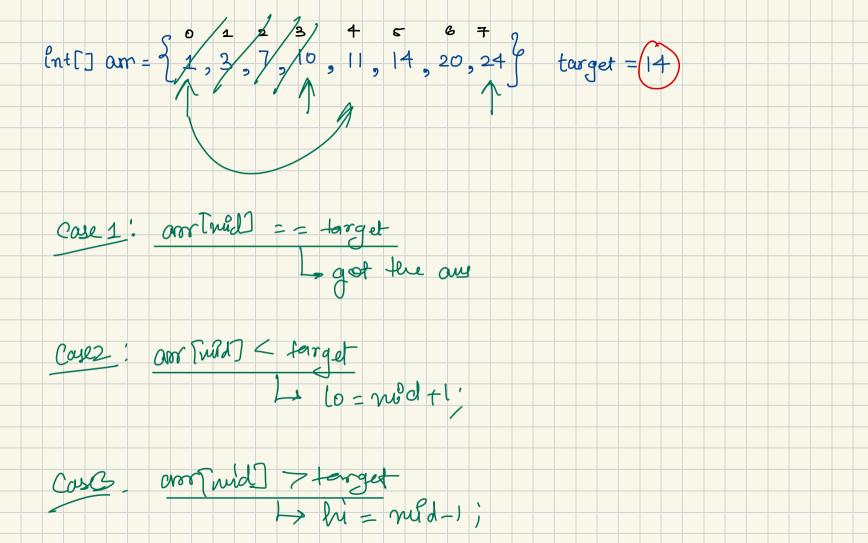
Binary Search ? Algorithm? & Searching Algorithm? [n+[]] am = $\begin{cases} 0 & 1 & 2 & 3 & 4 & \epsilon & \epsilon & 7 \\ 1 & 3 & 7 & 10 & 11 & 14 & 20 & 24 & target = 14 \end{cases}$ Boute force Linear Search for (int i = 0 -> n) ef (ar [?] = = target) SC ! O(1) return?

