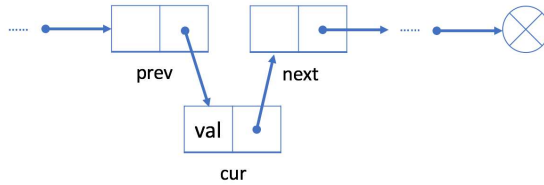




3. Link the "next" field in prev to cur .



Unlike an array, we don't need to move all elements past the inserted element. Therefore, you can insert a new node into a linked list in $O(1)$ time complexity if you have a reference to prev , which is very efficient.

An Example



Let's insert a new value 9 after the second node 6.

We will first initialize a new node with value 9. Then link node 9 to node 15. Finally, link node 6 to node 9.

After insertion, our linked list will look like this:

