## Assignment 13

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Problem Statement Doubly ended queue (dequeue)

1's a linear list in which

addition and deletion may be made

at either end obtain a data representation mapping a dequeue into 10 array
with a function to add or delete

element from either end of dequeue.

Objective!

- To understant concept and impliment of doubly ended queue.

- To understand addition and deletion operation for queue.

Obstant will be able to do

Oimpliment dequeue does otructure

using 10 array.

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SIM and HIM requirements!Edipse IDE, Mindows 10 05
64 bit system, intel is processor.

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Theory!or queue data expecture that allow insertion to deletion at both ende. - Insection in Front! add an item to Front of dequeue - insert in last in add an item to rear of decircle . Delete Front. Delete F185+ item of dequeue. - Delete rear. Delete rear clement OF dequeux Algorithm?.

Others def 5 irt data [30]; \$ 1 mg 20012, from; class queue § papisc; queue O; int empty co 1777 Fall () Nois ende (145); roid ent (jusse). Ind dates;

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roid paint(); Algoophm! Void engrant key) if deopue is full then print ("queen is fult") it opersont=-1 then diftent=0 diseaseo. clae if a front = 0 thensel a front = size-1 4. else Pront -=1 CITT [FOOM] = Key Void engr (in key) IF dequeux is full thenprott ("queue is ful") (1) If Front = - 1 then initialize Front & near to 0. else if rear=osize-1 set rearoud too aro Brearo] = Keef. Complexeltal -0(1) inscrition Front. 000 insportion regio deletton front 0011 deletion record lest cases result. QC 0/P expolp

GUCTESSFOLY OU TO FLUIU 0 10600+ FOON-1 inserted meented =10

NO

deps.

surpruly oeleted Successfully Delete FROM

queuris queocos empter empty (3) point. Conclusion! Eurocessfully emplimented double ended queue no cott colth menu dratyen progra (1000 Mis 6.000) I amount the goals untol manigh in the elimited and the terror ? 15 1-2010 0000 H