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Write a c++ program to implement queue.

Objective:

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To add elements from rear and of Queue.

To delete elements from front end of Queue.

Problem Statement:

Pizza parlog accepting maximum Monders. Orders are served in first come first served basis. Order once placed cannot be concelled. Write C++ program to simulate the system using circular queue using array.

Theory and Concepts:

Double Ended Queue: The word dequeue is a short form of

double ended queue.

It is representation of both stack and queue and can be used as stack and queue. In a deque, insertion as well as deletion can be carried out either at the rear end on the front end. Dequeue can be classified into two types:

A) Input Restricted Deque.

The following operation are possible is an input restricted dequeue;

1) Insertion of an element at the gear end

- o) Deletion of an element from front end
- 3) Deletion of an element from rear end

B) Output Restricted Dequeue.

The following operation are possible is an output





nestricted dequeue.

- 1) Deletion of an element from front end
- 2) Inscalition of an element at again end
- 3) Insertion of an element at the front end

there are various methods to implement a deque.

- a) Using a cincular array
- b) using a singly linked list
 c) usingly a singly circular linked list
 d) using a doubly linked list
- e) using a doubly circular linked list.

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Algorithm:Step 1:- Start

steps:- Declare integer amay, integer front rear.

steps:- Declare integer data.ch.

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slep 4:- Accept inleger array From user

Slep 6:- call Function adda

step7:- call function dolf

slep 8:- call function dela

slep 9:- call function Point " marin to 1-

slep 10: Slop.



Flowchart:-	Blant
	Declare integer. Array
	on []. ipteger front.rear
	Declare integer data ch
	Accept integer array ora []
	call Function adda.
	call function add f
	call function del F
	call tupction dela
	call Eunction paint
	Slop.

Conclusion:By using above code we successfully implemented CIRCULAR Gueur.