# Suggestions for Assignment 2 (Parts 3-4)

### **Outline**

#### Feedback from Assignment 1

#### How to merge stacks ensuring max size 5?

 Example about how to remove pieces from the stack ensuring that max 5 pieces are on the stack.

# Some Feedback on Assignment 1

```
char greeting[] = "hello";
strcpy(greeting, "hi how are you?");
```

```
char greeting[] = "hello";
strcpy(greeting, "hi how are you?");
```



```
char greeting[20] = "hello";
strcpy(greeting, "hi how are you?");
```

```
char greeting[20] = "hello";
strcpy(greeting, "hi how are you?");
```



```
char greeting[20] = "hello";
strcpy(greeting, "hi how are you?
Whats up bro");
```

```
char greeting[20] = "hello";
strcpy(greeting, "hi how are you?
Whats up bro");
```



```
char *greeting;
strcpy(greeting, "hi how are you?");
```

```
char *greeting;
strcpy(greeting, "hi how are you?");
```



```
char *greeting = NULL;
strcpy(greeting, "hi how are you?");
```

```
char *greeting = NULL;
strcpy(greeting, "hi how are you?");
```



```
char *greeting = (char *) malloc(20);
strcpy(greeting, "hi how are you?");
```

```
char *greeting = (char *) malloc(20);
strcpy(greeting, "hi how are you?");
```

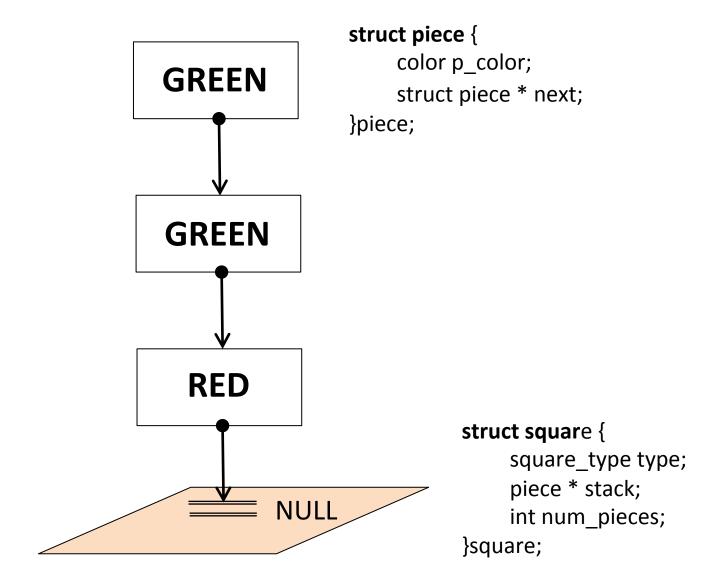


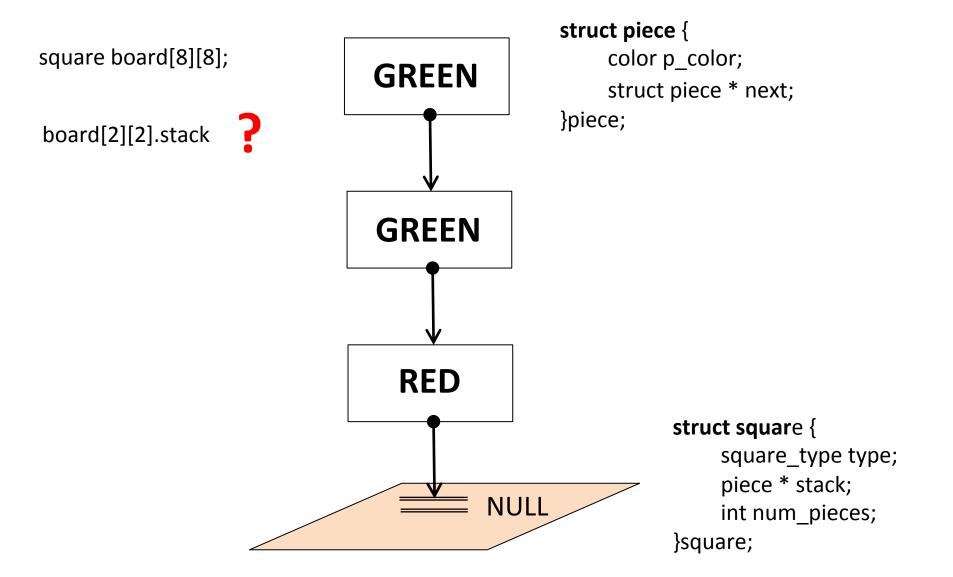
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char *greeting = (char *) malloc(20);
strcpy(greeting, "hi how are you?
Whats up bro");
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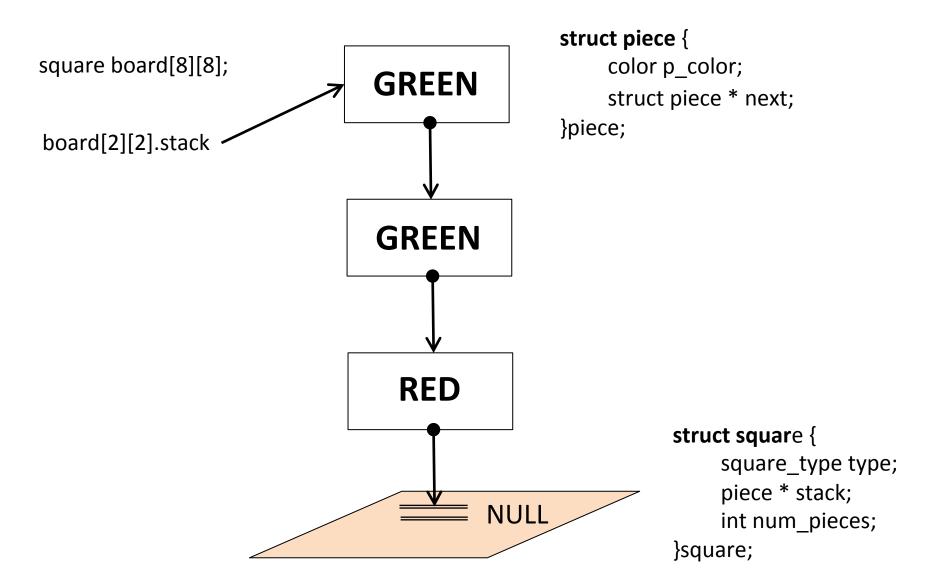
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char *greeting = (char *) malloc(20);
strcpy(greeting, "hi how are you?
Whats up bro");
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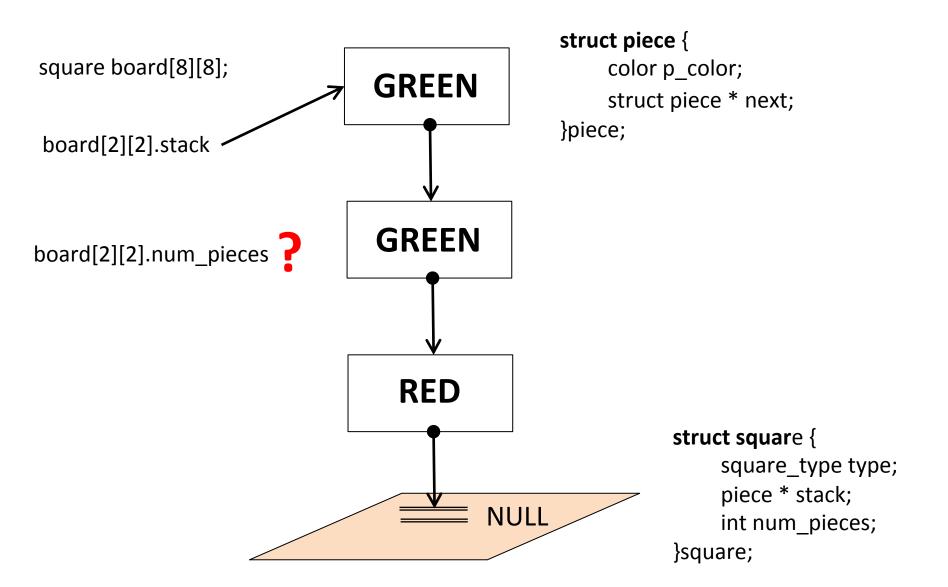


