

Compilation

```
james-imac:program AcousticTime$ g++ -c ClassInfo.cpp
james-imac:program AcousticTime$ g++ -c Counter.cpp
james-imac:program AcousticTime$ g++ -o program3a program3a.cpp ClassInfo.o Counter.o
```

Program 1B

```
james-imac:Program2A AcousticTime$ ./program3a
Enter the file name to count lines from: program1b.cpp

Program Name: program1b

Class Name: Input
Method Count: 3
Class Line Count: 51

program1b Master Count: 76
```

Program 2A

```
james-imac:Program2A AcousticTime$ ./program3a
Enter the file name to count lines from: program2a.cpp

Program Name: program2a

Class Name: Counter
Method Count: 2
Class Line Count: 33

program2a Master Count: 46
```

Program 3A

```
james-imac:program AcousticTime$ ./program3a
Enter the file name to count lines from: program3a.cpp

Program Name: program3a

Class Name: Counter
Method Count: 6
Class Line Count: 138

Class Name: ClassInfo
Method Count: 4
Class Line Count: 37

program3a Master Count: 189
```

Results Table

Program #	Object Name	# of Methods	Object LOC	Total Prog LOC
1B	Input	3	51	
				76
2A	Counter	2	33	
				46
3A	Counter	6	138	
	ClassInfo	4	37	
				189

Pseudo Code

Main Program

- create Count object
- pass it program filename
- count method called
- display report

Count Lines Method - Recursive

- create new ClassInfo Object
 - add name of current class to object – extension
- count lines and store result in ClassInfo Object
- count methods and store result in ClassInfo Object
- add ClassInfo object to vector
- search for classes and store each name in local vector
- for each class found,
 - run count lines method with new name which repeats above recursively