REVERSE K-GROUP

K = 2

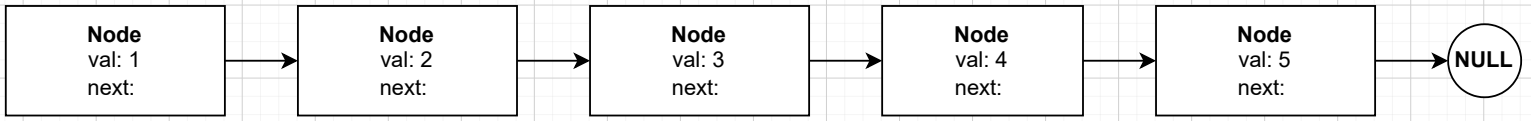
PROBELEM STATEMENT

slow

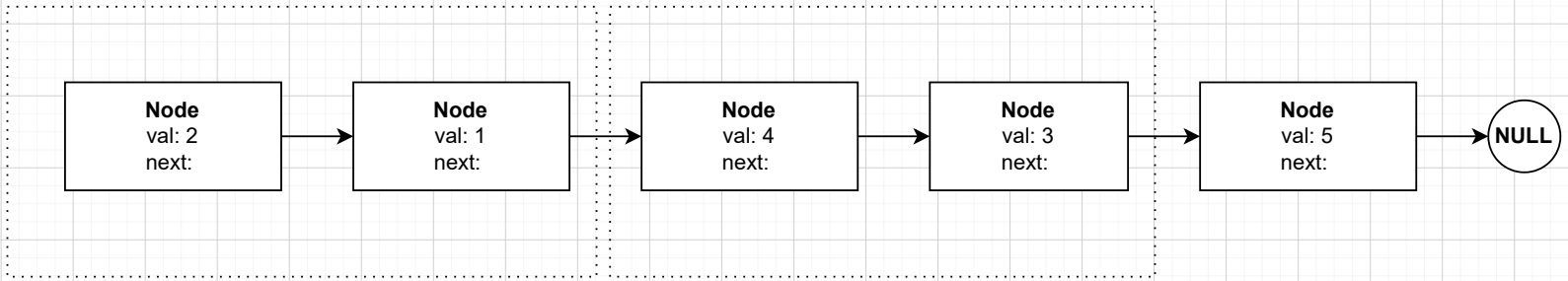
fast

head

INPUT:



OUTPUT



INIT VALUES:

