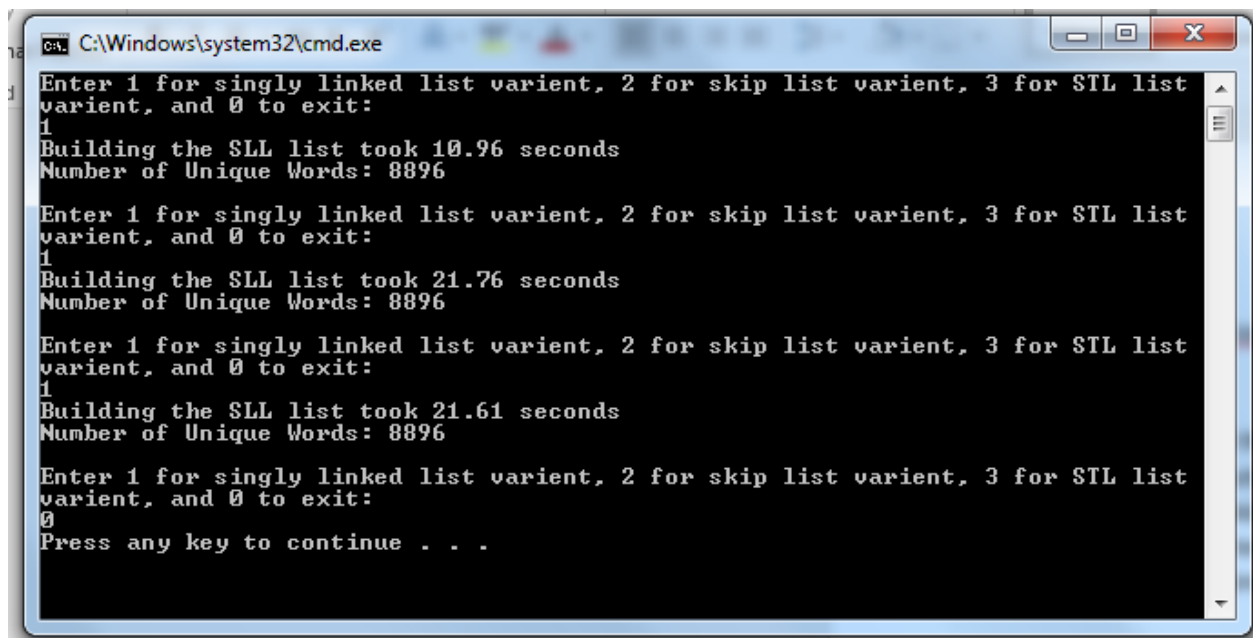
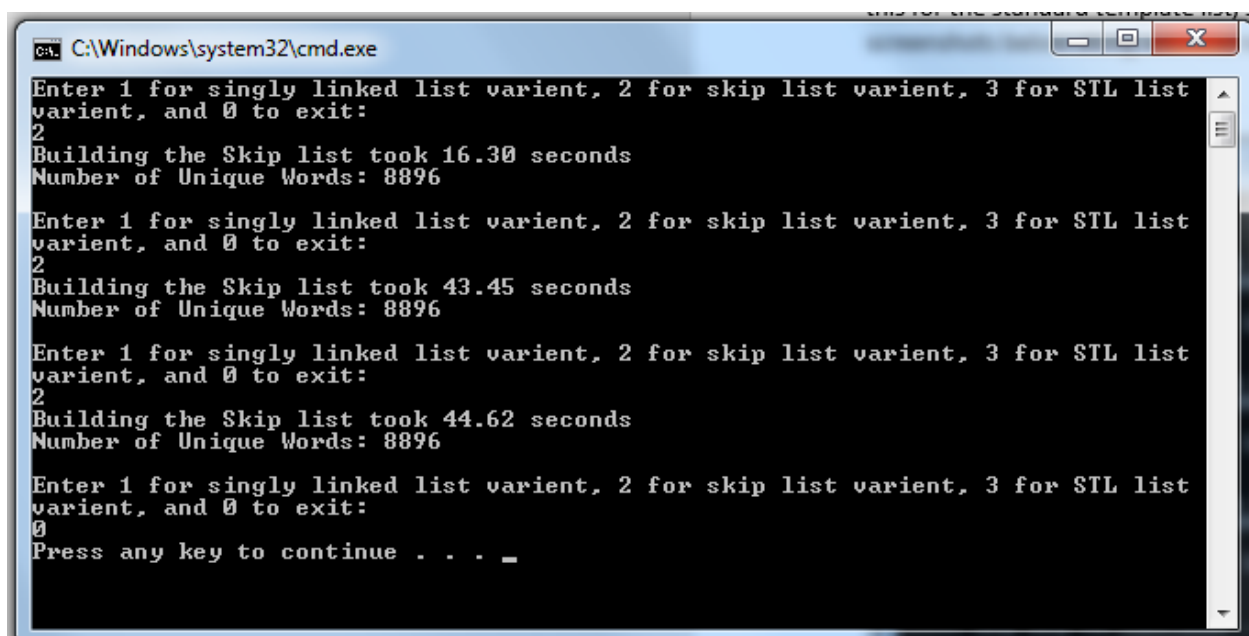


