

Queue la Friday
The reconstruction of the second of the seco
A gueuelli is and porganisation which
stestficts the entry and exit
from to opposite points such
as organisation is required for
The uniform distribution of a
limited resource that has to
be shared by multiple wer.
when wer stone a list of
data items in the memory.
We can't make la constraints
to the 27724 On lisked
list that the new ritems
can be inserted from a
certain point called as the
Hearing Queue while an item
can be deleted from an
another points called as
front of the Queue.
first when we
insert an a item in a queuc
both the rear and fronts
are set a similar points.
As soon as a new items
are insuited the rear bronup
and the front remains same.
Since the item is deleted
from the front position it

would be the litem inserted first for this Meason the Queue also called FIFO list (first in first out). life there are so many West uses of Queue & Queue is organised in front of the ficket windows, at the the bus Stop, in the doctor Cabin and soon. In the computer's memory we may get so many queus oxiganised to share the resources. The Os utself organises multiple queue in its buffer and in the memory to perform multi--tasking in a smooth way.

Some example of such queue are job Queue, deady queue, wait queue, I/o Queue, etc. Operation on the queue The Queue can be Sorted both 25 an array and Jour operations are performed on a Queue:-



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or some primitive as I
and I have integer war (20)
to indicate the great and
front to of the the Queue. We
rean ratake. Athem individually or
we meatie up them ma
structure The walgonithm is given
The Brelow Site Interior
and the state of t
Step-4.3 TE Start (reation)
Step-20:- Definer structure with member
Step-22.
step-3:- Declare Mariable Q of
Queue type
step-4:- / let R- of 1 0 = -1
3+ep-9:- let f. of Q=-1.
slep-6:- end.

EN Queue
The insert operation to a que
as called as EN Queue. In the
array based Queue, we can
Inscried a maximum of item
2s the size of array The
Therefore are to perform the
Ma operation at first we need
do check either the Queue
es full or not
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That after frequent
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ally many many
1 O M O D H O L O D
TUP AND
element are present behind the

arrive at its maximum white the front is present after ageno that means the vacant element are present behind the front. In such situation we need to pull down the data item to pull alown the data item the vacaney at rear side and assign the value to the given below:



Stepli- Start enqueue (v) Step 2: - If f of cg = 0 And Rof g=n-1 2 A:- Printfi Queue is full' 213: - Returns Step3: - If R of Q= - 1 then 3.A: - let R of Q=0 3.13:= Let. F of 9:00 11 000 Slep4:- Else if Q.F > 0 land Q:R=n-1 Then 4.A:- For î = Q.F To Q.R 4.B:= let Q. val [i- g.f]= g. val [i] 4.c. End for 4.D.F. let g.R = g.R - g.F 4. Entitlet Q. Fizzo -Step5: - PAISE S.A: - let Q.R = - Q.R+1 Step6: - end of if Stepa: - let Qual [Q.R]=V Step8: - Return) E Queue The delete operation from a queue is called as de queue. A value can be deleted only from the front position of the queue. To perform the DQ operation 1st we need to check

that either there is any value



in the guerre on not. The next
condition we need to check
that if there is a single value
in the greve then it would
- be empty after deleting that
value. Then effer we incr-
- rease the trant OF Building
to assume the deletion of
- Value. The algorithm is given
- below:-
Step 1: - Start dequeux
Step 2:- Declare variable v
$O^+(I) \otimes I^- = I$
3.A:- Print Queue às empty. 3.B:- return 0
Step 4' = return 0
STEP 7 End of
Steps: - let vz gival [gif]
3+ep6:- 3f Q.f = Q.R +ha
6.A:- 11 000
C.D.C.
Step 7:- else
7.Ac= 11.
Step 8:- end
Stepgs- Retwin V.
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Traversal of
Of Queue
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Before traversing the Quie
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Should need to check that it
front and going upto the great of the state of see queue The
glear of viole During Opto the
Step-1: - Start Wall
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mint Queue
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- 5 te piskit end of the
Step 9: 7 16 for 20 G. F to Q.R.
Step Sintf Q, Vall fiel
Step 6: 51 51 1 Retwo
Circular Queue mission
the second of th
Since value can be inserted
only from the stear point, if
there are frequent insert and
delete from 2 linear Queue
it is suffered with a prob-
-lem that the wacant element
steside behind the front and
to set the dear at appropri-
- ale Dosition we need to pull
down the value, which may take

