

DDS—Linked List Demo

Remove a Linked List Node

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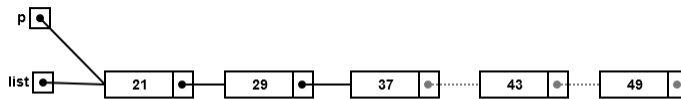
Remove a Linked List Node

- These slides show the demo for removing a linked list node
- It uses the file `remove.llist` from the DDS homepage at <http://dsviewer.org/dds/homepage/>
- Nodes in the tool represent this structure

```
Class Node{  
    String payload;  
    Node next;  
}
```

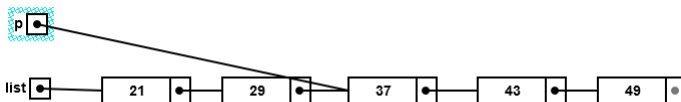
Remove Step 1

- Run <http://dsviewer.org/dds-llist/>
- Load the file `remove.llist`
- We will remove the 43 node



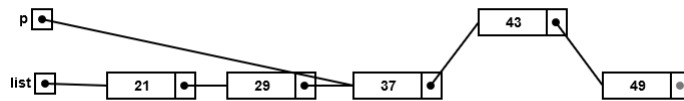
Remove Step 2

- Click on the `p` reference variable
- Click the `= .next` button 2 times to walk the reference to the 37 node



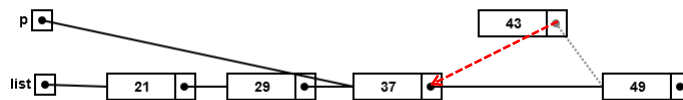
Remove Step 3

- Drag the 43 node up so we can link around it
- If you need to keep access to the 43 node, create a reference variable and link it to the 43 node




Remove Step 4

- Assign the 43 next reference to the 37 next reference by dragging the reference



Remove Step 5

- Click on the p reference variable and then click the `= null` button
- Clean up the garbage node by clicking on the garbage  button

