

Create a List

For this practice exercise, assume that

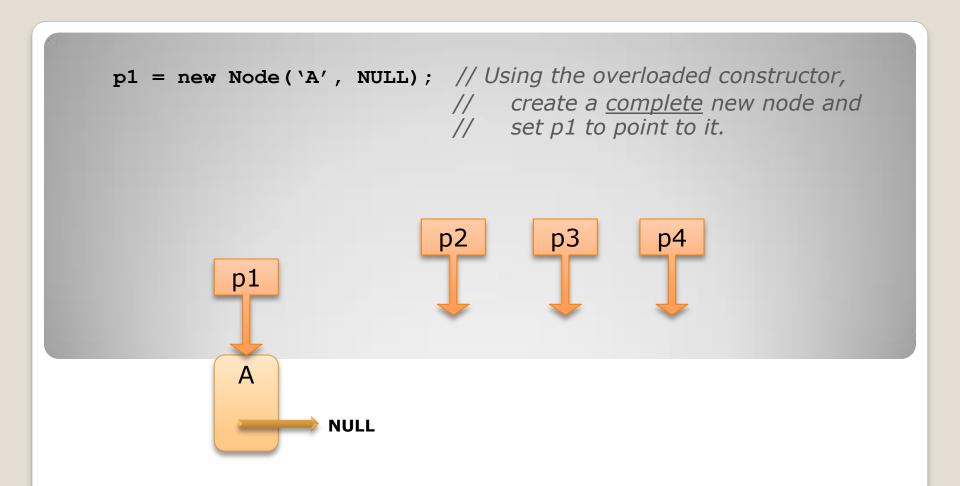
- All the functions are members of the Node class, as in the slides.
- The overloaded constructor sets the member variable data in the node to character 'x'.

Node *p1, *p2, *p3, *p4;

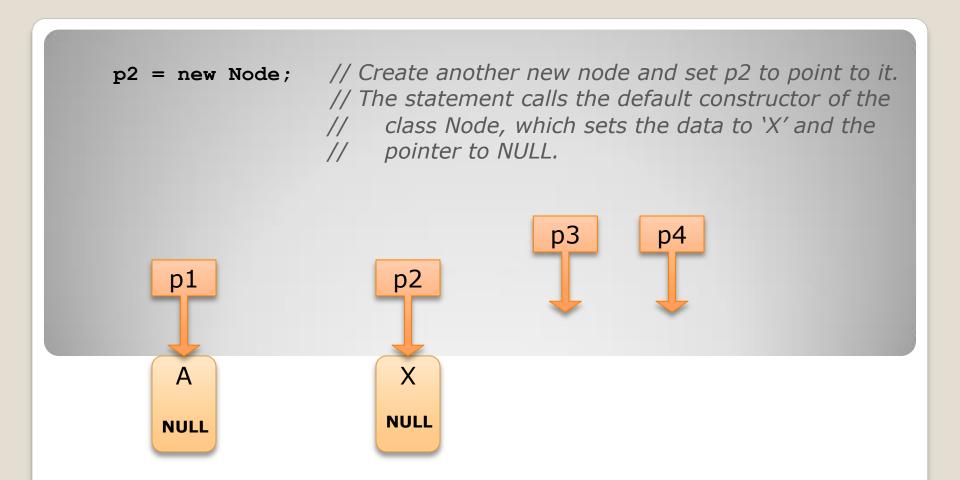
Node *p1, *p2, *p3, *p4; // Create four pointers that will point // to objects of the class Node.

