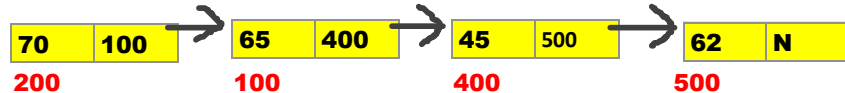


An Algorithm that will count number of nodes of singly linked list.

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 address of first node of singly linked list here it is **200**.

Two conditions must be applied 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.