MIDTERM

Overview:

My program is an inventory management simulator. There are 4 main actions: adding a stackable item, adding a non stackable item, removing items, and displaying your inventory. After your inventory is full, it prompts you to choose an item to select/equip.

List of Concepts Used:

- Data types and data size
- File types
- Arrays
- A binary search algorithm
- Use of strings
- File I/O
- At least two classes

Screenshots of Running Program:

C:\Users\logan\source\repos\Midtermagain\x64\Debug\Midtermagair

```
1.add a stackable
2.add a nonstackable
3.remove an item
4.display inventory
1
what item would you like to add?apple
how many?2
2 apples have been added.

1.add a stackable
2.add a nonstackable
3.remove an item
4.display inventory
2
what item would you like to add?sword
The sword has been added.

1.add a stackable
2.add a nonstackable
3.remove an item
4.display inventory
3
which slot is the item you want to remove in?
2
sword has been removed

1.add a stackable
2.add a nonstackable
3.remove an item
4.display inventory
1
what item would you like to add?apple
how many?2
same item detected
2 apples have been added.

1.add a stackable
2.add a nonstackable
3.remove an item
4.display inventory
4
apple, Qty: 4

Items in inventory: 1

1.add a stackable
2.add a nonstackable
3.remove an item
4.display inventory
```

record.txt - Notepad

File Edit Format View Help

```
apple 2 has been added.
The sword has been added.
sword has been removed.
apple 2 has been added.
The sword has been added.
The axe has been added.
```

```
1.add a stackable
2.add a nonstackable
3.remove an item
4.display inventory
2
what item would you like to add?sword
The sword has been added.

1.add a stackable
2.add a nonstackable
3.remove an item
4.display inventory
2
what item would you like to add?axe
The axe has been added.
your items will now be sorted alphabetically.
apple, Qty: 4

axe, Qty: 1

sword, Qty: 1

what item would you like to select? (type in the correct name to find which slot your item is in)axe
Your item is in slot 2
```

Challenges:
- I've had a fever for the last 2 days.
- Working around the vector subscript out of range error was tricky, I sometimes used plug and chug, sometimes just had to think about it.