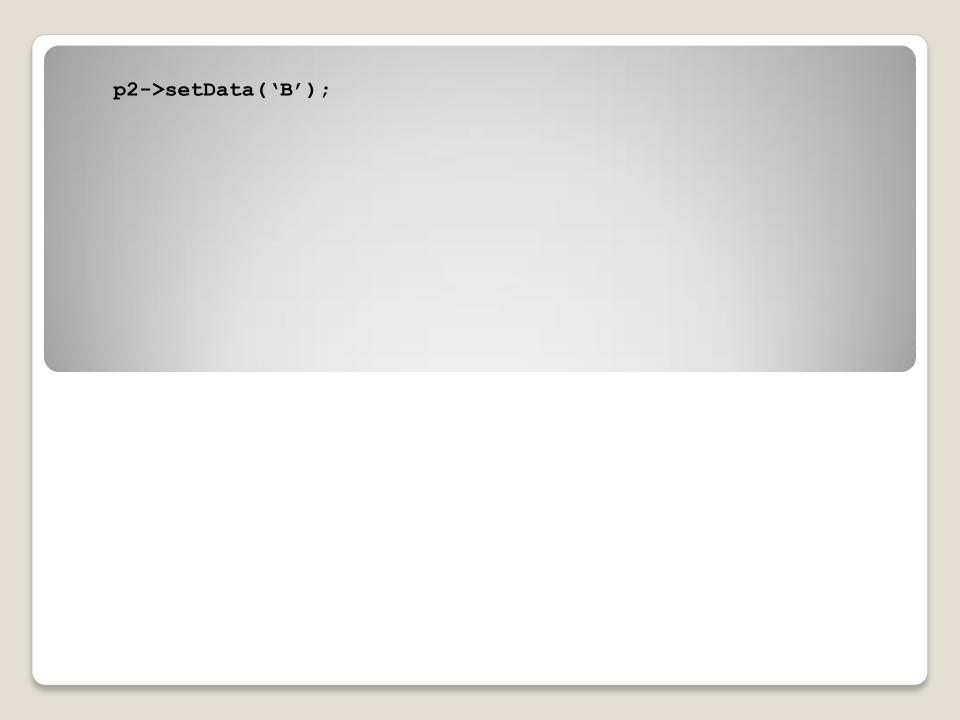
p1 p2 p3 p4

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p1 = new Node('A', NULL);
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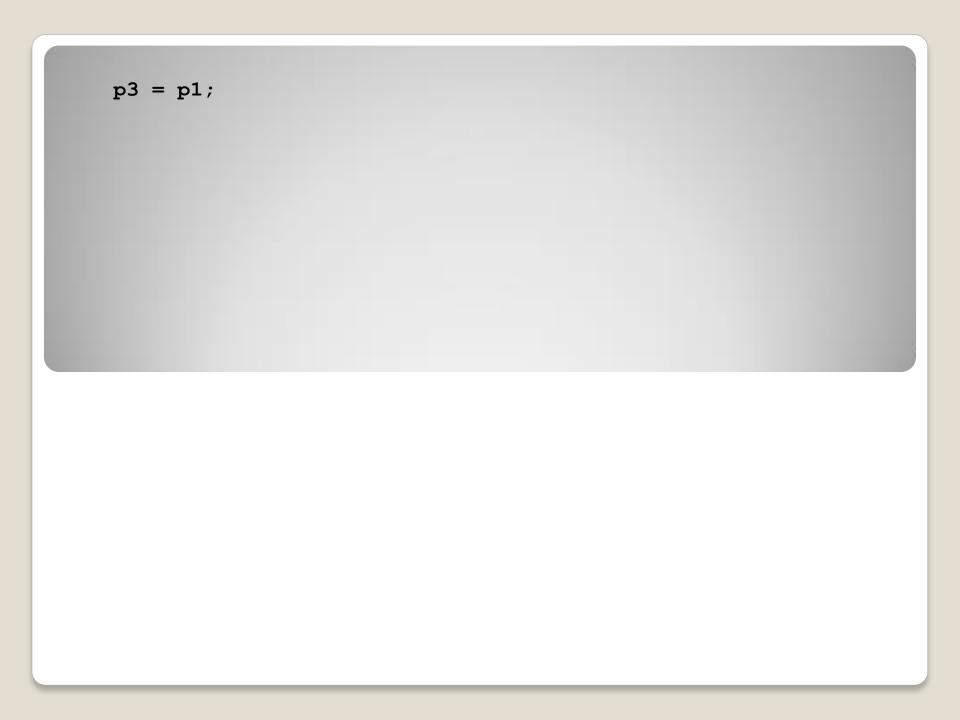


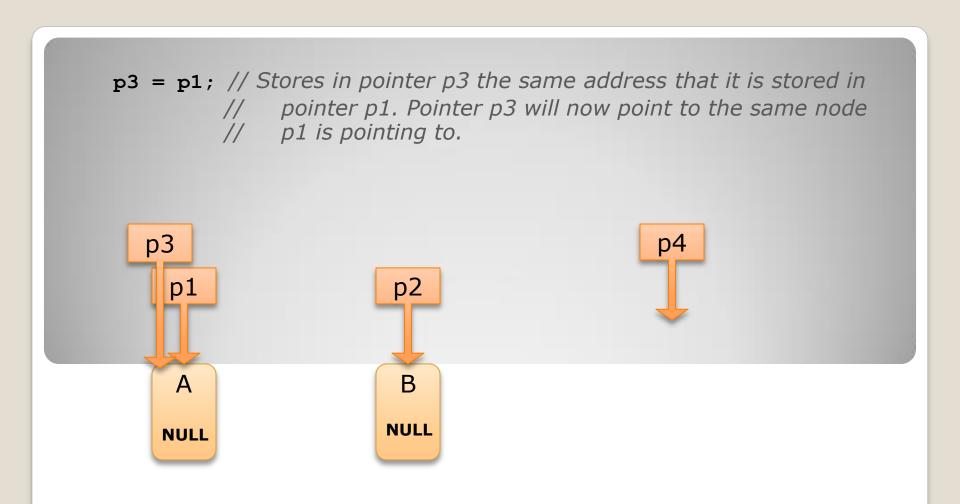
p2 = new Node;



