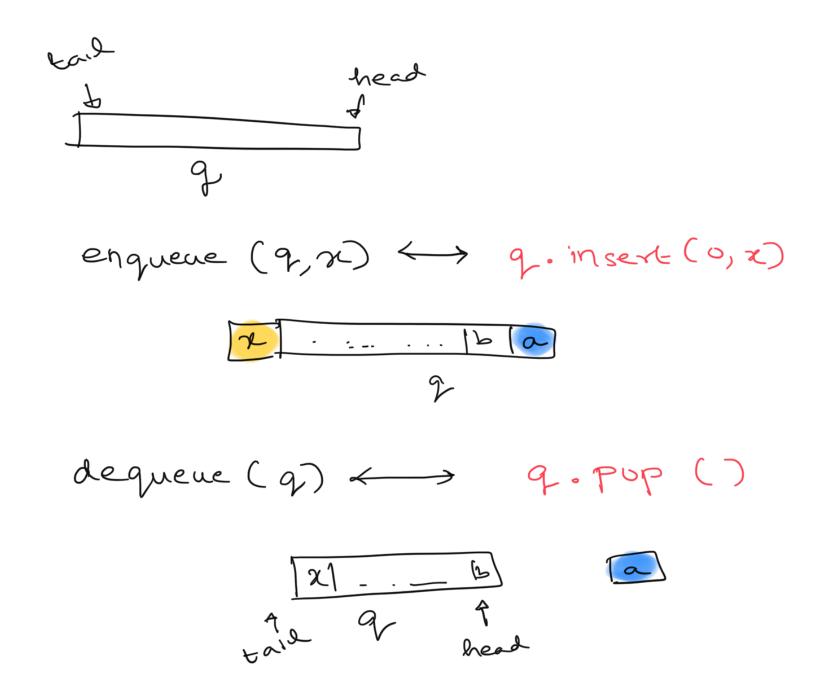
Queues
what is It?
First in , first out
verde a la l
~ [a] b]. [. ] 2 ] re
(16) [2] dequeue(q,)
( [b] (l) dequeue(q)
reburns a
Implementation  saile  area  of a list  and of list
List List
list has an insent-method

l. Insert (j,x) inserts x before Position j

So l. insert (0,2) inserts on beg. of



Used for

- Systematic backtracking (bfs...)

Example: Giving chess board dim,
start pos. of a "knight".

target pos

test if knight can board from start to target.

M marked method: queue maintain or not A posibons to explose I initeally chess board array M < all positions on chees board unnarked. except start To dequeue (Q) ~ "pos'' look at all posibons which are unmarked and reachable by 1 knight move, and enqueue them mark them also in M **(b)** 

Repeat step II till you reach target ( Q empty...

BFS

each square is a node.

Connect 2 modes by ledge

can be reached by I Enight's move

who grouph

on do bits from start page to see if

target reachable.