ansNode → NULL

currHead → head

prevHead → NULL

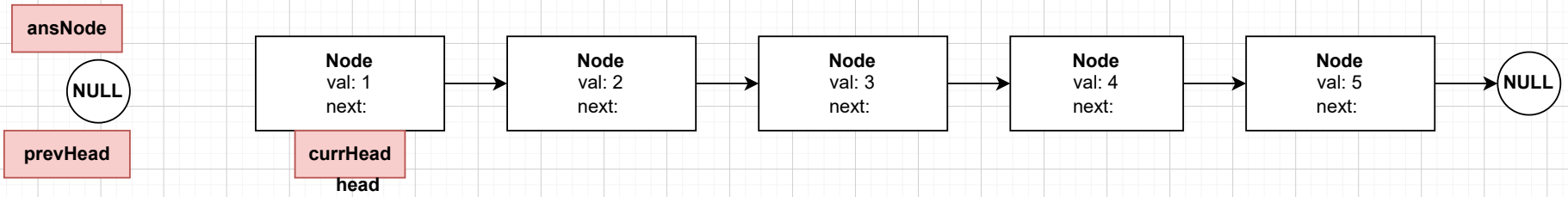
head

In each group

curr

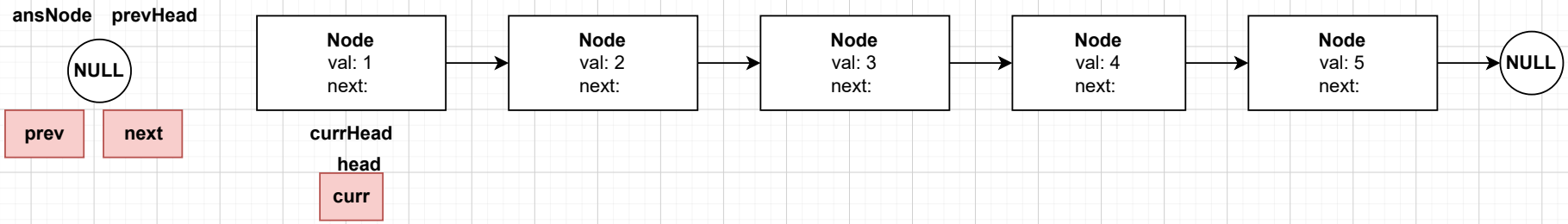
prev

next



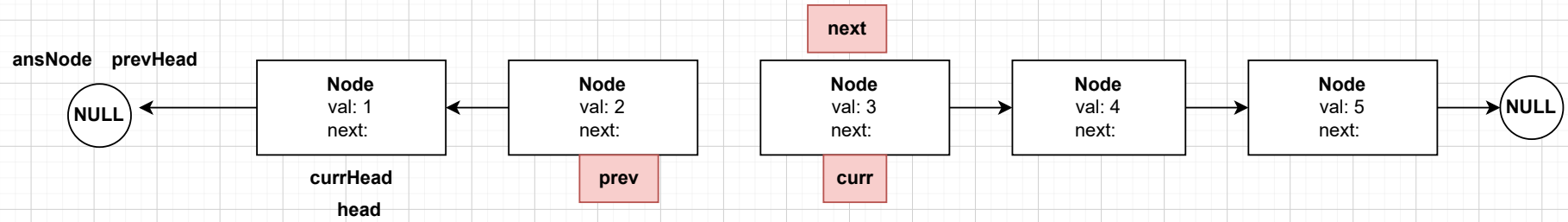
For Each Group (K)

```
ListNode prev = null;
ListNode curr = currHead;
ListNode next = null;
```

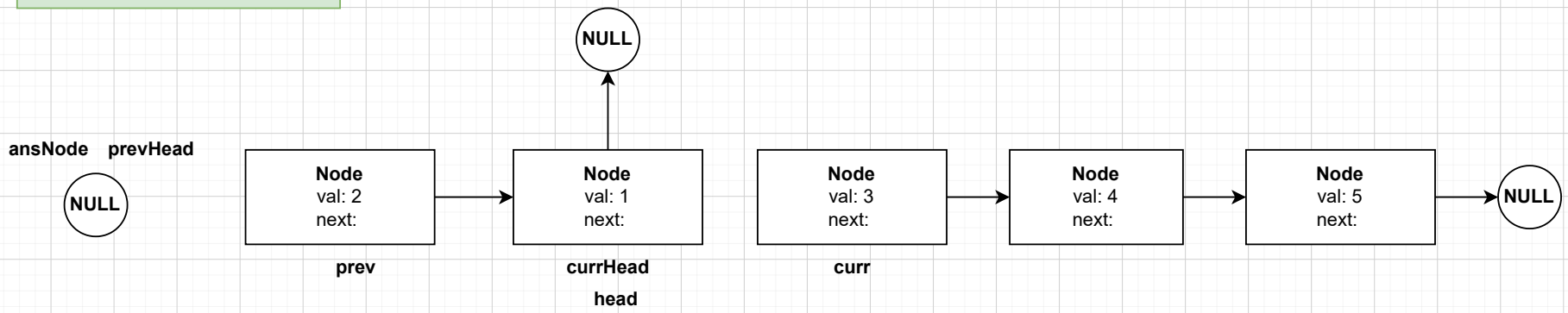


Reversing Each Group (K)

```
next = curr.next;
curr.next = prev;
prev = curr;
curr = next;
```