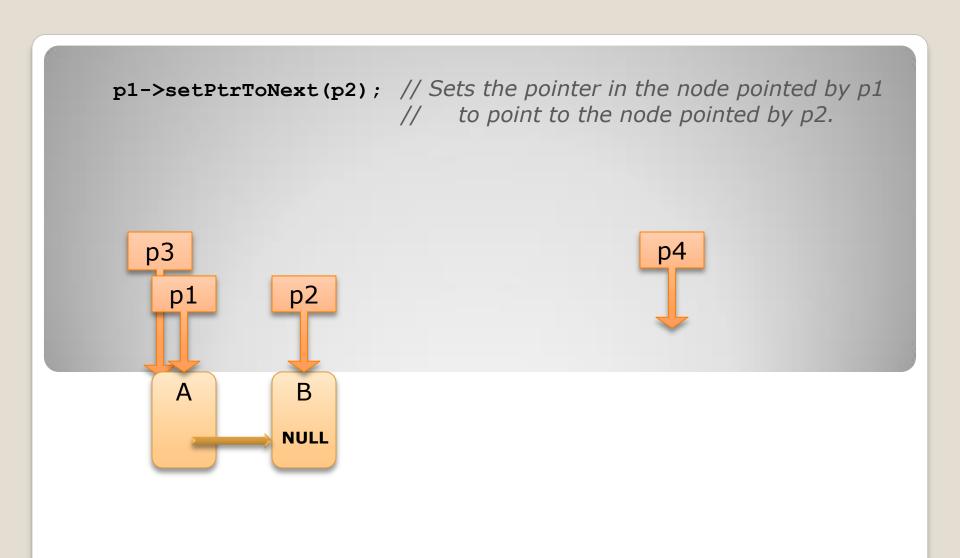


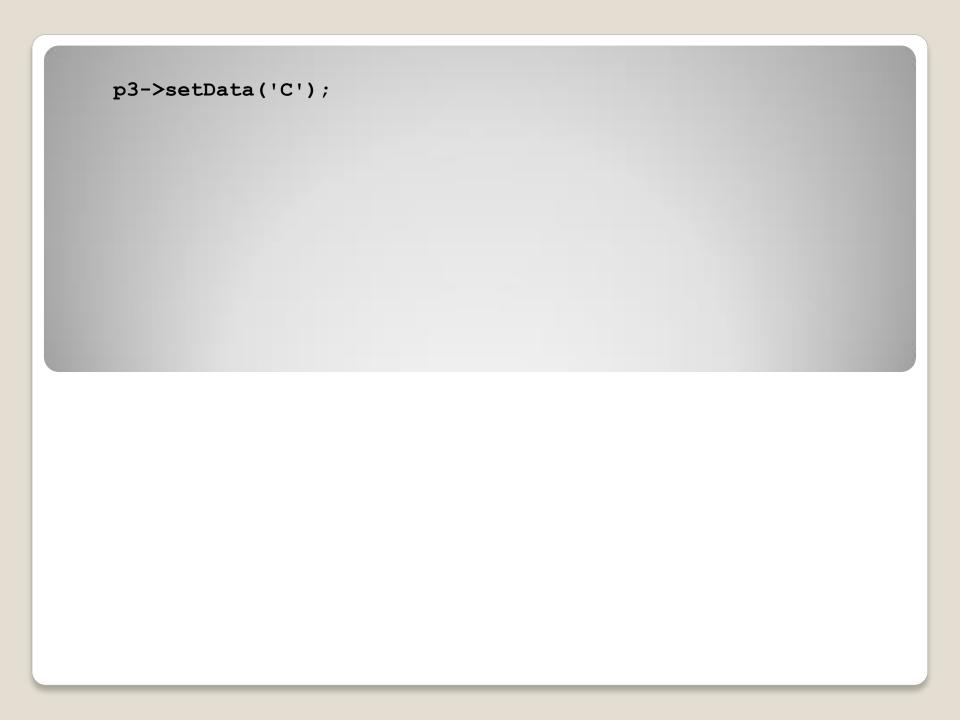
p2->setData('B'); // Stores char 'B' in the node that p2 is pointing to. **p3** p4 p2 p1 **NULL NULL**

