QUIZ1

1

```
bool isPalindrome(List L){
  List copyL = copyList(L);
    // Store the curosr location
    int origin = index(L);
    moveFront(L);
    moveBack(copyL);
    while(index(L) >= 0 && index(copyL) >= 0){
        int x = get(L);
        int copyX = get(copyL);
        if(x != copyX){
            return false;
        }
        moveNext(L);
        movePrev(copyL);
    }
    freeList(L);
    // Recover the curosr location
    moveFront(L);
    while(index(L) != origin){
        moveNext(L);
    }
    return true;
}
```

2

```
void Replace(List L, int x, int y){
    // Store the curosr location
    int origin = index(L);
    moveFront(L);
    while(index(L) >= 0){
        int data = get(L);
        if(data == x){
            set(L, y);
            break;
        }
        moveNext(L);
    }
    // Recover the curosr location
    moveFront(L);
```

```
    while(index(L) != origin){
        moveNext(L);
    }
}
```