Clare Minnerath

The program allows the user to choose which variant of List we should enter the poem into. We then called the correct function which timed entering the words of the poem into the list. If the word was already present, we didn't add it to the list. Instead we incremented the frequency of that word. We did this for the standard template list, singly linked list, and the Skip list. Our times are shown in the screenshots below along with the number of unique words in the poem. We ran each 3 times through each test.



```
C:\Windows\system32\cmd.exe
Enter 1 for singly linked list variant, 2 for skip list variant, 3 for STL list
variant, and 0 to exit:
1
Building the SLL list took 10.96 seconds
Number of Unique Words: 8896
Enter 1 for singly linked list variant, 2 for skip list variant, 3 for STL list
variant, and 0 to exit:
1
Building the SLL list took 21.76 seconds
Number of Unique Words: 8896
Enter 1 for singly linked list variant, 2 for skip list variant, 3 for STL list
variant, and 0 to exit:
1
Building the SLL list took 21.61 seconds
Number of Unique Words: 8896
Enter 1 for singly linked list variant, 2 for skip list variant, 3 for STL list
variant, and 0 to exit:
0
Press any key to continue . . .
```



```
C:\Windows\system32\cmd.exe
Enter 1 for singly linked list variant, 2 for skip list variant, 3 for STL list
variant, and 0 to exit:
2
Building the Skip list took 16.30 seconds
Number of Unique Words: 8896
Enter 1 for singly linked list variant, 2 for skip list variant, 3 for STL list
variant, and 0 to exit:
2
Building the Skip list took 43.45 seconds
Number of Unique Words: 8896
Enter 1 for singly linked list variant, 2 for skip list variant, 3 for STL list
variant, and 0 to exit:
2
Building the Skip list took 44.62 seconds
Number of Unique Words: 8896
Enter 1 for singly linked list variant, 2 for skip list variant, 3 for STL list
variant, and 0 to exit:
0
Press any key to continue . . .
```

```
C:\Windows\system32\cmd.exe
Enter 1 for singly linked list variant, 2 for skip list variant, 3 for STL list
variant, and 0 to exit:
3
Building the STL list took 17.95 seconds
Number of Unique Words: 8896

Enter 1 for singly linked list variant, 2 for skip list variant, 3 for STL list
variant, and 0 to exit:
3
Building the STL list took 17.95 seconds
Number of Unique Words: 8896

Enter 1 for singly linked list variant, 2 for skip list variant, 3 for STL list
variant, and 0 to exit:
3
Building the STL list took 18.14 seconds
Number of Unique Words: 8896

Enter 1 for singly linked list variant, 2 for skip list variant, 3 for STL list
variant, and 0 to exit:
0
Press any key to continue . . .
```

The above were the Debug version.

The below are from the release version.

```
C:\Windows\system32\cmd.exe
Enter 1 for singly linked list variant, 2 for skip list variant, 3 for STL list
variant, and 0 to exit:
1
Building the SLL list took 0.21 seconds
Number of Unique Words: 8896

Enter 1 for singly linked list variant, 2 for skip list variant, 3 for STL list
variant, and 0 to exit:
1
Building the SLL list took 0.41 seconds
Number of Unique Words: 8896

Enter 1 for singly linked list variant, 2 for skip list variant, 3 for STL list
variant, and 0 to exit:
1
Building the SLL list took 0.41 seconds
Number of Unique Words: 8896

Enter 1 for singly linked list variant, 2 for skip list variant, 3 for STL list
variant, and 0 to exit:
0
Press any key to continue . . .
```

```
C:\Windows\system32\cmd.exe

Enter 1 for singly linked list variant, 2 for skip list variant, 3 for STL list
variant, and 0 to exit:
2
Building the Skip list took 0.70 seconds
Number of Unique Words: 8896

Enter 1 for singly linked list variant, 2 for skip list variant, 3 for STL list
variant, and 0 to exit:
2
Building the Skip list took 1.59 seconds
Number of Unique Words: 8896

Enter 1 for singly linked list variant, 2 for skip list variant, 3 for STL list
variant, and 0 to exit:
2
Building the Skip list took 1.58 seconds
Number of Unique Words: 8896

Enter 1 for singly linked list variant, 2 for skip list variant, 3 for STL list
variant, and 0 to exit:
0
Press any key to continue . . .
```

```
C:\Windows\system32\cmd.exe

Enter 1 for singly linked list variant, 2 for skip list variant, 3 for STL list
variant, and 0 to exit:
3
Building the STL list took 0.20 seconds
Number of Unique Words: 8896

Enter 1 for singly linked list variant, 2 for skip list variant, 3 for STL list
variant, and 0 to exit:
3
Building the STL list took 0.20 seconds
Number of Unique Words: 8896

Enter 1 for singly linked list variant, 2 for skip list variant, 3 for STL list
variant, and 0 to exit:
3
Building the STL list took 0.20 seconds
Number of Unique Words: 8896

Enter 1 for singly linked list variant, 2 for skip list variant, 3 for STL list
variant, and 0 to exit:
0
Press any key to continue . . .
```