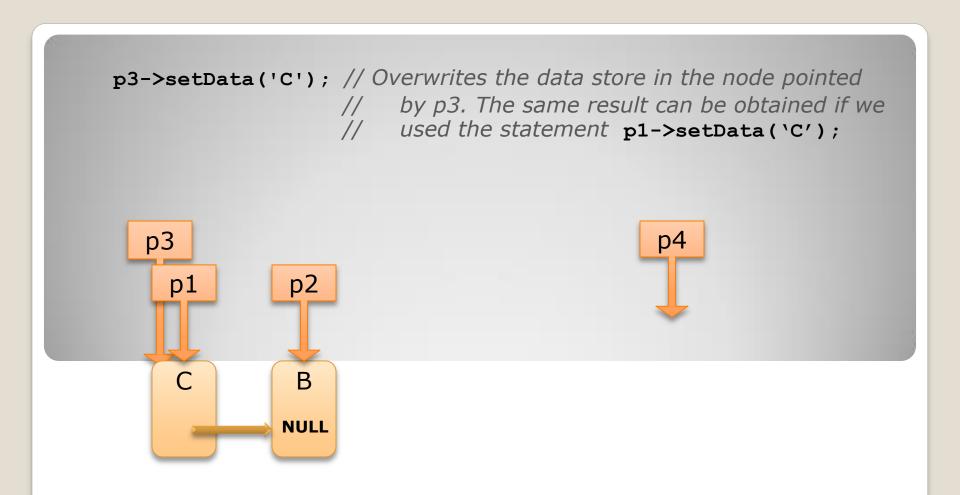




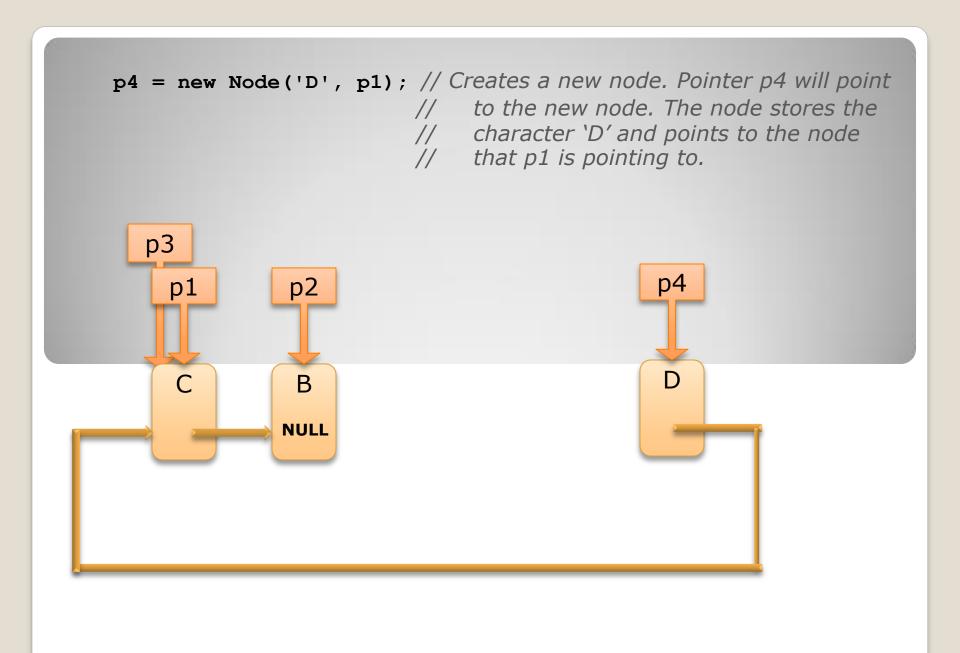


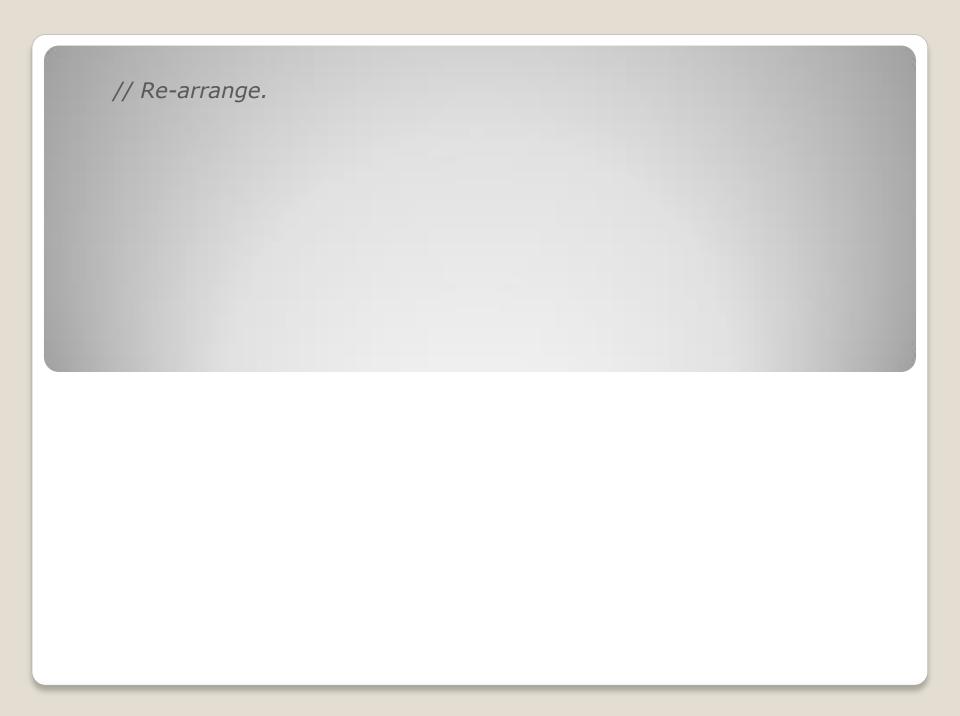


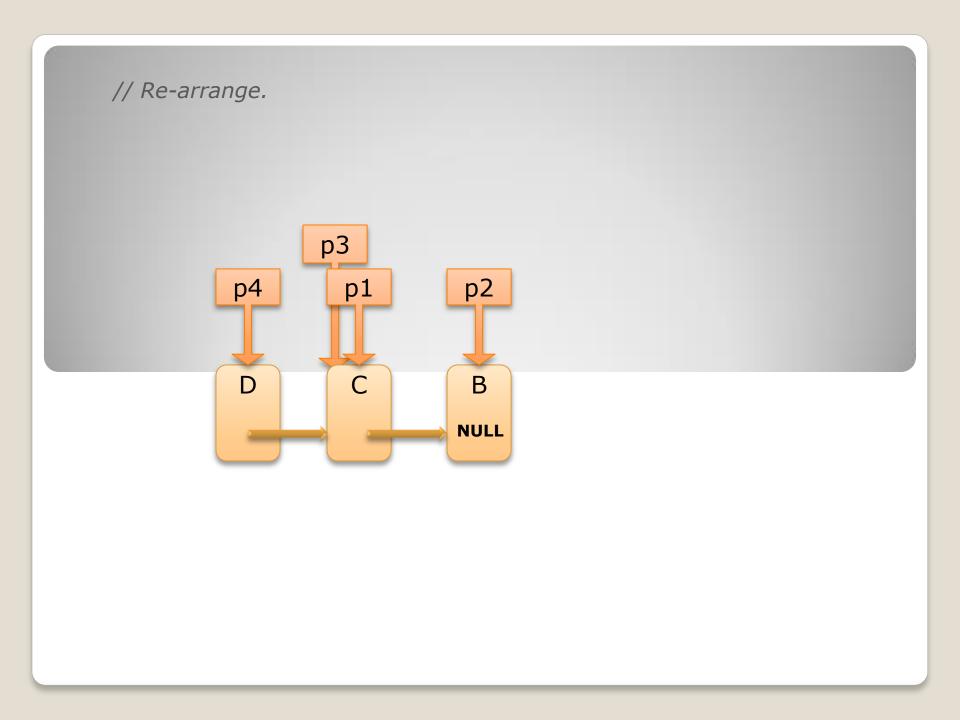




