You Do
some linked coding
Let’s store some ints in a linked structure in increasing order.

Node declaration

```java
private class Node {
    int data;
    Node next;
}
```
We’ll keep a variable *head* that points at the start of the list. Initially there is no data, so head is null.

Step 1: add value 8.
Our list will consist of just one Node

The code for this is just

```
head = new Node(8);
```
Step 2: Add value 20.

20 comes after 8 (we want the order to be increasing) so we want this:

```
Code:        Node p = new Node( 20 );
head.next = p;
```
Step 3. Now we want to add 12, making this picture:

You write the code.  
Hint: Let variable q be the new Node.  Let variable p be the Node we want to come before q, r the Node after q.  Then p.next = q; q.next = r;
Answer:
    Node q = new Node(12);
    Node p = head;
    Node r = head.next;
    p.next = q;
    q.next = r;
Step 4. Now we want to add 17, making this picture:

You do it.
Here’s the code to add 17:

```java
Node p = head.next;
Node r = p.next;
Node q = new Node(17);
p.next = q;
q.next = r;
```
Step 5: add 5

Again, you write the code
Node p = new Node(5);
p.next = head;
head = p;
head

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