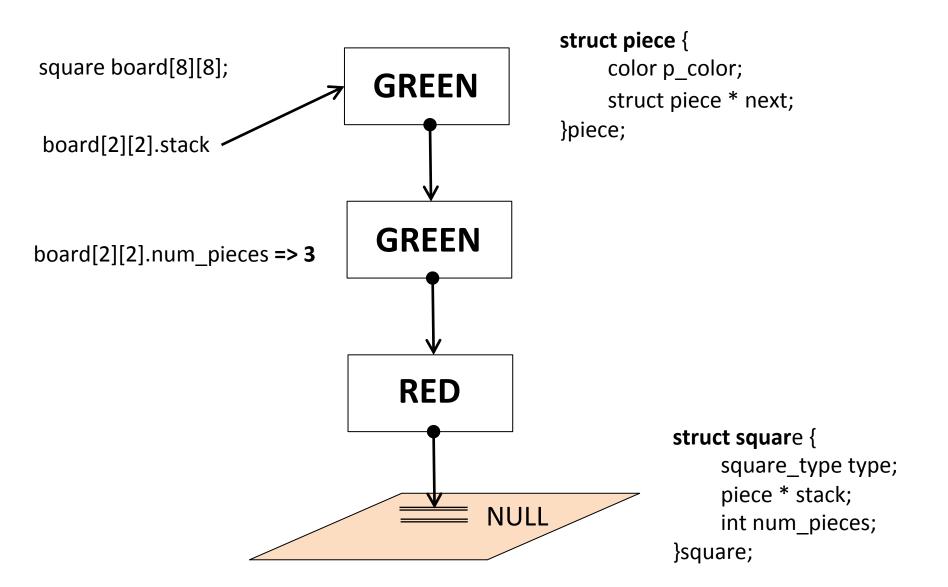
## How to merge stacks ensuring that max size is 5?