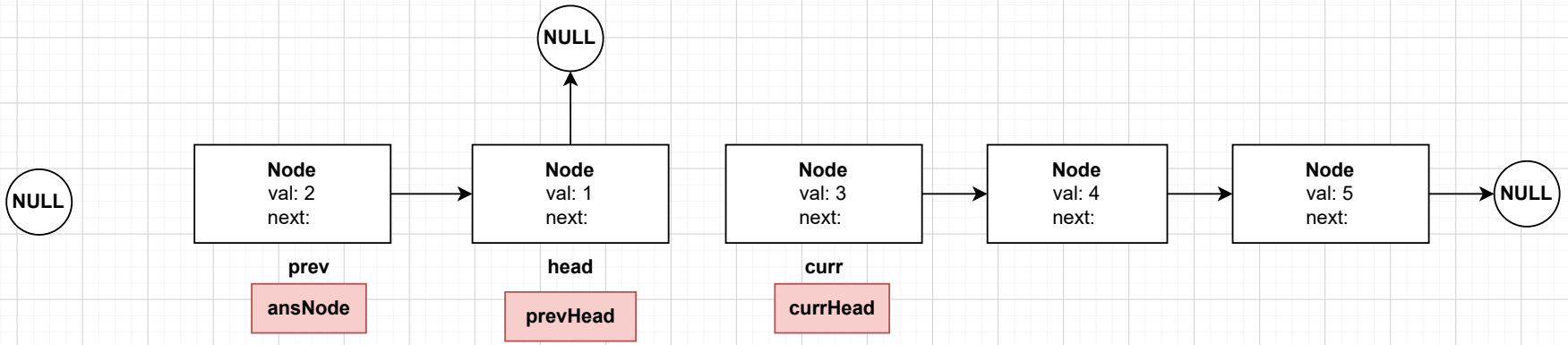
This is equivalent to ==>



After Reversing elemnts in K-group

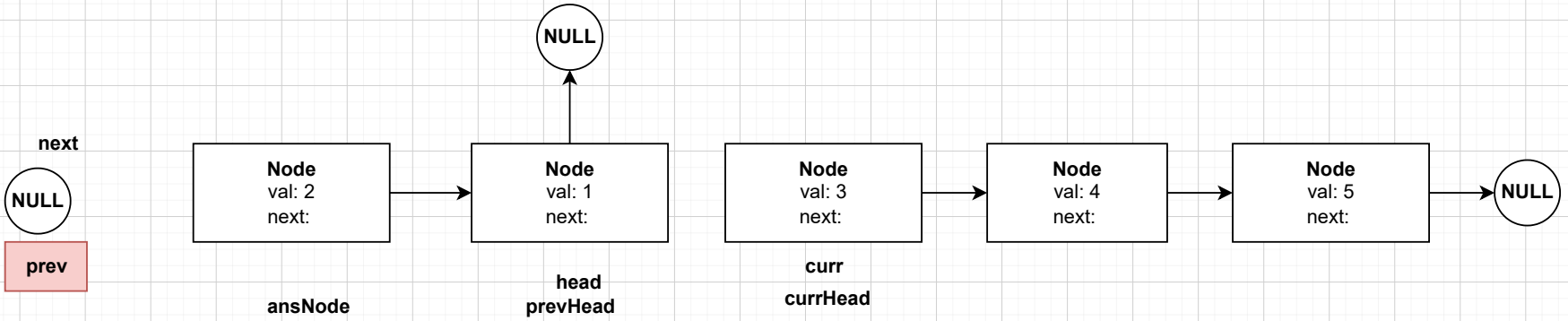
```
if(prevHead == null) {
    ansNode = prev;
} else {
    prevHead.next = prev;
}

prevHead = currHead;
currHead = curr;
```



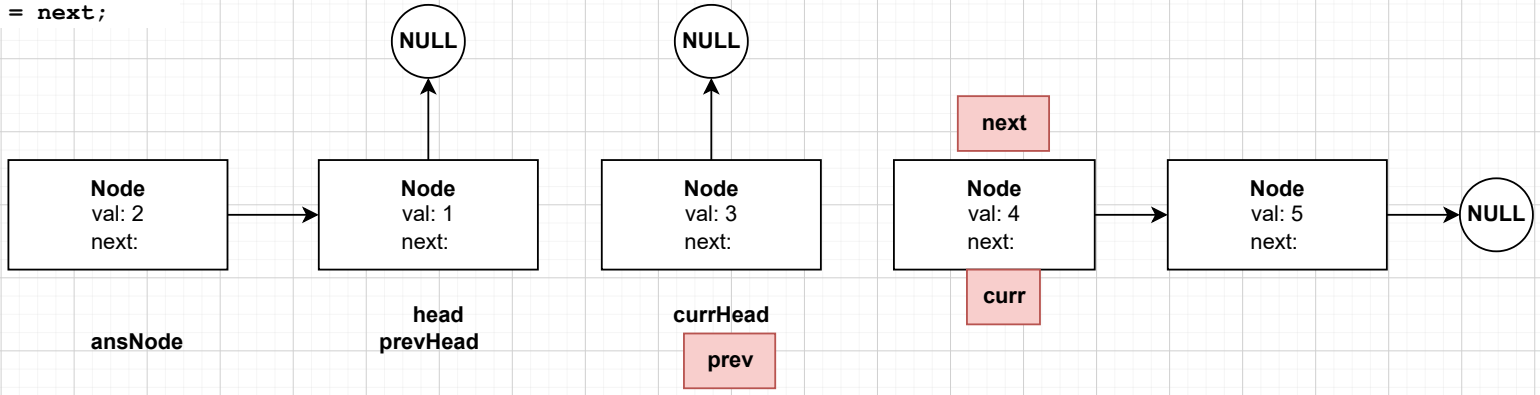
For Each Group (K) [2nd iteration)

