

```
concat(a: Node, b: Node) returns (res: Node)
  requires lslseg(a, null, x) * uslseg(b, null, x);
  ensures slseg(res, null);
{
  if (a == null)
    return b;

  Node curr := a;

  while (curr.next != null)
    invariant curr != null;
    invariant lslseg(a, curr, curr.data) * lslseg(curr, null, x)
    curr := curr.next;
  curr.next := b;
  return a;
}
```