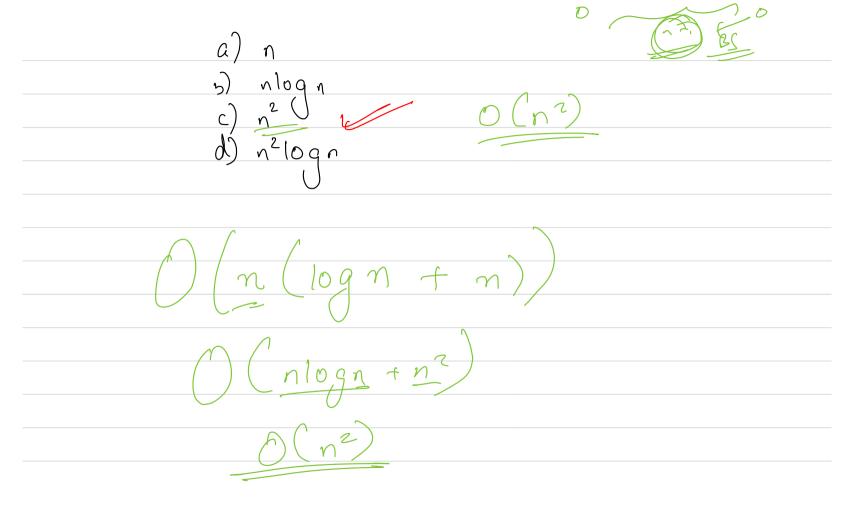
Inscrtion soot > from the unsorted region, bick any clement & Scauch Par it's best position in the scrted region & insert. Scrted region consorted syja

insertion is done usy
Swaps currently - we opply linear search softmen it by kingy search??



unscoted office Search the (or ret

Lind the first value in the list which is greater than or equal $\rightarrow [2, 3, 5, 6, 8, 10]$

Then mere is a fossibility

a [mid] can be of cannot be

the first value. possible contide $\int_{-\infty}^{\infty} a(m;d) < x$ Vielle med not left of mid

bisect library in kyrnon - to use kingy search > beset-lift(t) > the left-most possible under to insert in the list Such that list is still sorted.

> bused - right(t) -> But feet rightmost possebly linder. De Cliven an unsorted list, find any dement a (i) > a (i-i) and a (i) > a (i+i)
a (i), find any one of them a (i) Such that Phère can ke mulliple Relieu me <u>index</u> (1,7,3,1)do some thing better than O(n) ande ende

Whether we are able to divide Over Search Space into 2 parts haved on some properly a 107. 210st demut

ons is on Jose I firstelement 2 10st demen $\alpha(m)>\alpha(m+1)$ asm) < a (mai) increasing stoke decreasing nd an element vie kypen stou O(10,7.1) ~ O(109r)