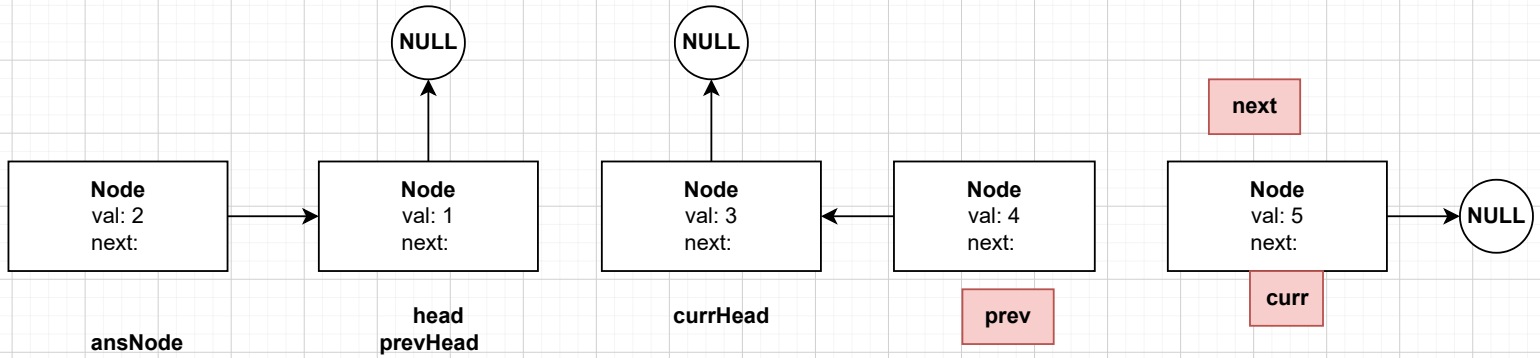
```
ListNode prev = null;
ListNode curr = currHead;
ListNode next = null;
```



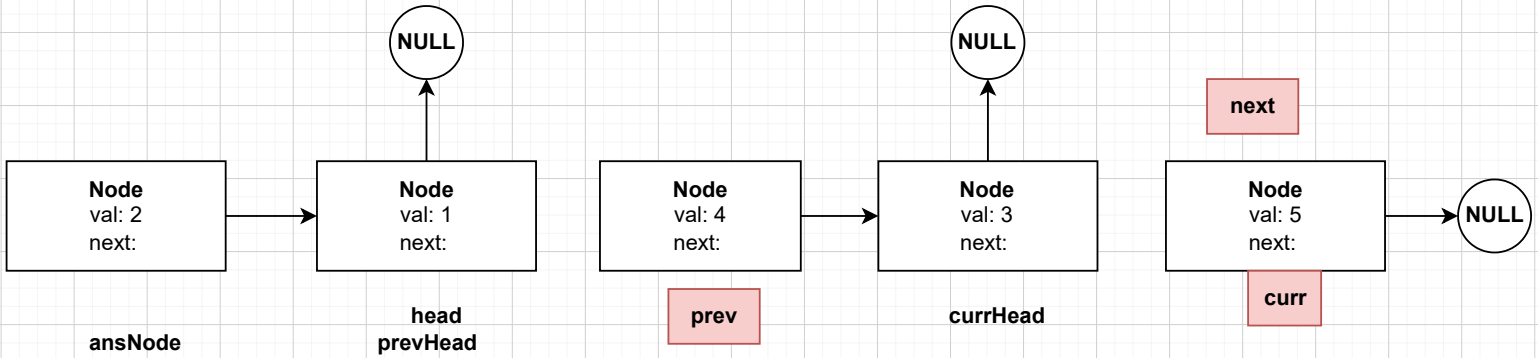
Reversing Each Group (K)

```
next = curr.next;
curr.next = prev;
prev = curr;
curr = next;
```