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Queue is not full we assign the Hear with Hemainder of to september 1 which set appropriate position. Algorithm of Enguene Step 1 :- Start enqueue (v) Step 2 = + f Q:f= 0 and Q.R=n-1 then 2 A: = Print Queue is full 20Be- Return with 0 Step 3: - end of 1f Step 4: - If O.R = It then YOA: Let QIR = 0 4.BE= let Q.RF=0 Steps: - selse if g. F->0 and g. R=n-1 then and size of 15.A:-18 Let - 8.R=0-Step 6 : -d else C. G.A :- let B.R = G.R +1 Step7: - end of If Step 8: - let gival [Q.R]=VII Step 9: - Return DEQueue from circular gueue The dequeire operation from the circular Queue in started by checking the Queue that

either it has value on not. Then after it is checked that either there is a single value it if both the front and steam over assigned with -1. Otherwise according to the position of front either it is a inextensed by one one on assigned with zow If it is present at the n-1 position. The algorithm is given below:-Step 1: - Start dequeux () Step 2: - Declare variable V Step 3: - . sf g.f = -1 then B.A:- Print Queue is empty 3.B:- Return with 0 Stepy: - 1 let V.z QNal(Q.F) step 5:- If Q.F=Q.R then S.A: - let - Cg.F = -1 5.B:- Q.R = -1 3 tep 6: - If Q, F= n-1 then 6. A :- let (8.F = 0 Step 7: - else Step 8: 7.A: - let Q.F=Q.F.+1 Step 8:- end of if.

Step 9:- end of if.

Step 10:- Retwin V.



Linked based gueur

As we know an array is a static structure which ilimits the mo of items to be so stored. As well as it may cause misuse of memory. To op overcomp there these drawbacks of array, we prefer to store. Queue is a collection of modes with two pointers mamed spear and front. The spear tracks the address of the mode to which the new mode would be affached while the front tracks the address of the mode which would be deleted.

Cycation of linked Queue

Do create a dinked list based Queue of rest we need to define the structure of node. After then an another structure Is defined with two pointer Members of pode type to steppesent the steam and front of

The second secon
the Queue The algorithmas given below :=
given below :-
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Stepli- Start create
CLA2'- Define a structure
with the mervioles var and
pointer link of node type.
Step 3: - Define an another structure
with two pointer of node
type stear and front named
type rear and front named
Step 4: - De clare: 2 variable Q of
structure type:
3tep5: - Let Q.R = Null then
Step 6: - Let Q.F. = Null
Step 7: - end.
En Queue to linked Queue
Correction and the state of the
Jo enqueue a value to a
linked queue presidentes.
memory to a node type point
-ten Accion type poll-
with the given value part linked part with null. After that we check the
linked part with with and the
that we check him After
Queue that if the
Queue is empty then both
the Hear and front are address of
The address of





new moder otherwise The linked
part of seems and linked
part of rear mode and the
Ation in prize and are and with
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Stepul: - Start enquare
Stepul - Clast and
Silagi Colque ue
Step 201 - Declare pointer ptrofnode
Step 3:= Call and a land
AUOCATE MEMORY to DIY.
Step 4 and Metaval [Ptr] = V
Steps: - let link of ptrainul.
Step 6: - If year of co = Null then
GA:-let Hear Of Cg=:Ptr
6 Bittlet front of g = ptr
step7: -delsevante
80017.A: Hetalink of mean = Ptr
H. B. T. Il etalist de la
Step8: End of Af
Step 9:17 Retwo
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