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(One-way Linked List-Insertion and Deletion)

Insertion into a Linked List

- 1. Insertion at the beginning of the list
- 2. Insertion before a given node
- 3. Insertion of a node with a given location
- 4. Insertion into a sorted list.

Insertion at the beginning of the list on only.
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Insert_Begin(Info Link, Start 2002) - 2023 Aspose Pty Ltd.

- 1. Set Info[New] := Item
- 2. Set Link[New] := Start
- 3. Set Start := New.
- 4. Return

Insertion before a given node

Insert Before Node(Info, Link, Start, Item, Given Item)

- 1. Set Info[New] := Item
- 2. If Info[Start] = Given Item then
- 3. Link[New] := Start and Start := New and Return.
- Set Save := Start and PTR File Start only 4.
- 5. Crwale PTR # NULISAN AR FIRE # Siven Item Tot sepandard 2.0 23.1. Copyright 2004-2023 Aspose Pty Ltd. Save := PTR and PTR := Link[PTR]
- 6.
- 7. If PTR = NULL then Write: "Given Item is not in the List" and Return.
- 8. Link[New] := PTR or Link[Save] := New.
- 9. Return

Insertion with a given location

Insert_In_LOC(Info, Link, Start, Item, LOC)

- 1. Set Info[New] := Item
- 2. If LOC=1 then Link[New] := Start and Start := New and Return.
- 3. Set Save := Start and PTR := Ink[Start] and Count := 1.

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- 4. While PTR ≠ NULL and Count+1 ≠ LCC do step 5 Pty Ltd.
- 5. Save := PTR and PTR := Link[PTR] and Count := Count+1.
- 6. Link[New] := PTR and Link[Save] := New.
- 7. Return

Insertion into a Sorted List

Insert_Sorted_List_(Info, Link, Start, Item, LOC)

- 1. Set Info[New] := Item
- 2. If Item < Info[Start] then Link[New] := Start and Start := New and Return.
- 3. Set Save := Start and PTR := Link[Start]. **Evaluation only.**
- 4. Crybile PTR # 1941 do store 5 strictes for .NET Standard 2.0 23.1.
- 5. If Item > info[PTR] then Save := PTR and PTR := Link[PTR].
- 6. If Item <= Info[PTR] then Link[New] := PTR and Link[Save] := New and Return
- 7. If PTR = NULL then Link[New] := PTR and Link[Save] := New.
- 8. Return

Deletion From a One-Way Linked List

- 1. Deletion of the first node
- 1. Deletion of a node with a given location
- 2. Deleiton of a node with given value

Deletion of First Node
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Suppose we want to delete the first hode. A from Acone way Est.y Ltd.

Delete_First(Info, Link, Start)

- 1. If Start = NULL then Return
- 2. Set Start := Link[Start]
- 3. Return

Deletion of a Node with Given Location

Suppose we want to delete a node N with location N from the list.

Delete_Node_LOC(Info, Link, Start, LOC)

- 1. If LOC = 1 then Start := Link[Start] and Return.
- 2. Set Save := Start and PTR := Link[Start] ans Count := 1 Created with Aspose. Slides for .NET Standard 2.0 23.1.
- 3. While PTR!=NUDI/and Count 10 + 20236 step 450 Pty Ltd.
- 4. Save := PTR and PTR := Link[PTR] and Count := Count + 1.
- 5. If PTR = NULL then Write: "Location not found" and Return.
- 6. Set Save := Link[PTR]
- 7. Return.

Deletion of a Node with Given Value

Suppose we want to delete a node N with a given value from the list.

Delete_Node_Value(Info, Link, Start, Item)

- 1. If Item = Info[Start] then Start := Link[Start] and Return.
- 2. Set Save := Start and PTR Link[Start] only.

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- 3. While PTR'-NULL and Info[PTR] + Iten do step 4 se Pty Ltd.
- 4. Save := PTR and PTR := Link[PTR].
- 5. If PTR = NULL then Write: "Item not in the List" and Return.
- 6. Set Link[Save] := Link[PTR]
- 7. Return.

Evaluation only.

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