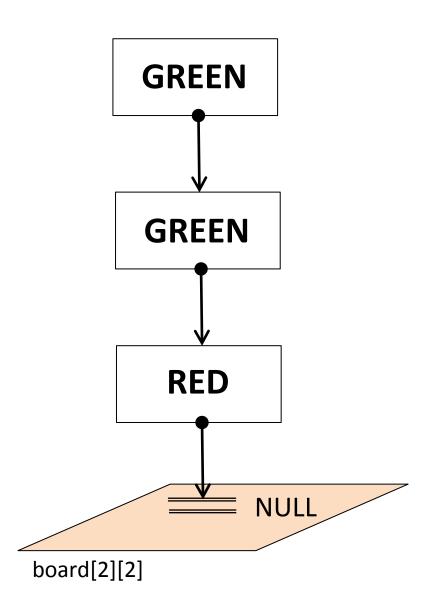


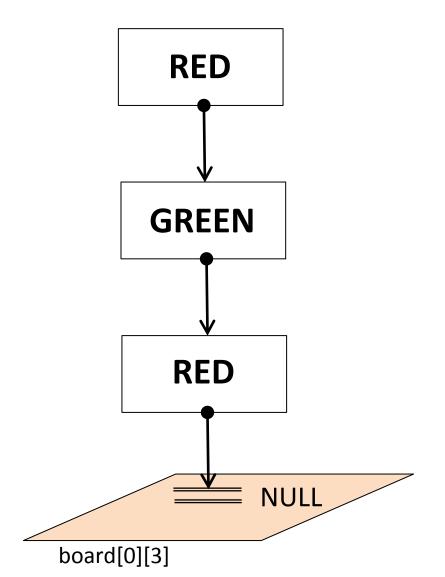


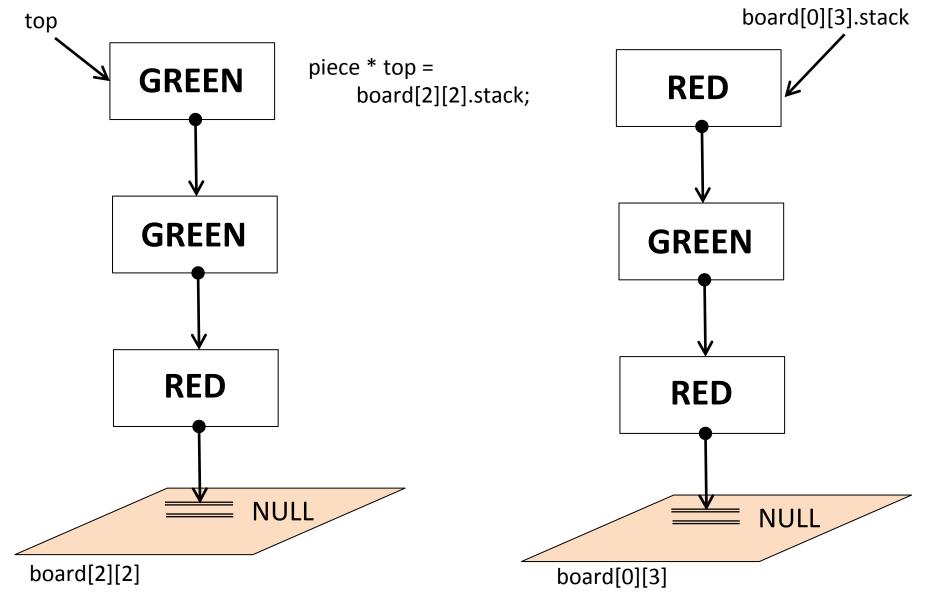


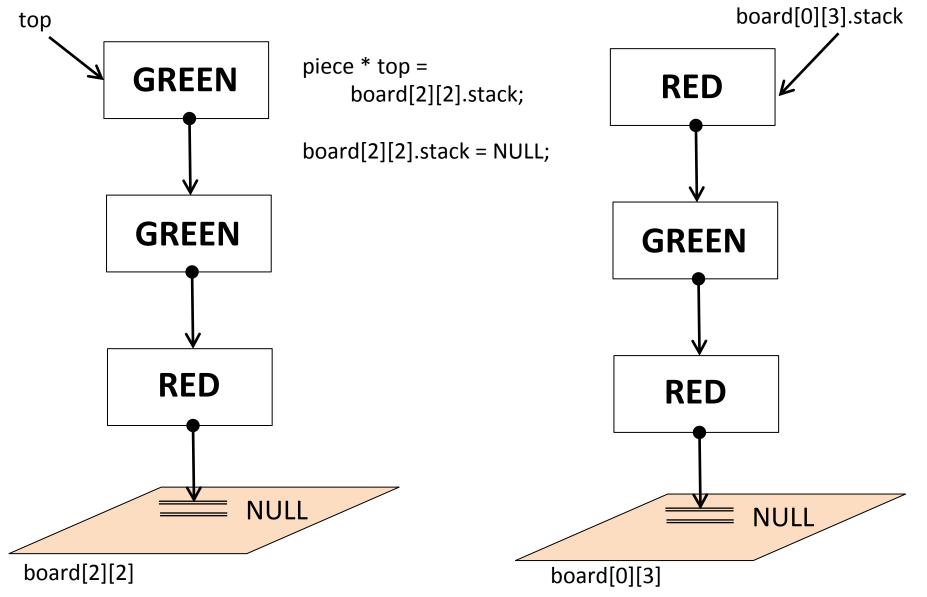


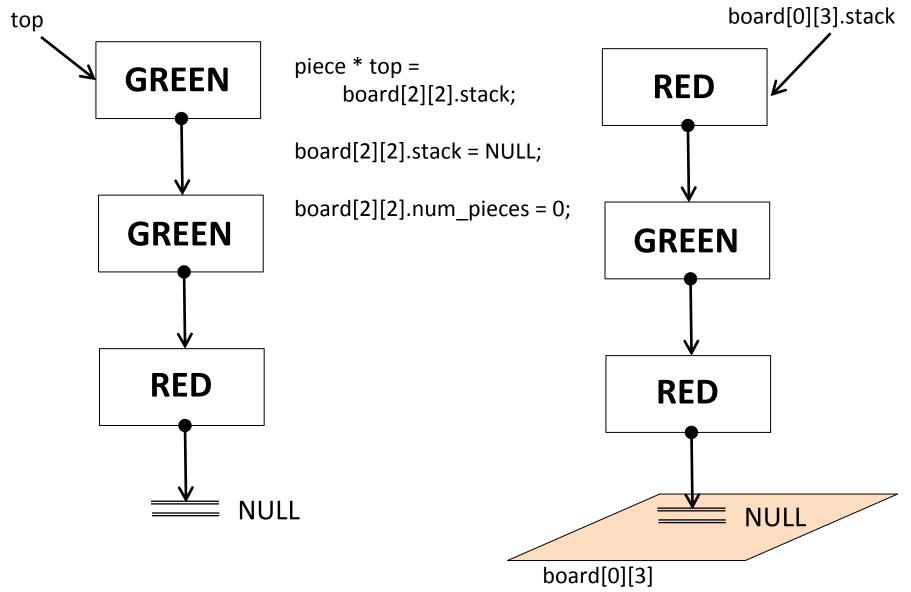


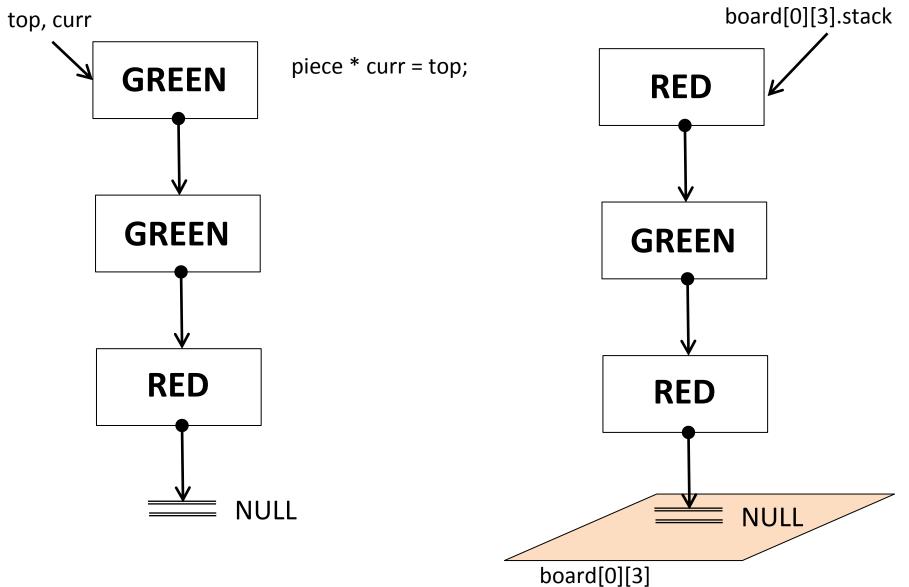


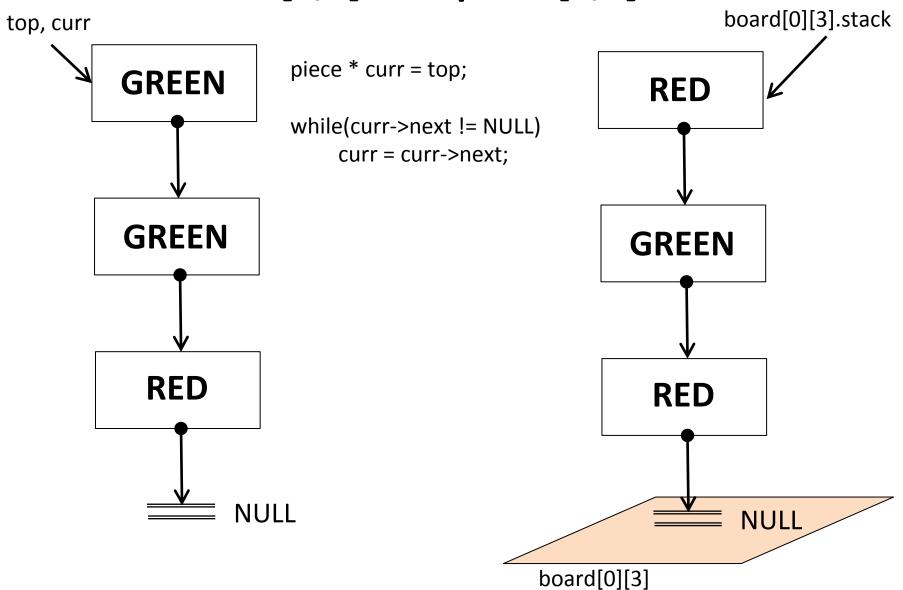


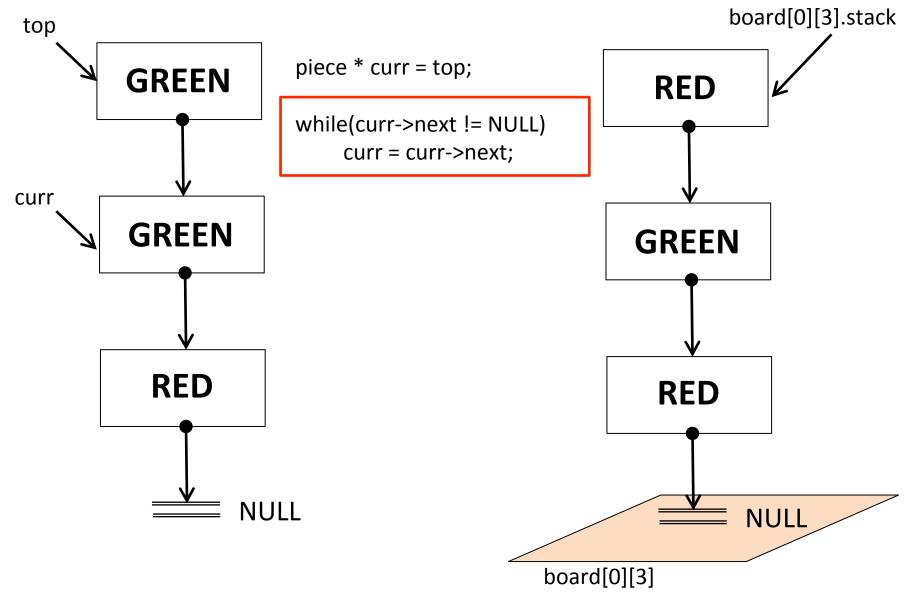