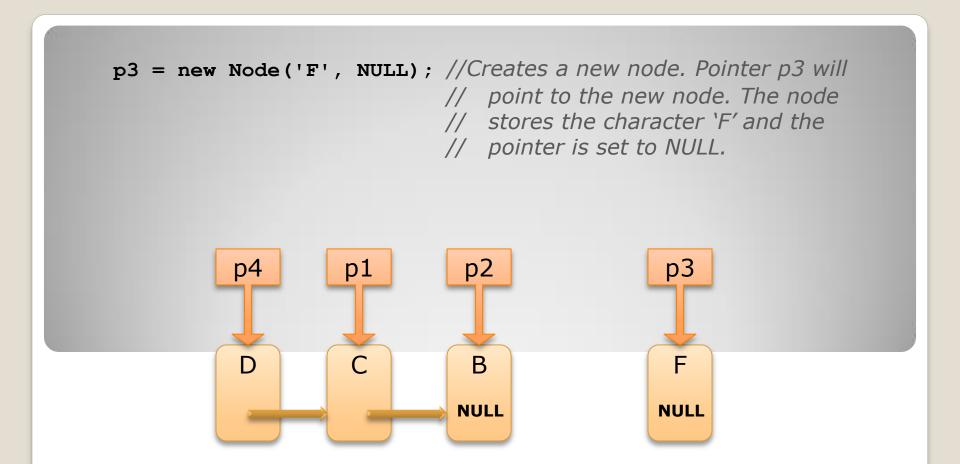
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p4 = new Node('D', p1);
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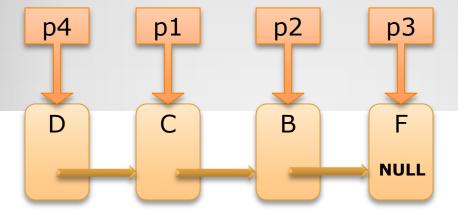


