

Part 1: Single_Linked_List Class:

How to run code: Click "Local Windows Debugger" in Visual Studio

```
List is empty?: 1
```

```
Pushing front/back various values (see code)
```

```
Current List:
```

```
10
```

```
40
```

```
50
```

```
30
```

```
20
```

```
0
```

```
Num items: 6
```

```
Find Position of Value 15: 6
```

```
Removal of index 0 sucessful?: 1
```

```
Current List:
```

```
40
```

```
50
```

```
30
```

```
20
```

```
0
```

```
Num items: 5
```

Removal of index 5 sucessful?: 0

Current List:

40
50
30
20
0

Num items: 5

Find position of value 0: 4
Find position of value 40: 0
Find position of value 30: 2

List is empty?: 0

Pop back called
Pop front called
Pop front called

Current List:

30
20

Pop back called

Pop back called

Current List:

List is empty?: 1

Removal of index 0 sucessful?: 0

Called insert with value 19 and index 0

Current List:

19

Front of list: 19

Back of list: 19

Called insert with value 20 and index 1

Current List:

19

20

Called insert with value 21 and index 50

Current List:

19
20
21

Called insert with value 16 and index 1

Current List:

19
16
20
21

Called insert with value 33 and index 3

Current List:

19
16
20
33
21

Removal of index 2 successful?: 1

Current List:

19

16

33

21

Front of list: 19

Back of list: 21

Creating String List

Pushing back string 'Shree'

Current List:

Shree

Pushing front string 'Satoru'

```
Current List:
Satoru
Shree

Calling pop front
Calling pop back

Current List:

Calling pop back

ERROR: Cannot delete node-- list is empty

C:\Users\13146\source\repos\CS303_assignment-2_singly-linked-lists\Debug\CS303_assignment-2_singly-linked-lists.exe (process 29676) exited with code 0.
To automatically close the console when debugging stops, enable the option in the Debug console window.
Press any key to close this window . . .
```

ALTERNATIVE TO FINAL CODE LINE: Calling pop front:

```
Current List:

Calling pop front

ERROR: Cannot delete node-- list is empty

C:\Users\13146\source\repos\CS303_assignment-2_singly-linked-lists\Debug\CS303_assignment-2_singly-linked-lists.exe (process 39044) exited with code 0.
```

ALTERNATIVE TO FINAL CODE LINE: Calling front():

```
Current List:
```

```
Calling front
```

```
ERROR: cannot return value-- list is empty
```

```
C:\Users\13146\source\repos\CS303_assignment-2_  
singly-linked-lists\x64\Debug\CS303_assignment-  
2_singly-linked-lists.exe (process 22856) exited  
with code 0.
```

```
To automatically close the console when debuggi
```

ALTERNATIVE TO FINAL CODE LINE: Calling back():

```
Current List:
```

```
Calling back
```

```
ERROR: cannot return value-- list is empty
```

```
C:\Users\13146\source\repos\CS303_assignment-2_  
singly-linked-lists\x64\Debug\CS303_assignment-  
2_singly-linked-lists.exe (process 12632) exited  
with code 0.
```

```
To automatically close the console when debuggi  
ng stops, enable Tools->Options->Debugging->Aut
```