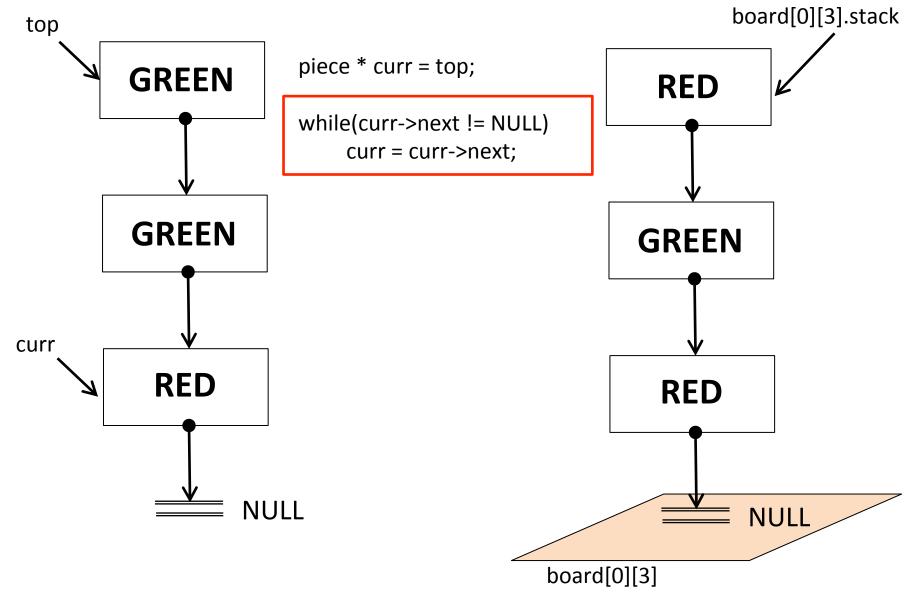


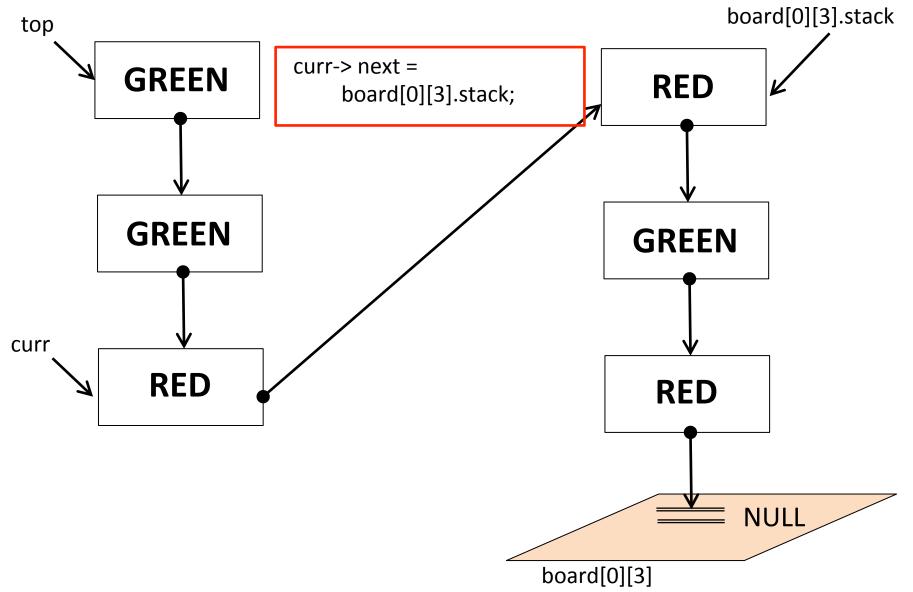


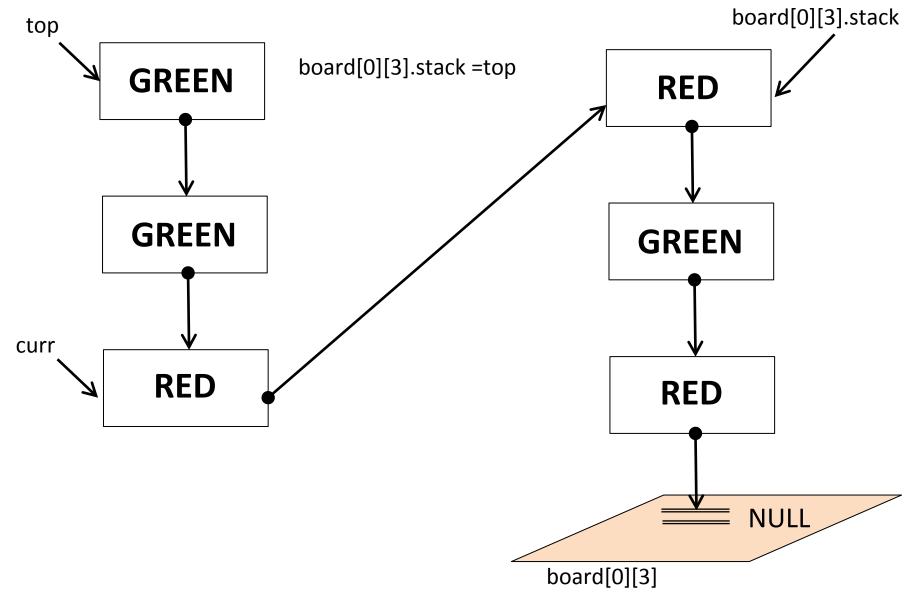


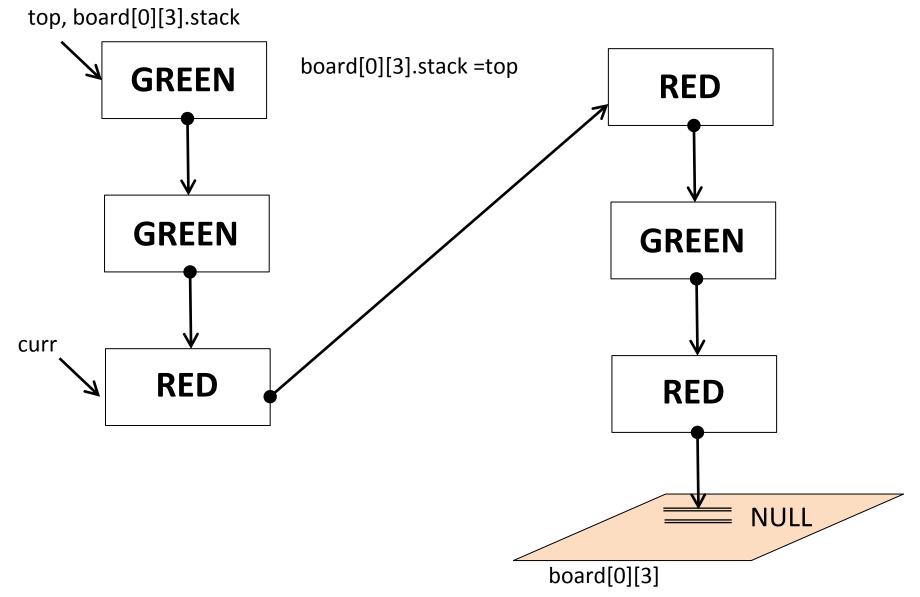


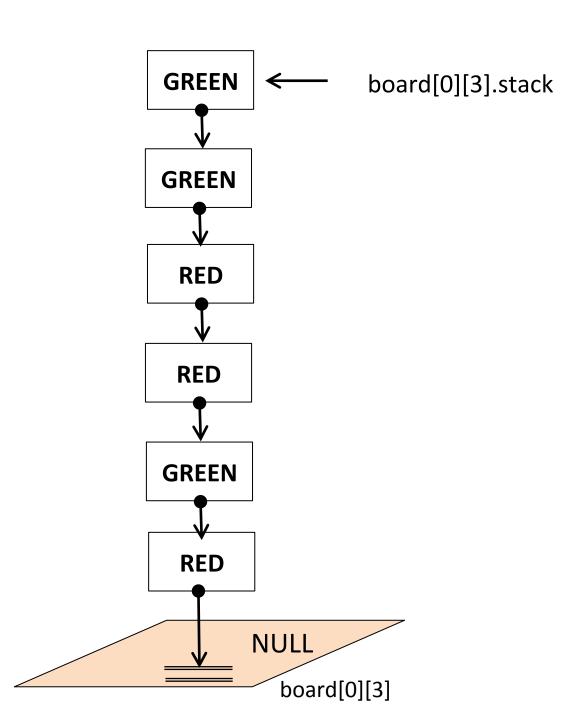


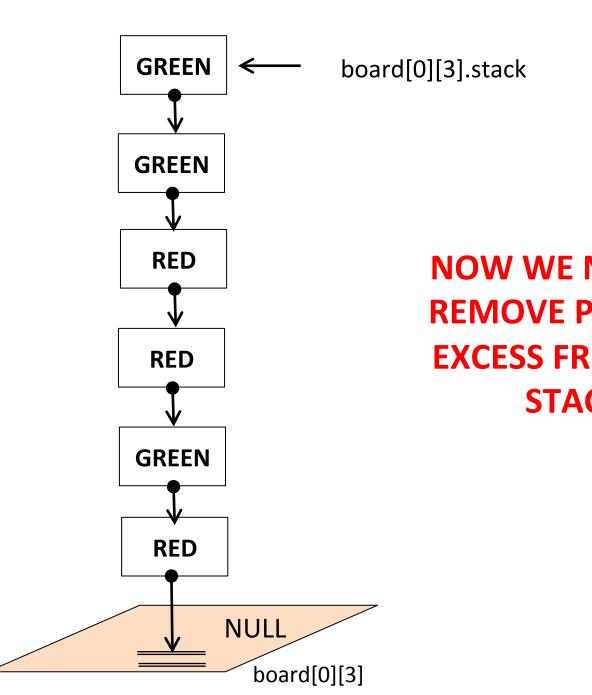




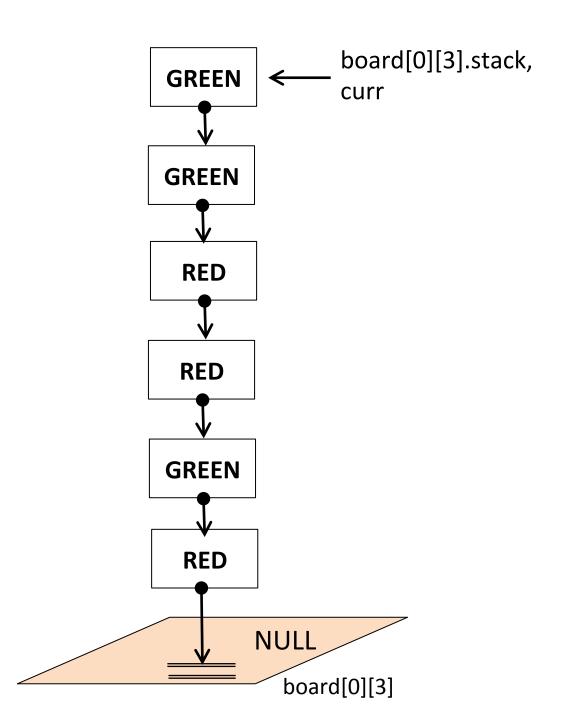




