

Number of even and odd Nodes

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Algorithm to count number of Odd nodes and
Number of even nodes in given singly linked list

OddEvenCount(start)

If start = NULL

print "List is empty"

Exit

End if

evenCount <- 0

oddCount <- 0

ptr <- start

Repeat

If (data->ptr)%2=0

evenCount <- evenCount + 1

End If

Else

oddCount <- oddCount + 1

End Else

ptr <- link -> ptr

If ptr = NULL

Exit

End if

End Repeat

print number of even nodes

Print evenCount

print number of odd Nodes

print oddCount

End

15	215
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200
(=start)

12	415
----	-----

215

13	300
----	-----

415

21	NULL
----	------

300

ptr	data->ptr	evenCount	oddCount
200	15	0	0
200	15	0	1
215	12	1	1
415	13	1	2
300	21	1	3