Single Linked List

This is simplest kind of Linked List in which one node is connected to another via a next pointer.

C:\Users\savanibharat\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Singly-linked-list.svg.png

Picture taken from <https://en.wikipedia.org/wiki/File:Singly-linked-list.svg>

The above diagram shows that first node has data 12 as integer and it is connected to another node via next pointer to node having data 99. The last node contains data 37 which is pointing to null. In this way we terminate Single Linked List.

So if we are supposed to build the structure of Linked List in Java then we can built it using this information.

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\* Class name Node

\* It denotes the structure of the node.

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\* int data denotes that the data that the list will handle is of type integer.

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\* Node next denotes that we will point to next node.

\*

\* The constructor is used to create new node and setting node's next to null.

\* \*/

**public** **class** Node {

**public** **int** data;

**public** Node next;

**public** Node(**int** data) {

**this**.data = data;

next = **null**;

}

}

Now, we can perform several operations on Linked List given that we have basic structure of our list. Operations such as insert node, delete node, retrieve node, update node, sort list, etc.