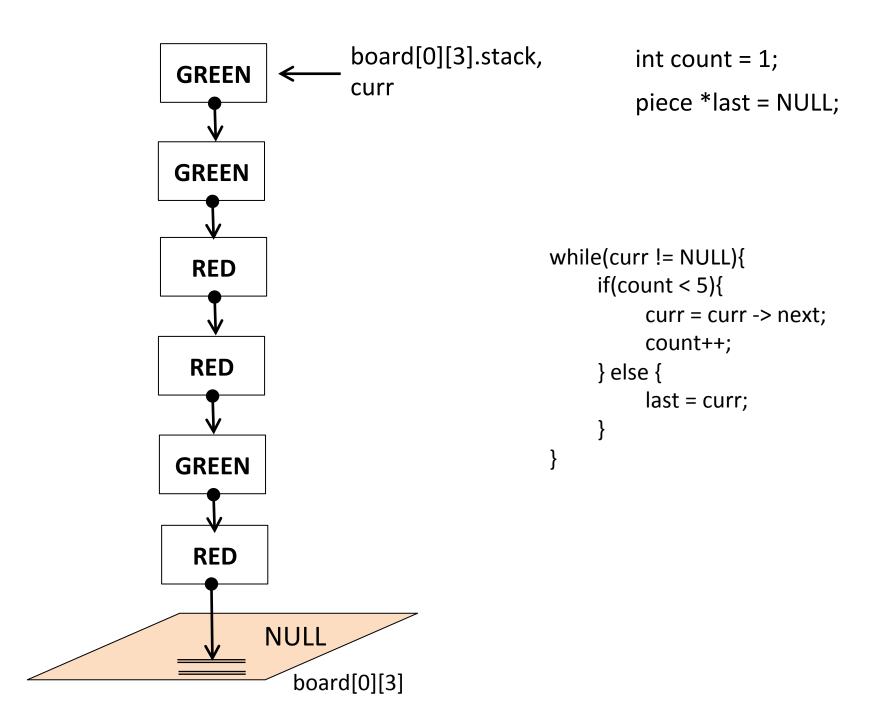


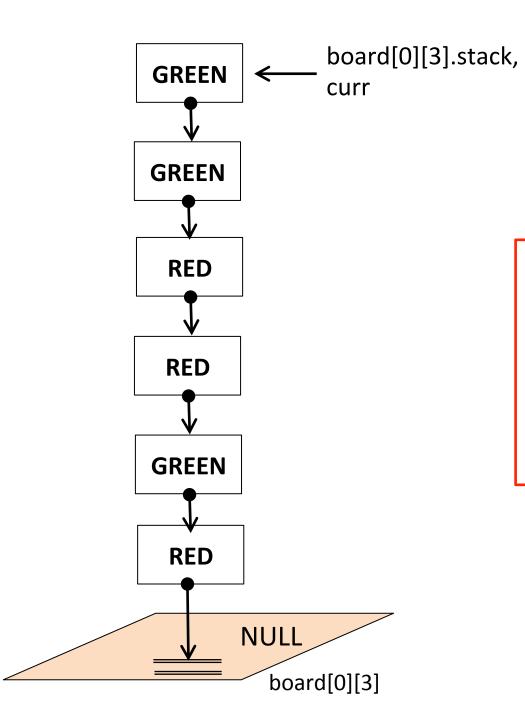


**NOW WE NEED TO REMOVE PIECES IN EXCESS FROM THE STACK** 



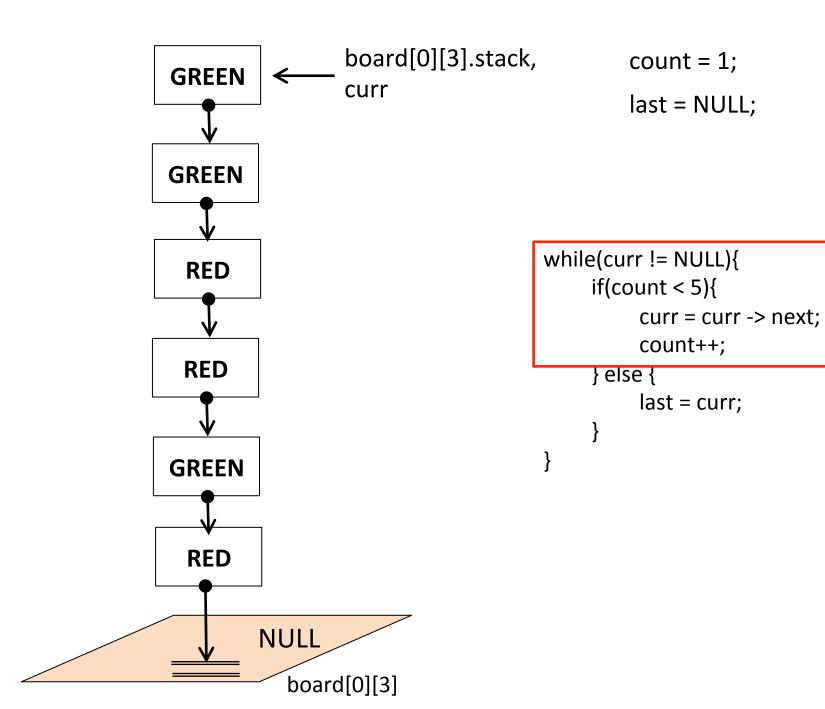
int count = 1;
piece \*last = NULL;

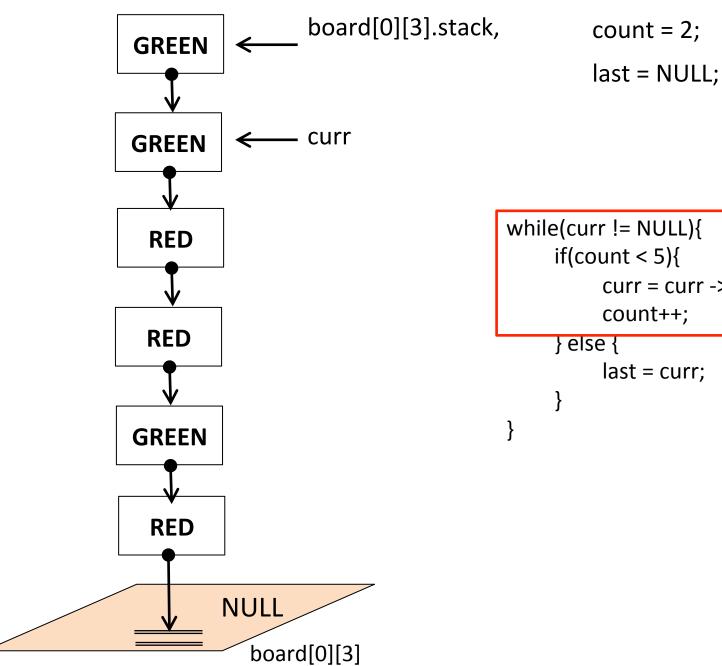




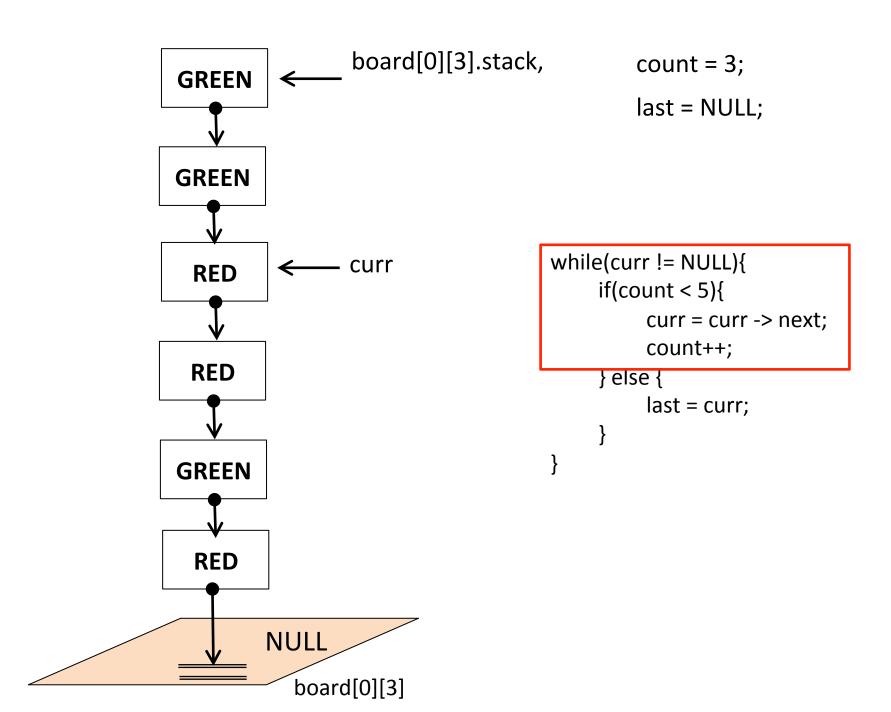
```
int count = 1;
piece *last = NULL;
```

