Sorting: Queue reconstruction by height

given a list of tuples (h, k)

Construct a queue where

elt (h, k) => there are exactly to elements before the ch, k) with

"th!" > h

(h, k)

A A ...

if hk<h, might upset...

so unsert in dec order of inte

(en [7,0], [4,4], [7,1], [5,0], [4], [5,2]

Sort by dec order of hts

and then by no order of count

[7,0], [7,1], [5,0], [5,2], [4,4]

insert in

[7,0] q-length = 1

[1 post



(30) [70], [6,0], [7] (- 100x 100 po

[5,0], [7,0], [5,2], [6,1], [7,1] <- investing 2 gods

[5,0], [7,0], [5,2], [6,1], [4,4] [7,1] <- investing 2 gods

[5,0], [7,0], [5,2], [6,1], [4,4] [7,1] <- investing 2 gods

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[5,0], [7,0], [5,0], [5,0], [6,1], [7,4] [7,4] [7,1] <- investing 2 gods

[5,0], [7

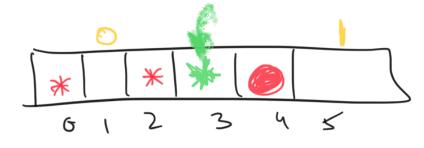
Insert of inserting in Let

shortest person \rightarrow is [4,4) has to be

1 4th pos. - [0] [2] [3] [3] [4] [4] [4] [5] [4] [5]



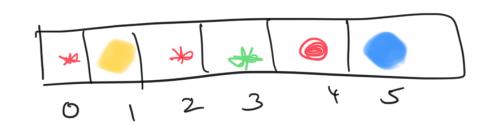
hext -> [6,]



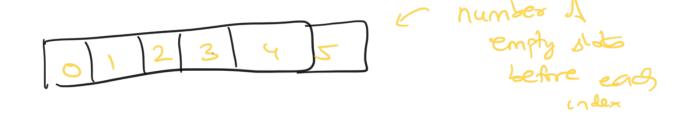
next ->

[2, F]

T7,77



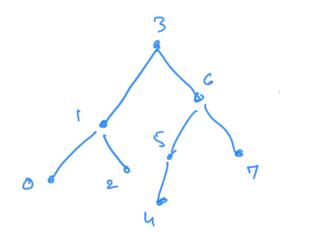
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in seat [h,k] at the index which has empty sot =k

for each position > pos, decrement empty state by 1.

Can use height-belanced trees to make insert operations logarithmic time.



1 insert after 5 & before 6

3 7 8