

## 20200123 Exercises

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### Page 2 exercise 1

```
int theRightInteger(int i1, double d1, int* iP) {  
    int result = 0;  
    // The rest of the function body  
    return result;  
}
```

### Page 2 exercise 2

```
Room* getNextRoom(LLNode* listP) {  
    Room* pointer = 0;  
    // The rest of the function body  
    return pointer;  
}
```

### Page 3 exercise 3

```
LLNode* checkList (LLNode* node, Room* roomP) {  
    LLNode* result = 0;  
    // The rest of the function body  
    return result;  
}
```

### Page 3 exercise 1

- Regular date to test
- Ending points of year (Jan 1, Dec 31)
- Leap Year
- Day that doesn't exist (Feb 31)
- Impossible Date (Dec 40)
- 9 day stretch

### Page 4 exercise 2

- Cell dying
- Cell coming back to life
- Cell staying dead
- Cells dying due to cells coming back to life

### Page 5 exercise 1

- Simple division
- Complex division
- Division by 0
- Division of 0
- Division 0/0

- Division of negatives

## **Page 5 exercise 2**

- Test all products (use absolute max price)
- Test no products (use \$0)
- test invalid product
- communication issues
- filter for current location

## **Page 5 exercise 3**

- Prototype goes in tests.h
- implementation goes in tests.c
- test suit invoked in main.c
- individual tests invoked in tests.c