

```
procedure concat(a: Node, b: Node) returns (res: Node)
```

```
  requires lseg(a, null) * lseg(b, null);
```

```
  ensures lseg(res, null);
```

```
{
```

```
  if (a == null)
```

```
    return b;
```

```
  Node curr := a;
```

```
  while (curr.next != null)
```

```
    invariant curr != null * lseg(a, curr) * lseg(curr, null);
```

```
    curr := curr.next;
```

```
  curr.next := b;
```

```
  return a;
```

```
}
```