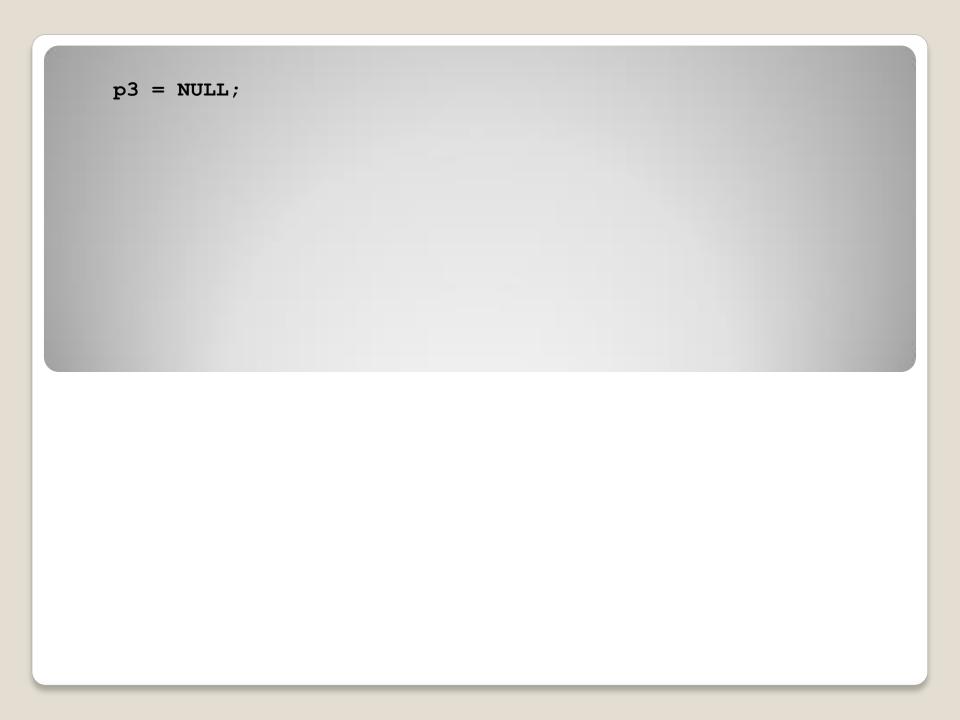


```
p3 = new Node('F', NULL);
```



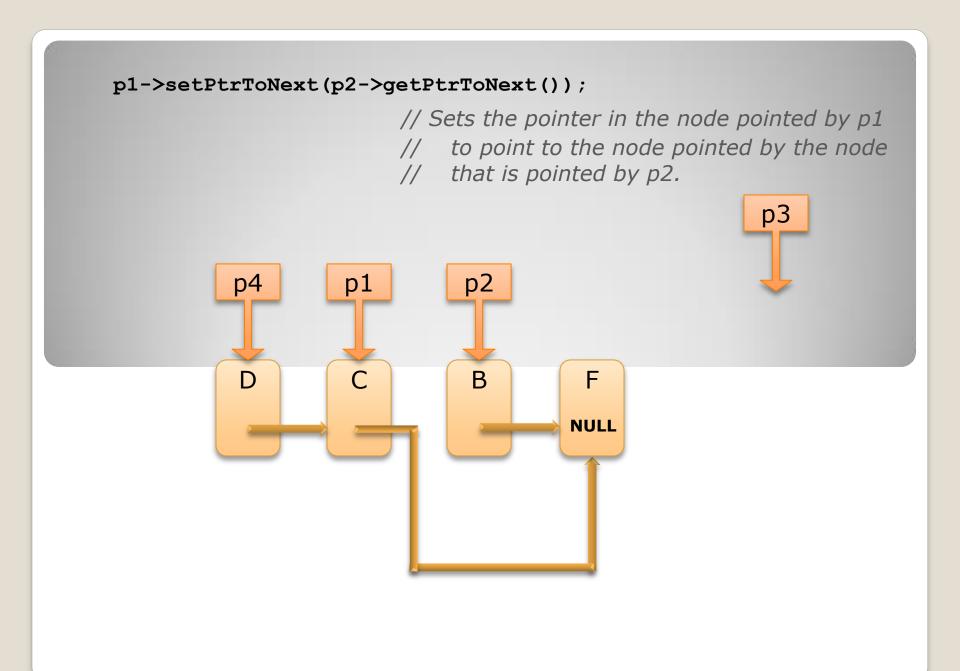


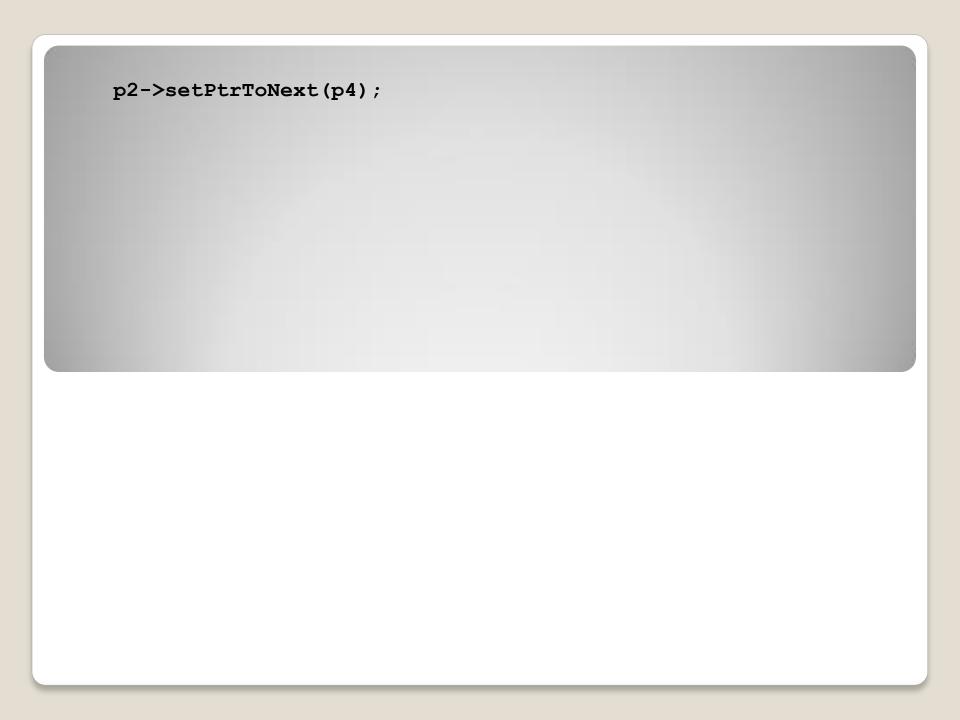


