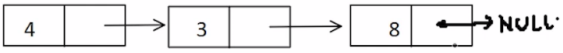
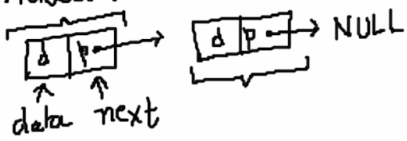
# Queue Using Linked Lists




Linked list is like a chain




45 new Queue Using Linked Lists.mp4 - VLC media player

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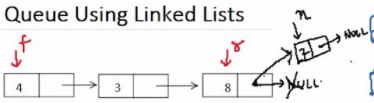
## Queue Using Linked Lists




Queue Basics

Queue

f (Deletion end)

r (Insertion end)

```
Void enqueue (N *f, N *r, int val)
{
  N *n = (N *) malloc(sizeof(N));
  if(n==NULL)
      print("Queue full");
  else {
      n->data = val;
      n->next = NULL;
      if(f==NULL) {
          f=r=n;
      }
      else {
          r->next = n;
          r = n;
      }
  }
```


Special case! :D

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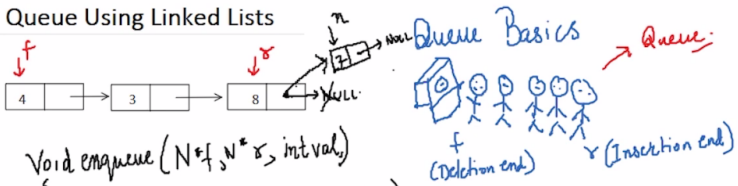
## Queue Using Linked Lists







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      }
  }
```


Special case!


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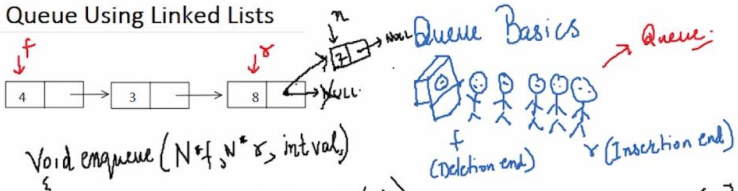






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      }
      else {
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          r = n;
      }
  }
```

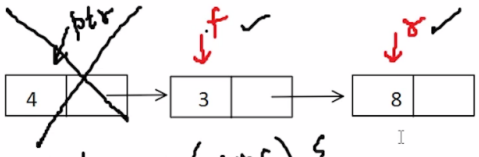



Special case!


[A] Condition for Queue Empty
i) f == NULL

[B] Condition for Queue full
i) n == NULL

# Queue Using Linked Lists




```
int dequeue (N *f) {
    int val = -1;
    N * ptr = f;
    //check for Queue Empty
    [ f = f -> next;
      val = ptr -> data;
      free(ptr);
    ]  -> If not at Empty
    return val;
```

## Queue Basics

Queue:

f (deletion end)

r (Insertion end)