**Linked List problems (Singly Linked list):**

1. [Link list Insertion, Deletion, Display.](https://github.com/Deshraj5268/datastructure/blob/master/src/linkedlistproblem/LinkedListOpd.java)
2. Reverse a linked list (Iterative and recursive).
3. Reverse the block (K-node) of nodes of a list.
4. Find the middle node of a linked list.
5. Check linked list is palindrome or not.
6. Find Nth node from the end of a list.
7. Find the intersection point in two linked list (Y).
8. Loop detection in the list, loop length, remove loop.
9. Clone a linked list with next and random pointer.
10. Implement stack and queue using linked list.

Loop detection : <https://stackoverflow.com/questions/3952805/proof-of-detecting-the-start-of-cycle-in-linked-list>

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Distance travelled by slowPointer before meeting = x + y

Distance travelled by fastPointer before meeting = (x + y + z) + y = x + 2y + z

Since fastPointer travels with double the speed of slowPointer, and time is constant for both when the reach the meeting point.

So by using simple speed, time and distance relation 2(x+y)= x+2y+z => x+2y+z = 2x+2y => x=z

Hence by moving slowPointer to start of linked list, and making both slowPointer and fastPointer to move one node at a time, they both have same distance to cover .

They will reach at the point where the loop starts in the linked list.

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Sincerely,

The Word Team

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