

```

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

```

```

  requires lsleg(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 lsleg(a, curr, curr.data) * lsleg(curr, null, x);

```

```

    curr := curr.next;

```

```

  curr.next := b;

```

```

  return a;

```

```

}

```