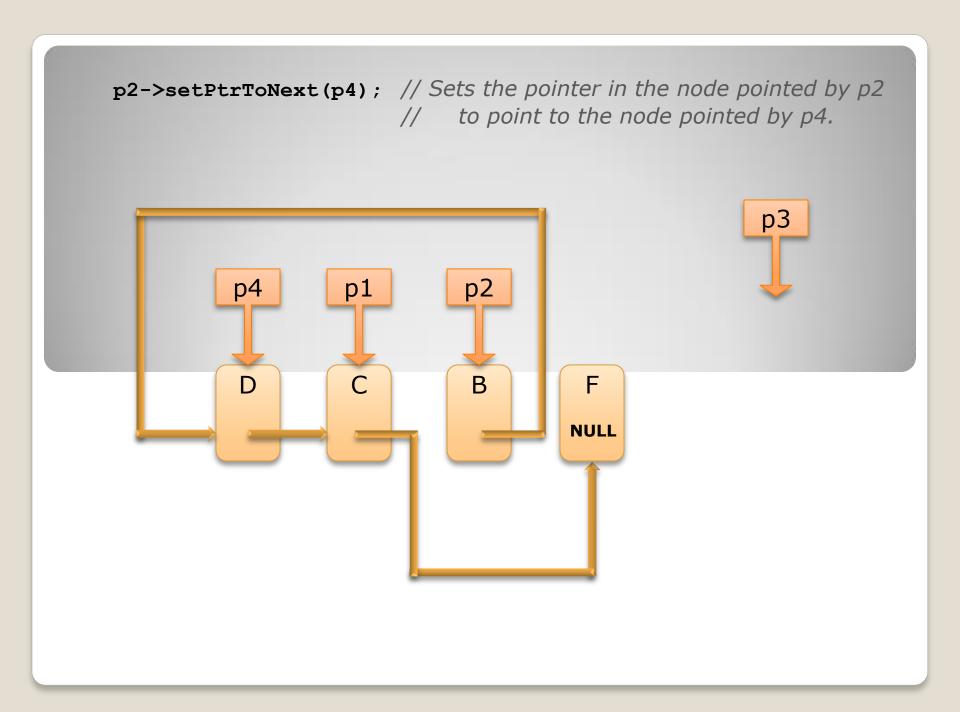


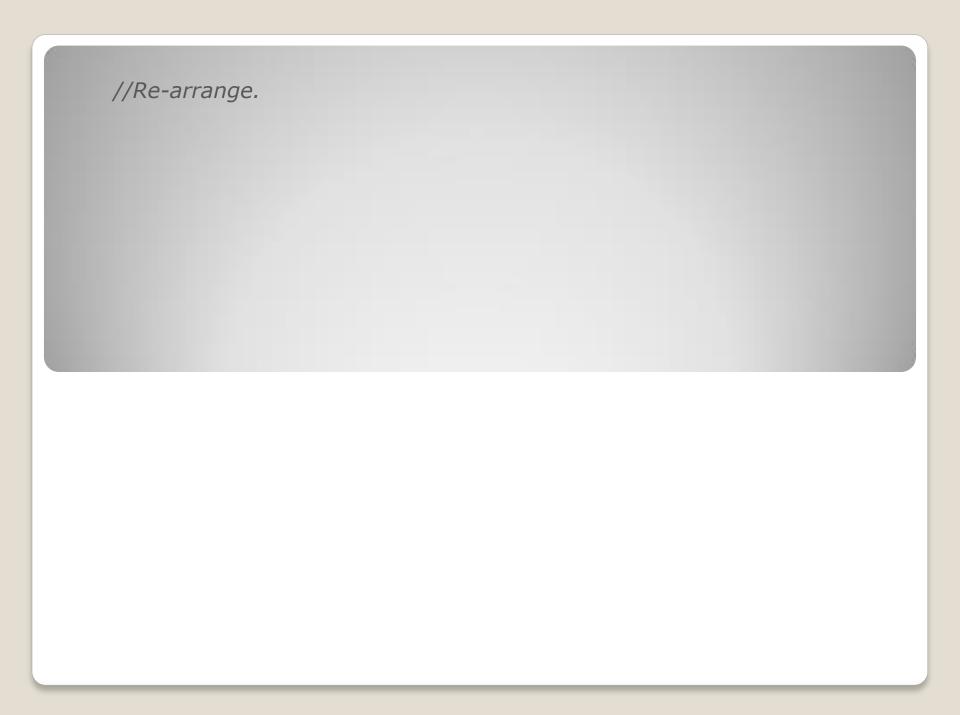
p3 = NULL; // Pointer p3 does not point to any node anymore. **p**3 p1 p2 p4 В F NULL