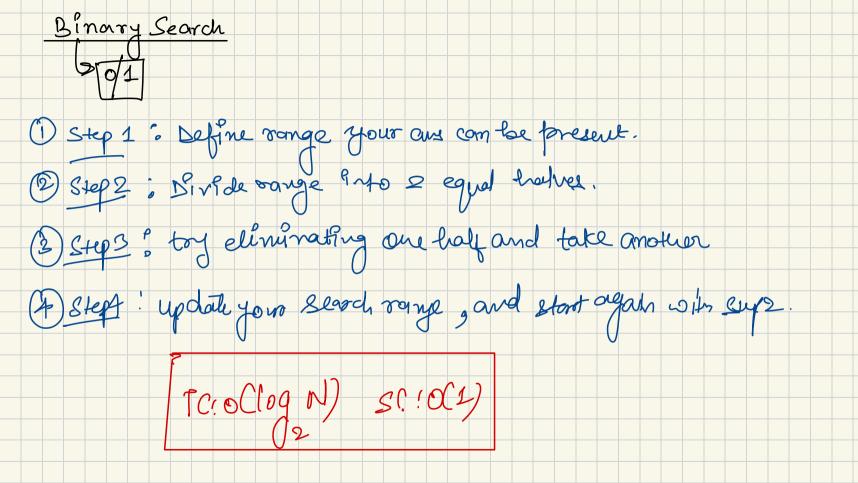






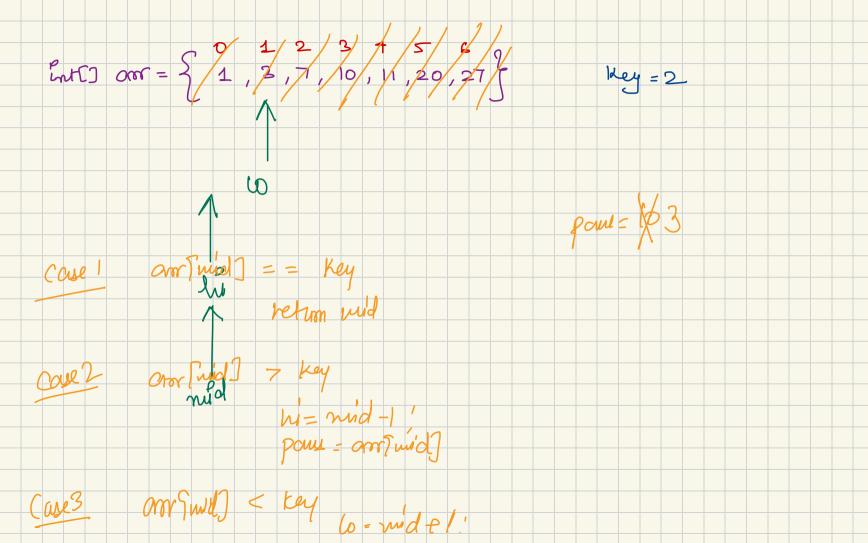


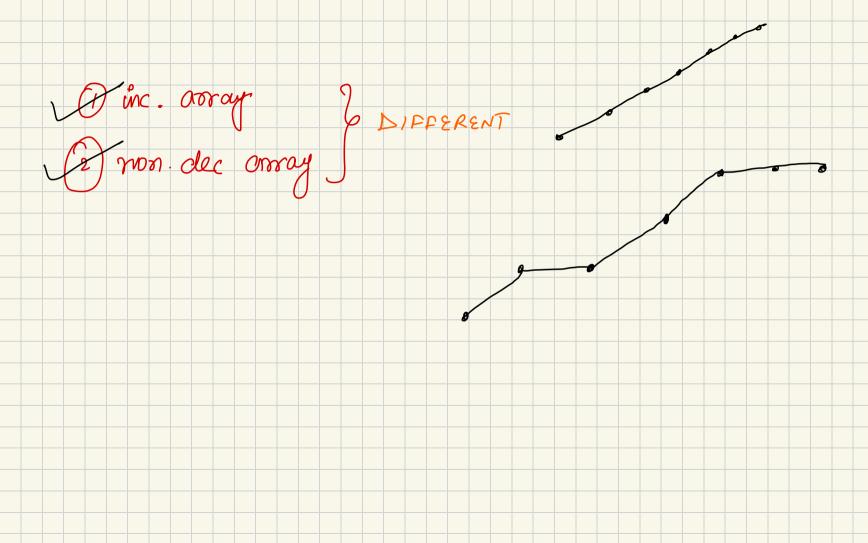




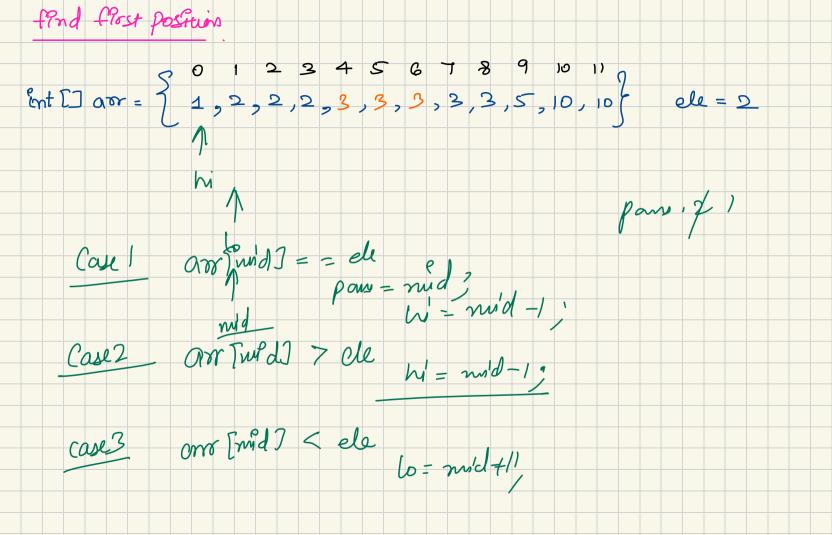
Binary Search region should be cooled X TC: 0 (100 N) SC:0() > 99% of thre BS Ques.

Scorch Ensert position / ceil value / find fut greater person 201234569 201237569 201237569dey = 2 Boute Force Le linear sourch, I voturn first pourun's inden groater than





find first and last Position of an Element Ent [] $arr = \begin{cases} 0 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 \\ 1 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 3 & 5 & 10 & 10 \end{cases}$ ele = D Boute Force - Unlar Search



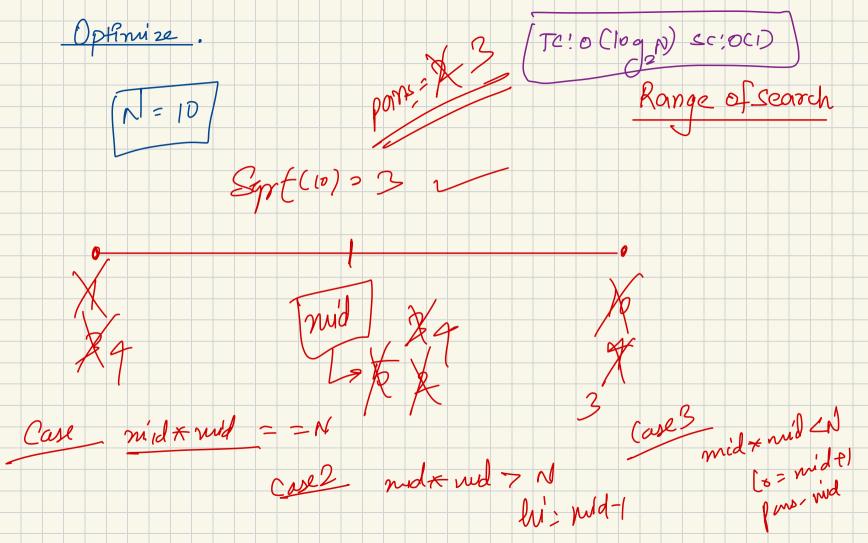
Square Root
$$N = 3G$$

$$Sqrt(N) = G$$

$$Sqrt(N) = 5$$

Boute fora for (Put ! = TCOCN) & S10(1)

Optenuse o N=6 un one = 01 [nt 1=1 ' L*C <= N) L+e aw = (' TC:0(4N) Sc:0(1) return ans



$$\frac{27}{10^6}$$
 = 10 $\frac{3}{10^2}$ $\frac{3}{10^2}$