An Algorithm that will count number of nodes of singly linked list.

Sunday, August 9, 2020 11:43 PM

```
Countnode(start)
   If start =null
     Print "list is empty"
      Exit
End if
Ptr<-start
C<-0
Repeat
      C<-c+1
      Ptr<- link->ptr
      If ptr=null
          Exit
     End if
   End repeat
  Print C
End
```

Start is the adress of first node of singly linked list here it is 200.

Two conditions must be applies one at the beginning and one at the end.

1. If start = null then print "list is empty".
2. If ptr = null then exit.

Table below represents dry run of the given algorithm.

COUNT	Ptr
0	200
1	100
2	400
3	500
4	N

So, here we have total 4 NODES as seen in the diagram.