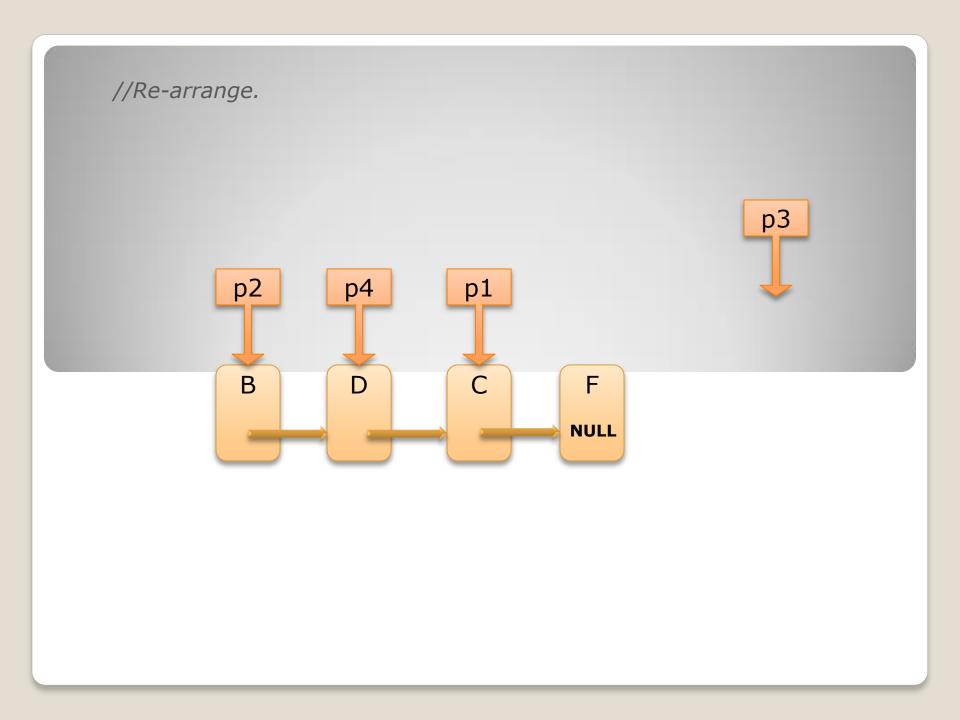
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p1->setPtrToNext(p2->getPtrToNext());
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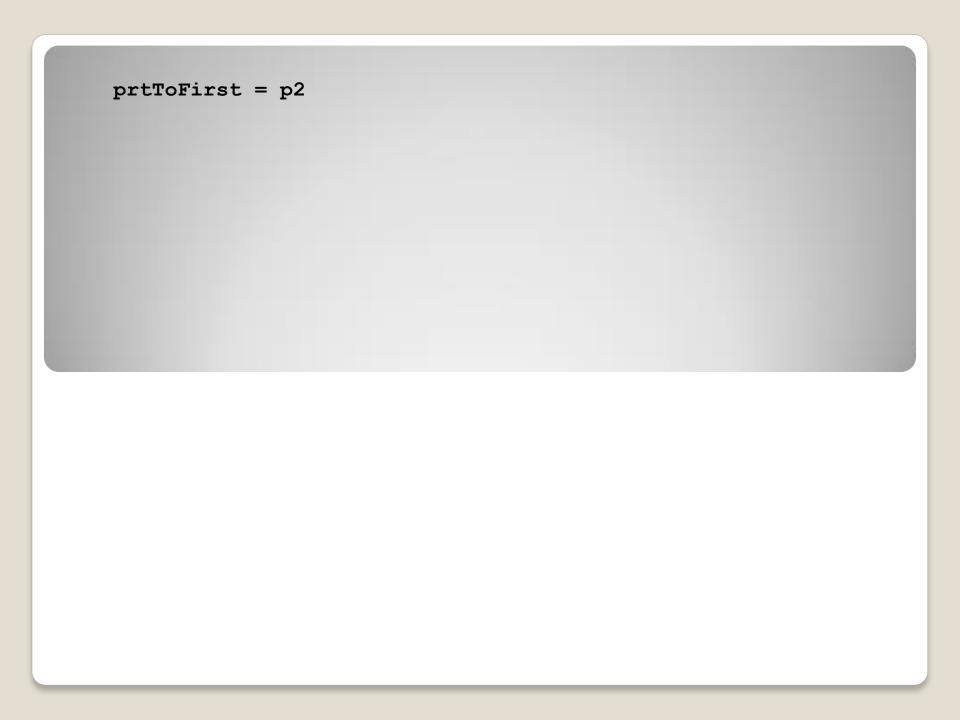


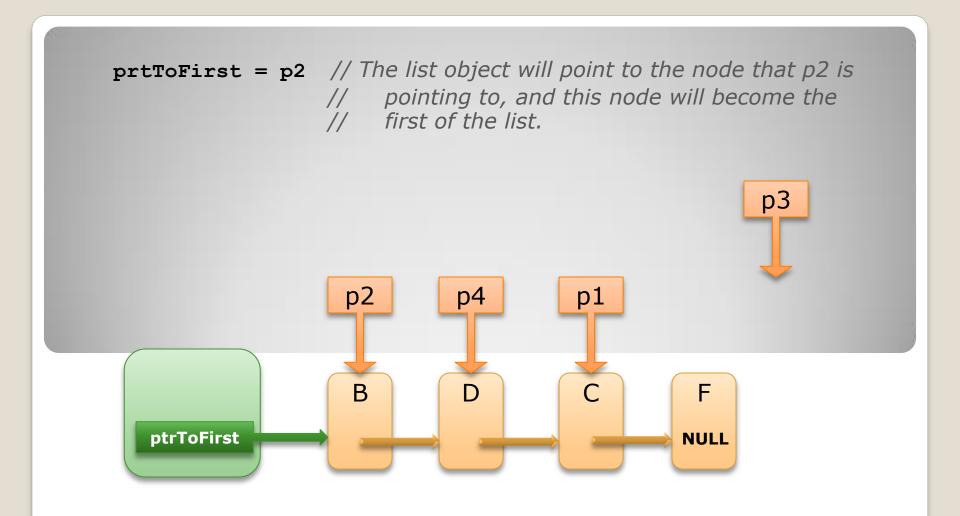












// The list object should also contain a variable to store the number // of nodes, but that was not part of this exercise.