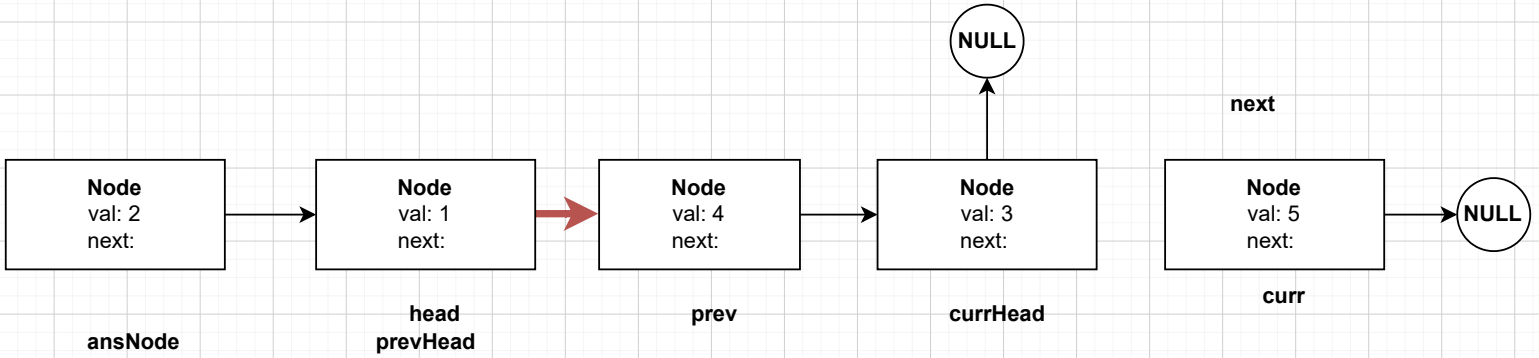
This is equivalent to ==>

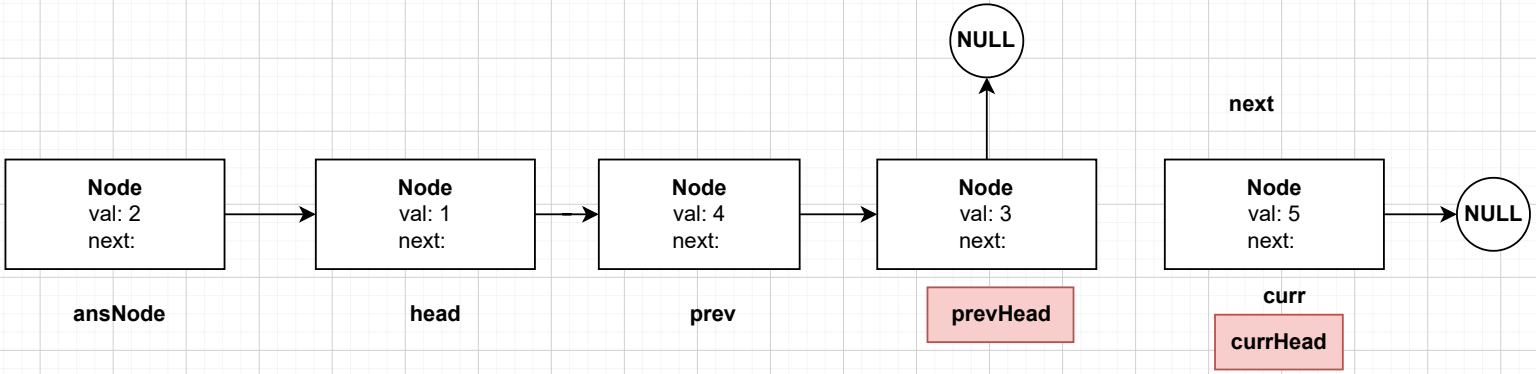


After Reversing elemnts in K-group

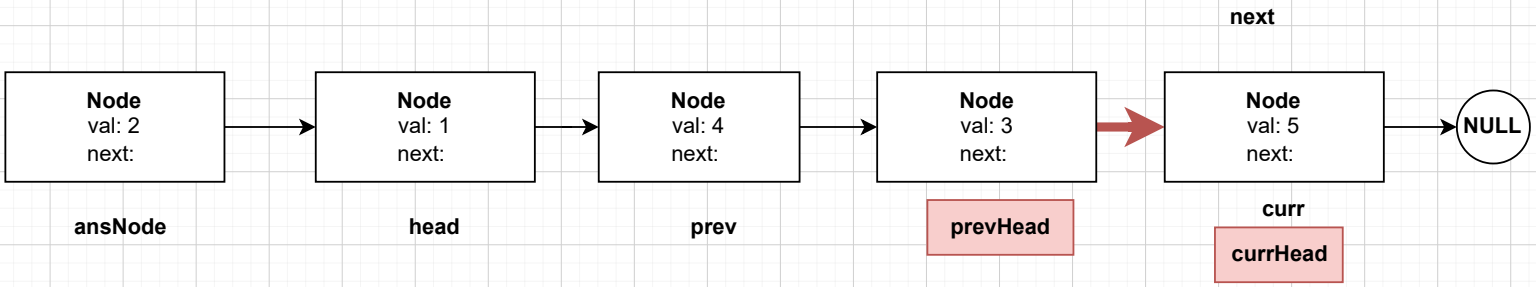
```
if(prevHead == null) {
    ansNode = prev;
} else {
    prevHead.next = prev;
}

prevHead = currHead;
currHead = curr;
```





```
//link the last incomplete group
// ,if last group was complete
//currHead would be null
prevHead.next = currHead;
```




```
return ansNode;
```