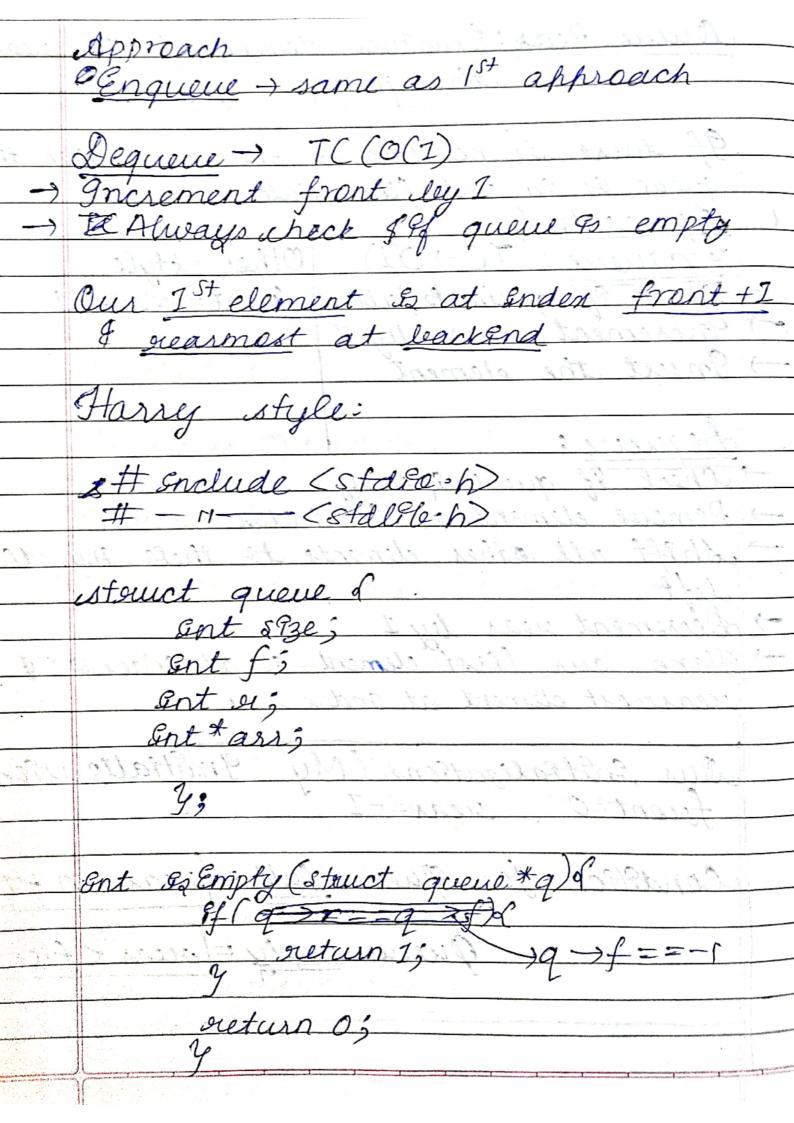
	Page()
	Dueue
	January Control of the Control of th
100	a rife italietuse
	Jueur & a FIFO data stoucture
	EDOUNTER
	Enquew G COONTER
	**
	The state of the s
	Dequeue V
	In 10 282 total one englished
	For queues we need to positions, one spointing
	at the Insertion end of other at
	deletion end
	Methods:
1)	Enqueue (): to ensest an element
	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
2)	Dequeue (): to ocemoire an element.
	vegocor processor of an analysis of the second
2)	for it is 100: to nature the malere at foret part
	ffrstval(): to return the value at first pos?
(2)	1 - 1 - 1 - 1 - 1 - 1 - 1
7)	lastval(): to seturn the value at last
	pos
_5)	peek (posifion): to return the value at
	some specifie position.
É	Is Empty O/FaFall (): to check whether queue Is empty or not.
	Es empt, or not.
	of emply or run
	9-10/2 - 100 - DA
	9 mpsementation: DAnrays 2) stacks 3 Linked Lests
	2) Stacks 3) Linked Lests

Dueue Front: Enamines the dement at the
front of queue
Queue Reax: Examines element at the seas of
the queue.
If there is no dota in the queue, then the
queue et en underflow state
edpproach 1
Enqueue: T(-> O(1) Other style
There of give & full front = rear = -1
Increment sear by I Insert the element
Just the series
Dequeue:
There If queue & empty
Remove element at 0th Index
Shift all other elements to their immediate
left.
Decrement near ley 1
Here our frest element is at index # 0\$
reasmost element at snder reas
111 01-810-12-10-1
Mus enflatigations: My grantfallsation!
Du Inffaligations: (My graftfaligation). fount=0 reas=-I
forent=0 reas=-I Condition for queue full = [reas== n-1]
Condition for queue full = [reax== n-1]
Condition for queue full = [reax== n-1]



