

Time \( o \( n + bricks + ladders \) 5 0 (105 × 109 × 106) S.(- 5 0 (n \* bricks \* laddord)

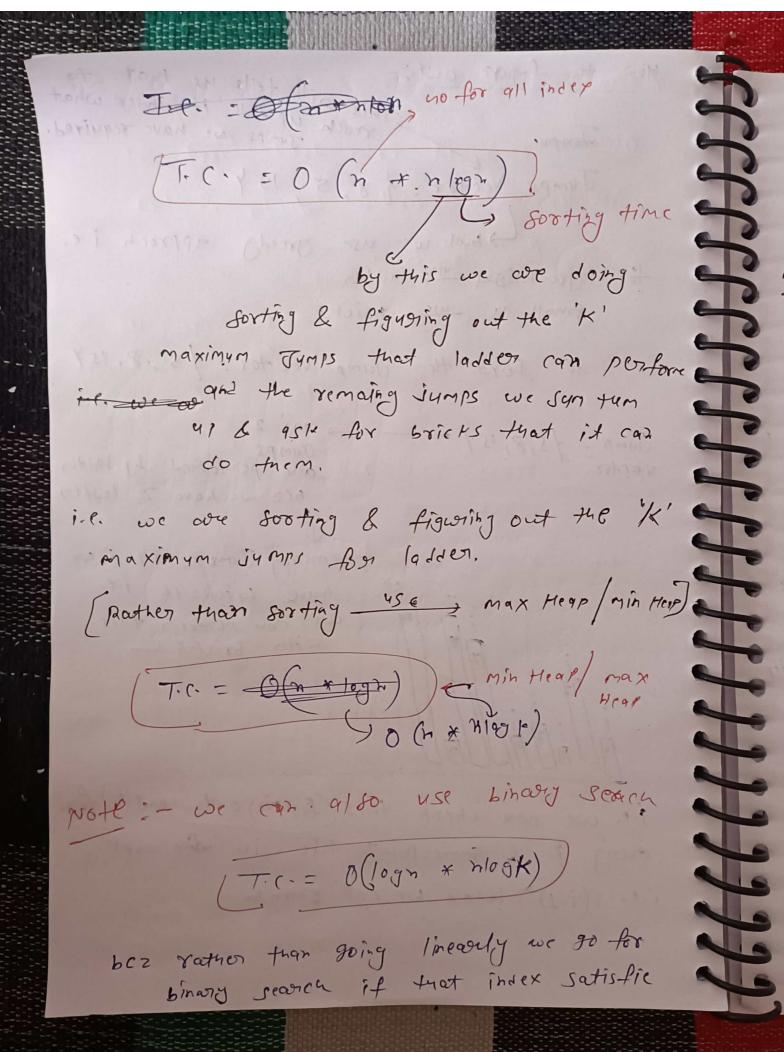
0 (105 \* 105 \* 10') How to remove MLE: - To optime & MLE we can may be use stoing & string concatination with unordered map like String - " # bricks # ladder," = key But it can also gire us MLE NOTE: We can apply D' but it will give 95 TLF or MLS athis is the similar problem to the 871. Minimum Number of Refyeling Stops

DP wreed of Gred (Min Heap/Nox Hear)

Approch -- 2 Salsengs de domaine Own approch is like that first we will use the entire bricks & then ve go for laddos. ibcz -from bricks we can go 4P to a limities height but from ladder we can go at any height. Note: This will not work for any Case heights -> [1,5, 1,2,3,4, 1000] bricks = 4, 1920=L gn5=3

Correct 912 prich of approch 21 -A for larger Jumps — 45e , ladder of for smaller Jumps use , bricks out of but it? height: - [4,12,2,7,3,18,20,3,19) bricks= 10 laddens = 2 at i=5 intex & MOD Tet's say we doe out that can we we have to figure index or nod. Heach and frat

This will tells us that to this we have required. Jumps Vector = 18, 5, 154 Libert we use greedy approch i-e. for lagre height usen ladden Small 11 use bricks So fort the Jump vector: 15,8,154 Max 2 Jump = 15,8,157 -JUMPS one performed by ladder vector BCZ we have 2 ladder remains Jums = 454 & we have brick=10 1.e. we can perform this with srichs L i.e. we con check this (figuring out condit) for every i & some point this will do oork i.l. (i-1)th index we can reach



the condit of figuring out them we go for for right building else we go for or left buildings.

Approch.3 (n logh)

-) maintain g the creedy behaviour but use that behaviour in emergency:

bcz in Linear search are are checking greedy behaviour for 'n' places & for binary search we are checking greedy behaviour for 'logn' places.

any in emergency,

have Jumps more than laddens.

ex-) you have to do Jumps more tran
ladder like ladder = 2 but you have
Jumps '3' i.e. this 3rd Jump. Broudd
perfore 57 bricks.

h=[4,12,2,7,3,18,20,3,13] bricks=10 ladden=2 telle shore we can use priority que )-150th Lave B some inscrtion Myltisct deletion complexity Mirebeal we use ds which will return minimym elevend. -) ladden Size= 2. & Min heap Size=2 I-l. We can do trose jump by 19200. (8,15,5) -> 8ize > ladder i.e. grab out the minimum Jumpes & perform that Jamp

bricks. brick -= minheap. pop(); bricks=5 bricks = 5-2 8,15,2 571ck = 3-8 = 5 8,15,19 min = 8 Strick 10 - return -1 I we can also we max heap but we have to modific according that. ei sta ( mymbors of T. C. = O(n log F) 1922000 5-c. = 0 (F) ) O(n K 109 m) = 0 (n2/agh)  $O(n^3)$ Detter (Brute force) (orocedy) Brute Are) 0(n/092n) ( Better Bihazy season) 0 (n 100m) (optimal) minhear