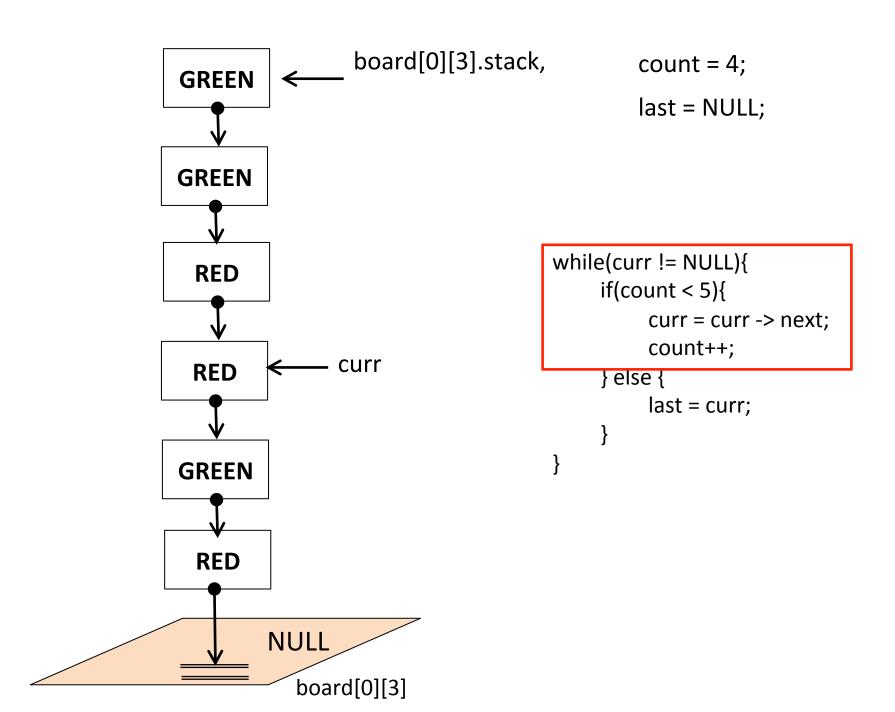
```
while(curr != NULL){
    if(count < 5){
        curr = curr -> next;
        count++;
    } else {
        last = curr;
    }
}
```

