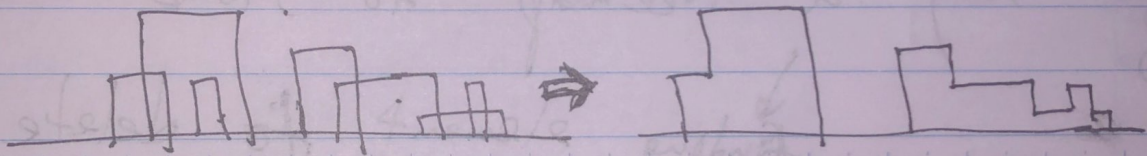
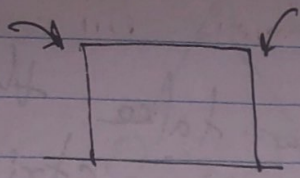


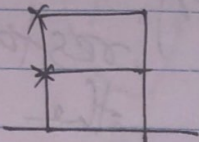
## \* The Skyline Problem





we need to track all the startings & endings of  $x$  in buildings. (with height)

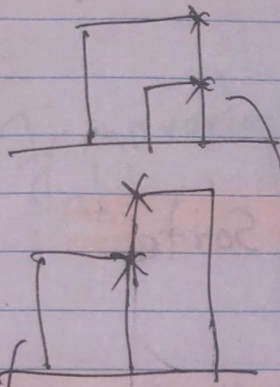
sort the list of those considering  $x$ .



create

an entry.

for those consider tallest one first. Else small one will



consider shortest one first. Else it will create an entry.

consider tallest first.

sort by  $<$  will solve this.

storing starts as  $(-)$  & sort by  $<$  will solve this.

$O(n \log n)$   
 $O(n)$   
 $O(n)$

Priority Queue to take highest value.

delete element is  $O(n)$

$O(n \log n)$   
 $O(n)$   
 $O(n)$

Using a treemap to store

finding element to delete ~~is~~ is  $O(\log n)$