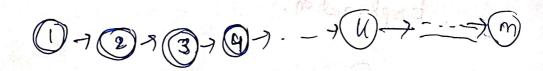
toplanation.
penmutation -> [101203145 m]
queries => [-11, 1/2, 1/3, c/4,
attares.
Jives When queries [i] comes to us, un con seaset house to
tell the position, where it is in the permutation order
And then we have to move that in front of the pennututi
(Hoporgy) rodice
aury (u) [2 3 4 (-1) - m
Si Win 940 and 10 10 miles with a wind with a wind
(u 12 3 4 5 m)
hiven the constraints m < 103 and
grenies & m. 1 Emplate the whole princers of
French on we store the penmutation in for agiven & just master the penmutation in
a Linkedlist



Then we for search just travel the Cinked List, more the it to the great of the Cinked Cost Basic linked, operation.

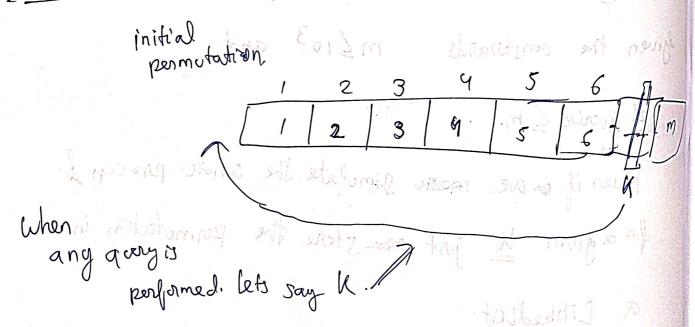
mxm => 0 (m²)-

Better Approach)

Use BIT tree, using bit tree are will be able to take where in the vise faster queries.

War 12 Ball Strain Land

Intuition



tels say total number of querky = q.
Some know of time any number will come to the
Mont. (who ale relmon) gondant a ren live see bout
Sent to disch Kocaston U vire xomet all
777777 -m
(series)
So we create a BIT tree of size [9,4m+1]
to the cored indexing (1) to) stobay suffice
0 1 2 3 4 5 6 7 8:20 9+1 9+2 9+m. 1 2 3
Then soit grants gentloned rotated = 9 (Here in element) aill be stored)
For each query operation we can more the element.
(9+1-i) the position of the query 10 1 2 3 9 9 9 9 9 9 9 9
(9 N) going (2nd query) in quit to

Instead of storing the actual numbers in the arranged BIT trèe une cull Store Lond O. And are will have a Hashmap (Number -> Location) to denote which bocation is the element at. for (inti=1; i <=m; 2it+)} making updates and Stering in the Giffue copdate (q+i,1); range fashin that I Stores. hmap (i > 9+i) =) updating the position. P => [Pointer denoting where the rest entry should get. > part when a query comes. -> (K) to each query openion Step 1 - Get the location from map. Updating " loc = hmap[K] Step27 freethat repdate (loc, -1). update (P, +1) Step3 -> pot this new thing on > at the pth index hmap (K, p)

Interesting part comes, on how to new tell it's location.

my thought >

Am thinking. Since in MasHmap we have

its location. loc = hmap.get(k).

(, Now this loc is the of the BET true new AMony that we formed.

we have to find the relative index. The one which it has in the modified permutation.

option 17 som (loc) > fells me exactly how many ti's one there from (1 to Loc) that should be the position of K.

option 2 -)