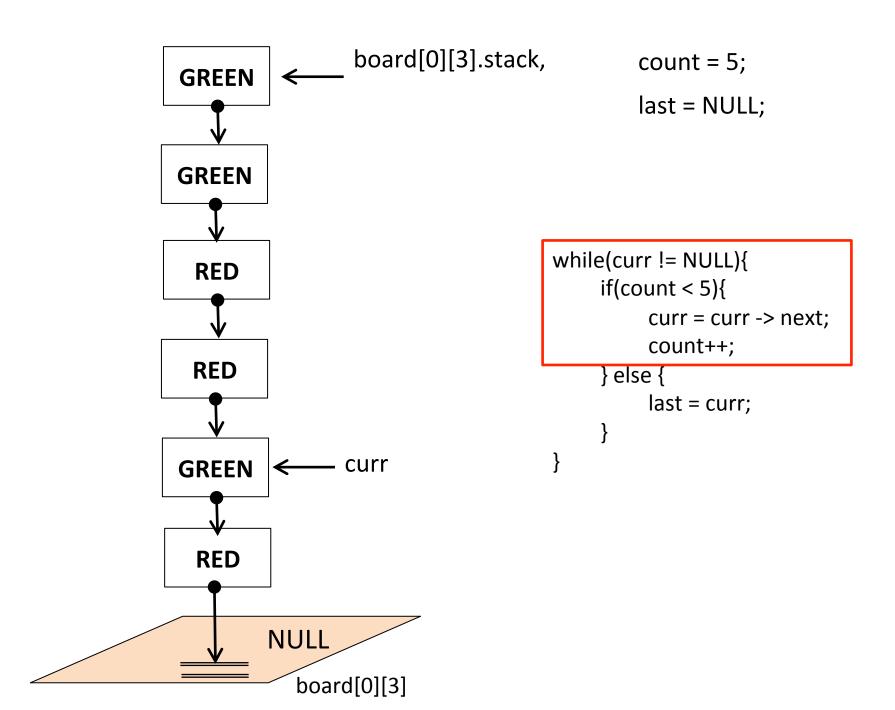


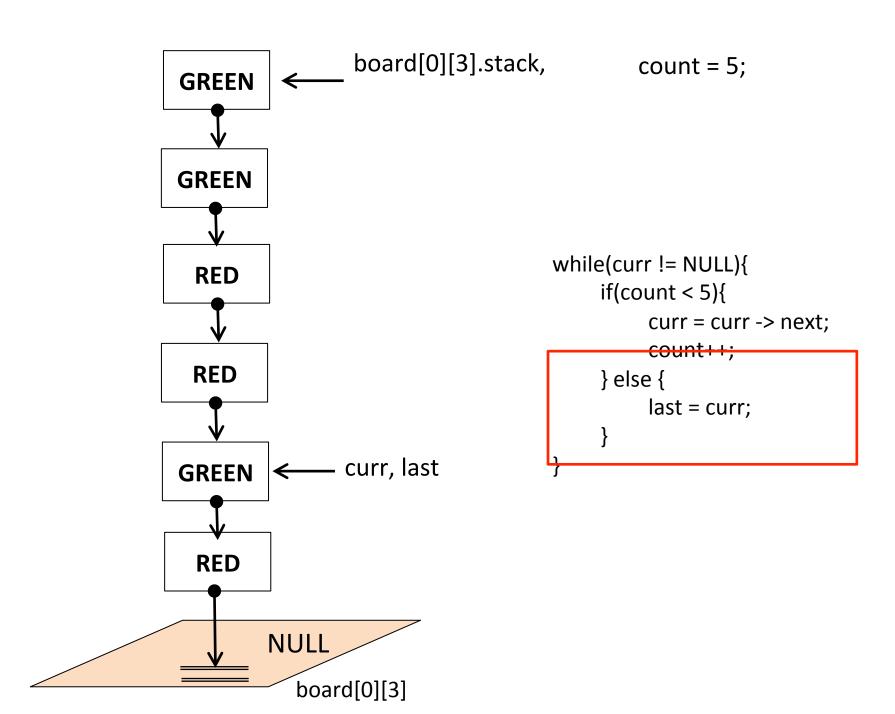


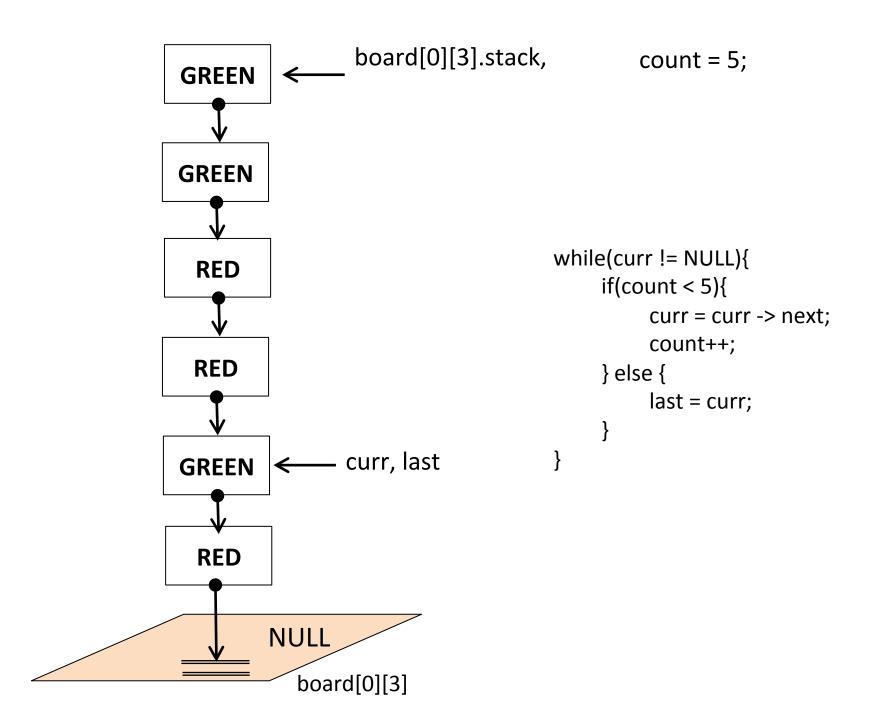
```
curr = curr -> next;
```

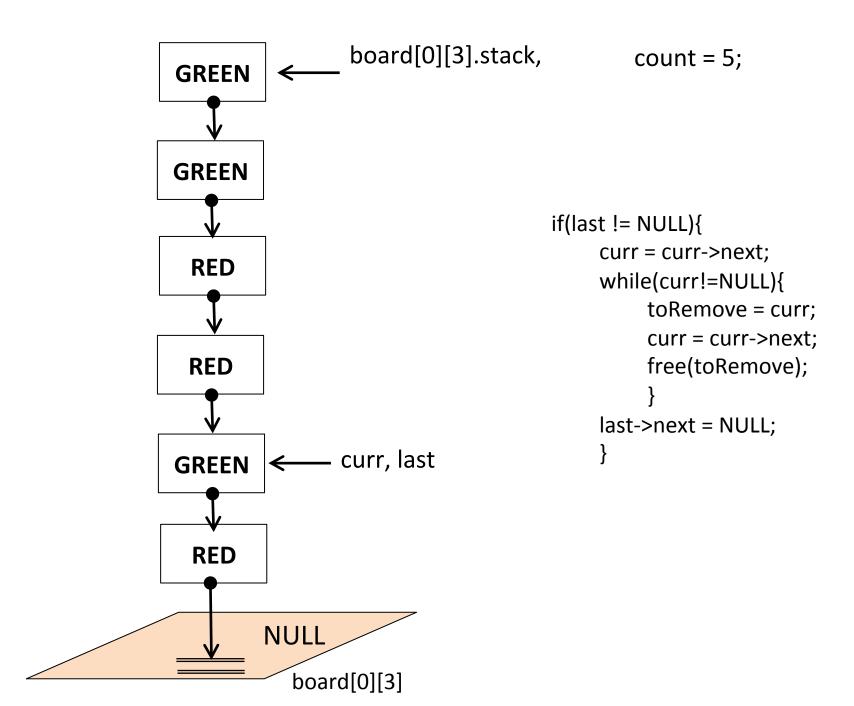








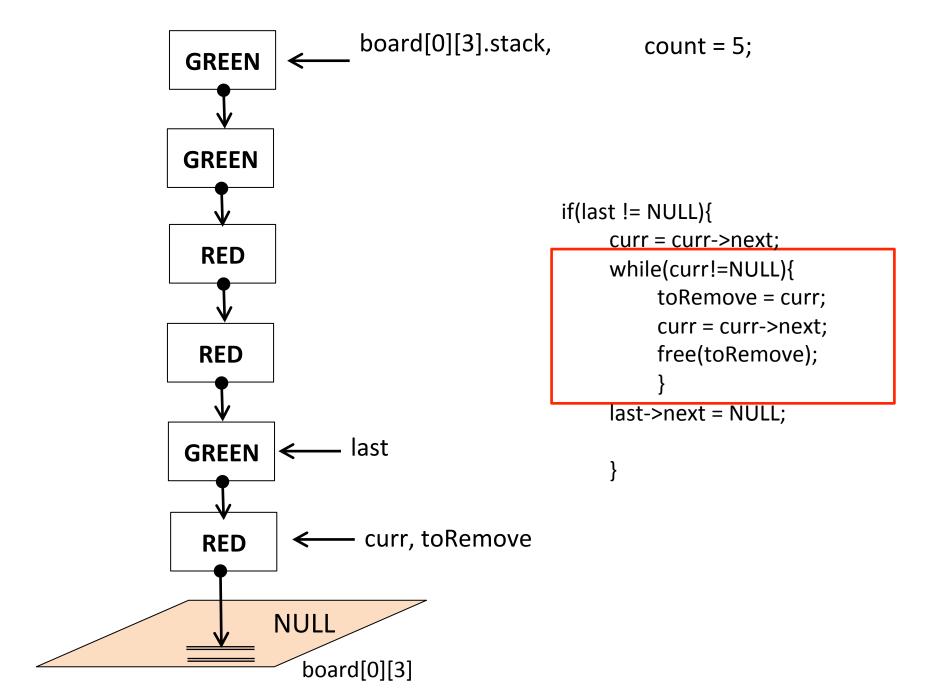




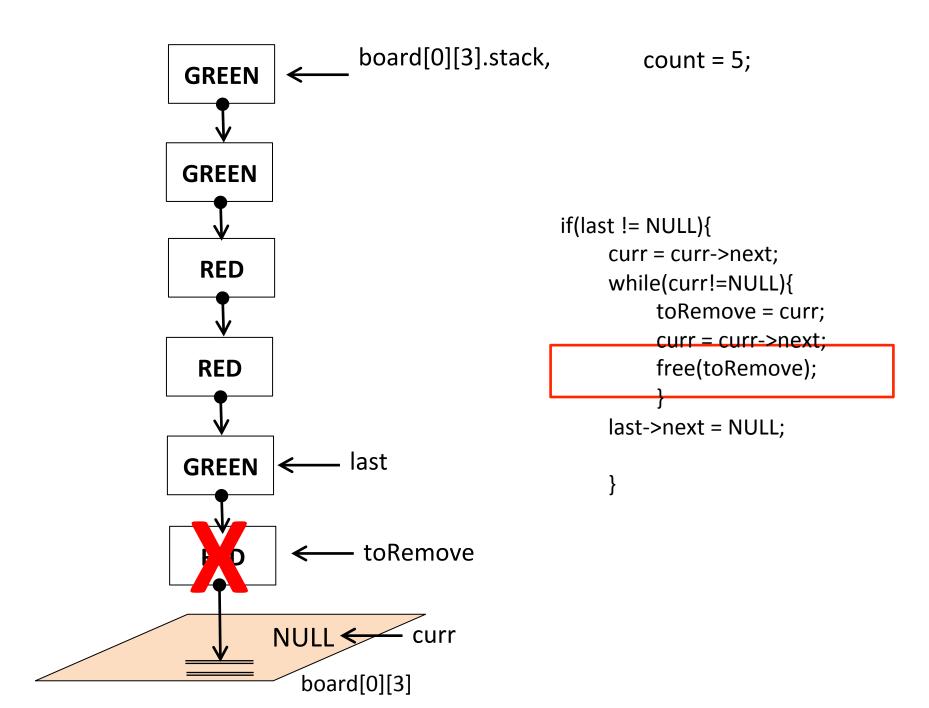
```
board[0][3].stack,
                                           count = 5;
GREEN
GREEN
                                    if(last != NULL){
                                        curr = curr->next;
 RED
                                        while(curr!=NULL){
                                             toRemove = curr;
                                             curr = curr->next;
                                             free(toRemove);
 RED
                                        last->next = NULL;
              curr, last
GREEN
 RED
        NULL
           board[0][3]
```

