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> Aim. Queues are frequently used in computer programming and atypical en is the execution of a job quoue by an operating system. If the operating system does not ruse priorities, then the job are processed in the order they enter the system. Write C++ program for simulating job queue. Write functions to add job a delete job from queve.

Pre-requisite:

Basis of Queue Different operations that can be performed on queue

Objective:

To perform addition & deletion operations on queue.

Size of & queue element in queue

Outcome:

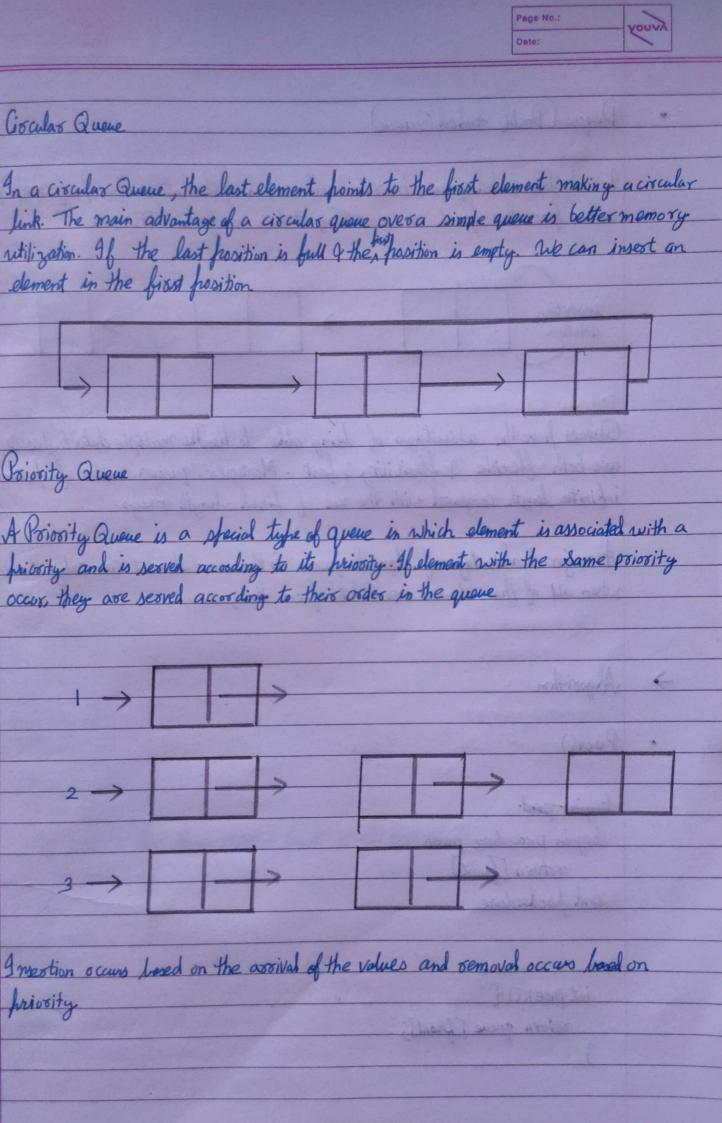
Result of addition of job operation on quare Result of deletion of job operation on queue

> Theory

Queue

Queue is an abstract data structure, similar to stacks. Unlike stacks, a queue is open at both its ends. One end is always used to insert data & the other is used to semove data. Queue follows First in First Out methodology, i.e. the data item stored first will be accessed first.

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	As in stacks, a queue can also be implemented using Array, Linked-list, Pointer
	stouctures.
1	add to the same of
•	Basic Operations
	enqueue() - Add (store) an items to the queue.
	dequeue() - remove (acces) an items from the queue
	peek() - gets the element at the front
	isfull) - Checks if the quove is full.
	isempty() - Checks if the queue is empty.
	William the car be selected and the selection of the sele
	Types of Queue
	The of govern
	There are 4 different types of Queue
1	Simple Queue
	Goular Queue
.3	Priority Queue  Double Ended Queue
4	Pouble Ended Queue
	0
•	Simple Queue
	4 9: 10 - : +116 1 11 1
	In a Simple Queue, inserted takes places at the seas & semoval occurs at the four
	it stoidly follows FIFO rule.
	Front read
	deletion insertion
	Mars work
	Laboratory to the state of the



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· Priority Queue

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dement in the first position

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	Deque (Double Ended Queue)		1
	In adouble ended queue, insertion and removal of elements can be	performed	from
	either from the front or rear. Thus, it does not follow FIFO or	ule.	
			-
		T	line
	insertion deletion >		dela
	describe.		V
	Queues have the advantages of being able to handle multiple	data types Q	they
	Queues have the advantages of being able to handle multiple are both flexible & flexibility & fast. Moreover, queues can infinite length compared with the use of final-length arrays.	be of poter	ntialty
	infinite length compared with the use of fined - length arrays-	Y	
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spirit.	A major disadvantage of danical quoue is the anew element con when oy of the element are deleted from the queue.	in only be	insorte
	when oy of the element are deleted from the queve.	1000 1000	
4	Algorithm		
	VI GOVING		
	Peck()		
	begin pred.		
	begain procedure peek return [front]		
	return (front)		
	end producedure		
	$e_{n}$		
	int peek() of		
	return queue [front];		
	3		
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Isfull ()		
	The state of the s	
begin produce isfull	(mic ( )	
if rear equals to MAXSIZE		
return true	deline Ede	
else		
vetvon False		
endif		
end procedure	English Charling	
lm>	Given mention to ada factor	
bool is full Of	Confession difficult to invious	
if (Sear = = MAX SIZE -1)		
return tome;	Howare may help	
else		
return False;	The freeze to full	
3	Omnion	
1 11 ()		
Asempty ()	At he Tours from	
1.	A LO LA PARTICIO DE LA PARTICIO DEL PARTICIO DE LA PARTICIO DEL PARTICIO DE LA PARTICIO DEL PARTICIO DE LA PARTICIO DE LA PARTICIO DE LA PARTICIO DEL PARTICIO DE LA PARTICIO DEL PARTICIO DEL PARTICIO DE LA PARTICIO DE LA PARTICIO DE LA PARTICIO DE LA PARTICIO DEL PARTICIO DEL PARTICIO DE LA PARTICIO DEL PAR	
begin	i make	
Al Fact is low than MIN or bront	is greater than rear	
return true		
else		
Tetvon False		
endif	Marilla Maria	
end.		

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bool isempty () {
if (front < 0 | 1 Front > rear) setvon true; return False; Enqueue Operation Queues maintain two data prointers, front 4 reas. Therefore, its operator are comparatively difficult to implement than that of stacks Procedure enque (data) If greve is full returno; Tear = rear + ) quere[seus]=data octum!; end procedure Dequeue Produce dequene

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	int dequeue () {			
	4h (isemptyD)			1
	4f (isempty)) vetvon underflow			
	end if			
	and sq			
	data = duano (Conf).			
	data = queue [Foort];  Fortal front = front +1;			
	10 min front - front +1)			
	Jetvon toue			
	end.			
	ena.			