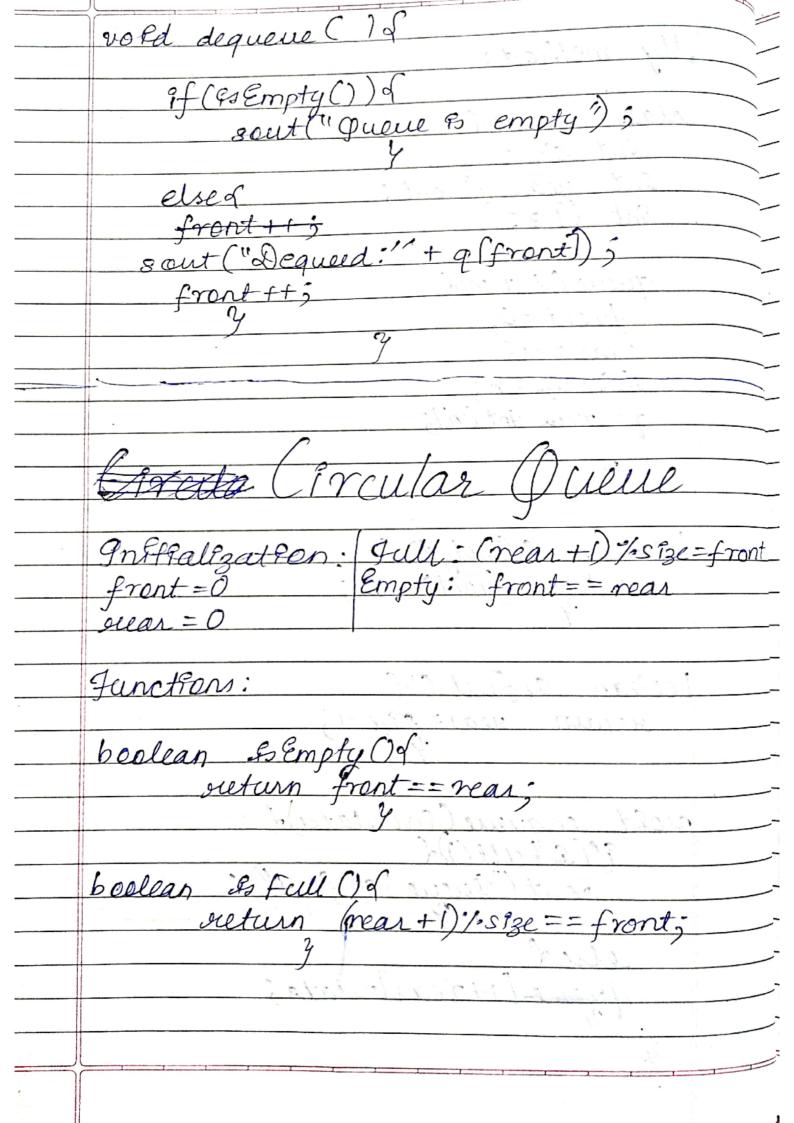
ent sq full (stouch queue q) \mathcal{L} if $(q \rightarrow r = q \rightarrow size - DS)$ ocetur 05 vold enqueue (stouct queue*q, 9nt val) &

St (safull (q)) &

pf ("The queue & full n"); Ent a=-1; Sf(Sa Empty(q)) \(\)
pf("Thea queue so empty\n");
\(\) elsed $a=q\rightarrow arr(q\rightarrow f];$ $q\rightarrow f++;$ x [9 > f]; 9f (fg -)f > q -> r) $q \rightarrow f = q \rightarrow \gamma = -15$

	Int main ()d
	estouct queue q; q. size = 4;
	9. 182e = 4;
	a -f
	q.f=q.r==0;
	q·air= (9nt*) mallec(q·size*size of (9nt));
nation to	Market organic Cational supports the said
	- Comercial Decommendation
	. L'ashin queux to huter !
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	- zta Dit
7)-	ten in the real of
	alice treedometo
Jests:	Sp. (95 Empty (&q)) d. pf ("gulue 92 empty");
	ef ("Pulue & empty");
0/p:	Queue & empty
	Soft dodoene Cotoniot grows to old a
	Est or To
Jests:	enqueue (&q, 12);
	-11-(-11-215); b((2), A, a, 2), 12;
	all or grane a more partirly
6/p:	Enqued element: 12
	THE CHARLEST IS AND A SOUTH OF THE STATE OF
	1000
Testo:	pf "Dequerng element / d/n", dequeue(89)}
	11 - 11
0/p:	Dequeling element 12
	15

	My method:
	p. C. Association
	class queued
	Int size;
	ent rear, front;
	9nt 179;
	Change of the Marine Carlotte
	queue (Int n) 6
	front=0;
	ocear = -15
and the second	this see n;
	q = new ant [n];
	212 (1901/12) (1/12/21)
	boolean & Empty Of.
`	return front > rear;
	4
	boolean es full Ox
	boolean & full () of netur rear = s rze-1;
	4 Destanta
	and the state of t
	rold enqueue (ent data) of ent ("queue & feell");
	If (Sa Full ()) of
	oeut ("Jueue & full");
	The same of the sa
	elsed
	que [++rear]= data;
	2. 4



vold Dequeue Od Sout ("Underflow"); t("Dequeued:" 3+ aus (front +1) %-size]; front = (front +1) % size; Enqueue (Int element) eout ("Overflow"); sout ("Enquered": + element);