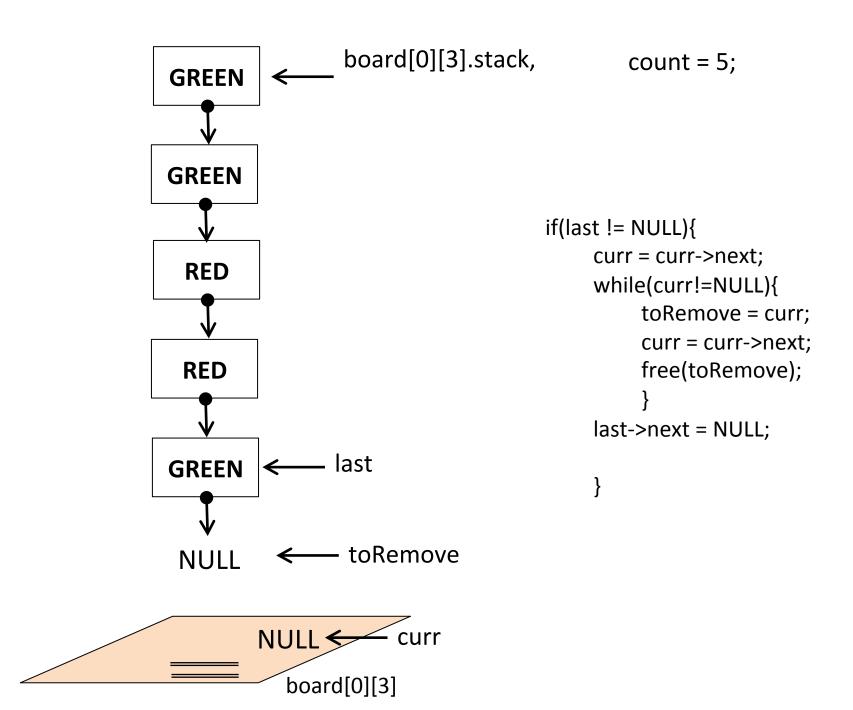
```
board[0][3].stack,
                                            count = 5;
GREEN
GREEN
                                    if(last != NULL){
                                         curr = curr->next;
 RED
                                         while(curr!=NULL){
                                             toRemove = curr;
                                             curr = curr->next;
                                             free(toRemove);
 RED
                                         last->next = NULL;
                last
GREEN
 RED
                 curr
        NULL
           board[0][3]
```

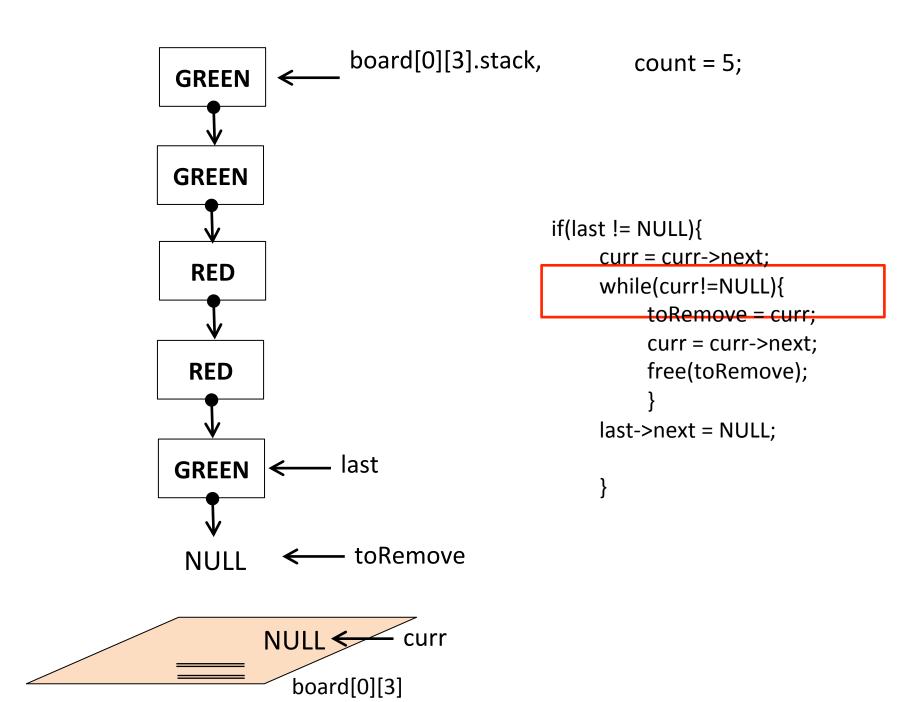
```
board[0][3].stack,
                                            count = 5;
GREEN
GREEN
                                    if(last != NULL){
                                         curr = curr->next;
 RED
                                        while(curr!=NULL){
                                             toRemove = curr;
                                             curr = curr->next;
                                             free(toRemove);
 RED
                                         last->next = NULL;
                last
GREEN
 RED
                 curr
        NULL
           board[0][3]
```

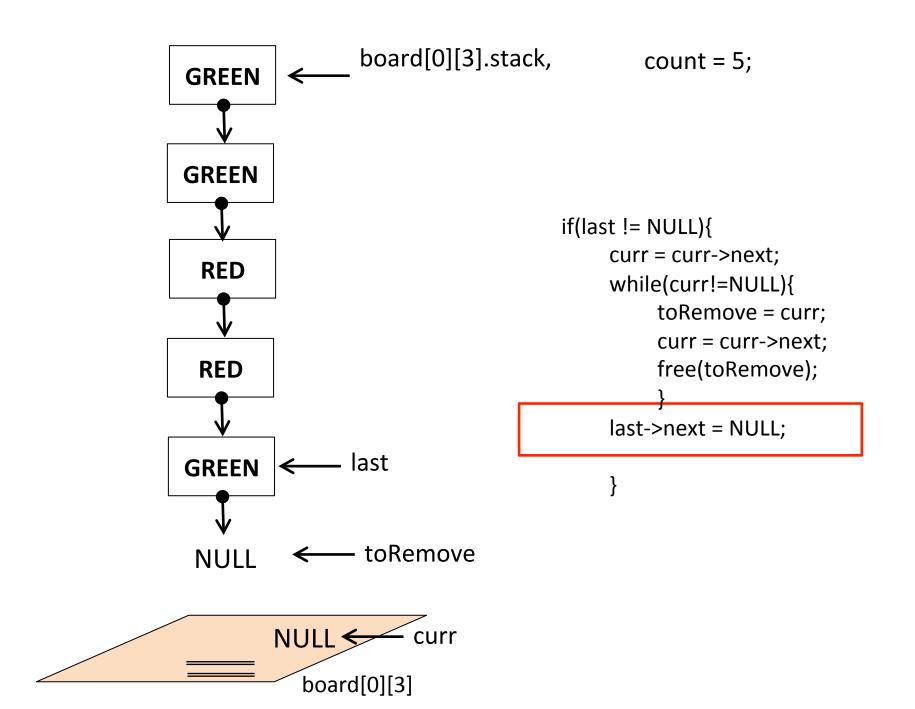


```
board[0][3].stack,
                                             count = 5;
GREEN
GREEN
                                     if(last != NULL){
                                          curr = curr->next;
 RED
                                          while(curr!=NULL){
                                               toRemove = curr;
                                               curr = curr->next;
                                               free(toRemove);
 RED
                                          last->next = NULL;
                last
GREEN
                  toRemove
 RED
        NULL <del>←</del>
           board[0][3]
```

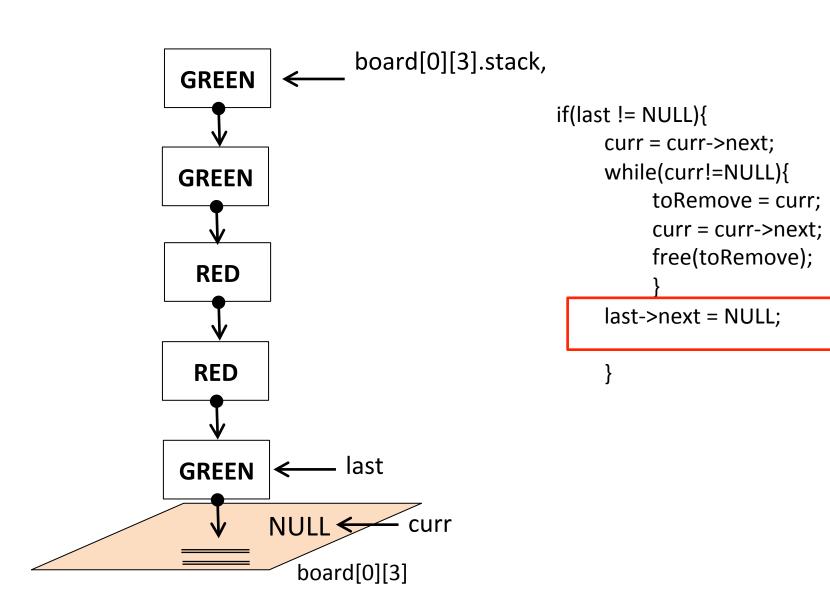








```
count = 5;
```



## Recap

- String manipulation in C
- How to merge one stack on top of another in the Focus game
- How to remove pieces in excess from the stack.