

Captain Daryani  
Assignment 2

**Question 1 - Single Linked List:**

Make sure you are in the Assignment2Q1 directory:  
You may need to run

```
cd Assignment2  
cd Assignment2Q1
```

to get to the correct directory.

To run the program, run the following compile command:  
`g++ -o main main.cpp Item_Type.cpp Single_Linked_List.cpp`

Followed by this command to run Assignment 2 Question 1:  
`./main`

Sample Output:

```
Item pushed to front  
[1, ]  
Item pushed to front  
[6, 1, ]  
Item pushed to front  
[0, 6, 1, ]  
Item pushed to back  
[0, 6, 1, 2, ]  
Item pushed to back  
[0, 6, 1, 2, 9, ]  
Item pushed to back  
[0, 6, 1, 2, 9, 7, ]  
Front item: 0  
Back item: 7  
Item removed from front  
[6, 1, 2, 9, 7, ]  
Item removed from back  
[6, 1, 2, 9, ]  
[6, 1, 7, 2, 9, ]  
Item with value 7 was inserted at index 2  
Item removed from index: 3  
[6, 1, 7, 9, ]  
Index of item with value 7: 2  
List emptied  
[]
```

## **Question 2 - Employees:**

Make sure you are in the Assignment2Q2 directory:

You may need to run

```
cd Assignment2  
cd Assignment2Q2
```

to get to the correct directory.

To run the program, run the following compile command:

```
g++ -o main main.cpp
```

Followed by this command to run Assignment 2 Question 2:

```
./main
```

Sample Output:

```
Professional's weekly salary: $961.54  
Professional's vacation days left: 8.00  
Professional's weekly healthcare contributions: $24.04  
Nonprofessional's weekly salary: $585.00  
Nonprofessional's vacation days left: 4.72  
Nonprofessional's weekly healthcare contributions: $0.00
```