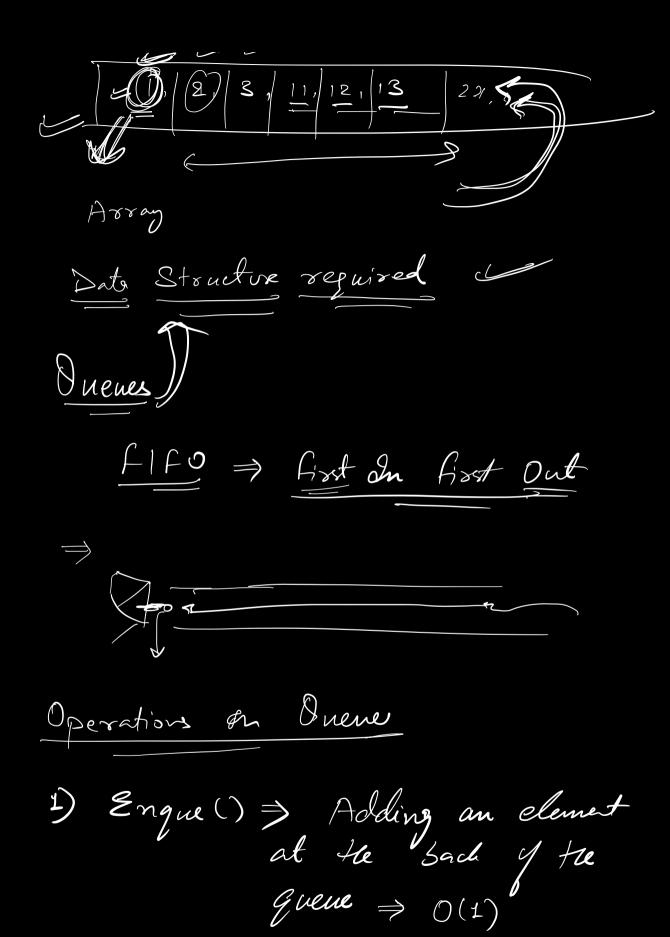
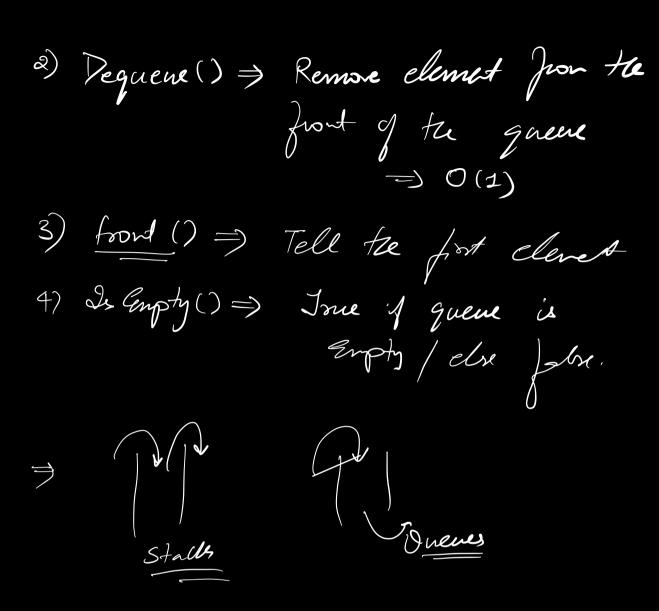
K => duteger. Given

Generate first (K) numbers using digits 1,2 \ 3 K = 00, 0, 3, 11, 12, 13, 21, 22, 23, 311/2/3 (1, 2, 3)2, 3, (1), 12, 13, 21,22,23,31,32,32 111,112,113



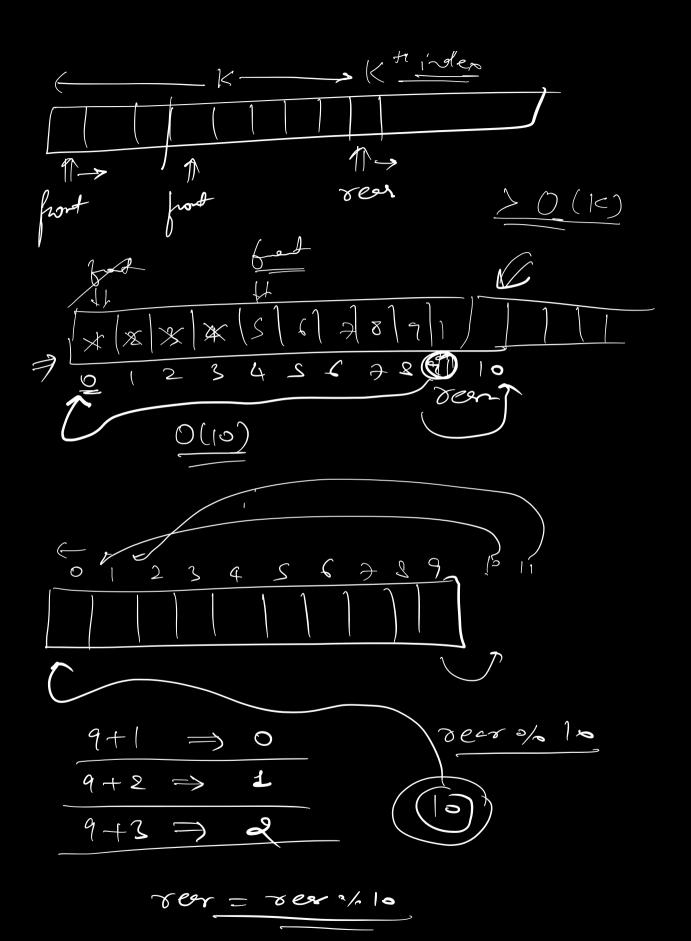


Implementation of Queue 1) Using Array 772 (6) 9 1 Auset (Engueure) & Dequeve (); of reor ++

arr [reor] = ralue; front ++; 1) fixed Size 2) Memory wasted

Size of the game is fixed.

,



Circular Duene seey serc 35 to check if the => Conditions Julue is Jull. (i) if (fwt = 0 ls rer = n-1)(ii) $\frac{1}{4}$ (rear = $\frac{1}{4}$)

3 hinhed hist Pointo (0) mem of next Ju (hed

Stacks	Duenen
) LIFO	i) AFO
2) ansetion & deletion happens on the same side i.e top	2) ansertion & deliters takes place form opposite ests

Erquere) dequere # Implement Queue DS using Stacks
(Push (Pop) > Enque / Dequeux Stad 1

1) $\xi 20$ 2) $\xi 30$ 3) $\xi 40$ 3) Equive \Rightarrow S2. pop()
6) $\xi 30$ 3) $\xi 40$ 4) Dequive \Rightarrow S2. pop()
7) $\xi 30$

SI. push_back (alenet) 1) Engreul => 2) Dequene => (i) if (|S2. is Empty()) d retur se. popco; else if (!sj. is Empty()) of while (| SI is Empty ()) of \$ S2. push_back (S1. pp()); x etum S2.pp()',

12 motified

T.C. > O(1)

Generate Just & Diver numbers

LIFO

Queue Implementation

Stads

Stads

Suguene > 0(1)

Dequeue O(1)

Suplement = Stade

Porh => Engueue > 0(1)

Port => Engueue > 0(1)

Port => Engueue >> 0(1)

Port => Engue

Deque Double Ended Quenes 0(2) rem Stade