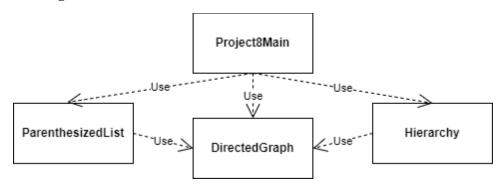
Project 4 Test Report

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Part 1: UML Diagram



Here, the main project class uses all of the class documents. Additionally, the hierarchy and parenthesized list classes utilize the directed graph class, as that is where the DFSActions interface is defined.

Part 2: Test Results

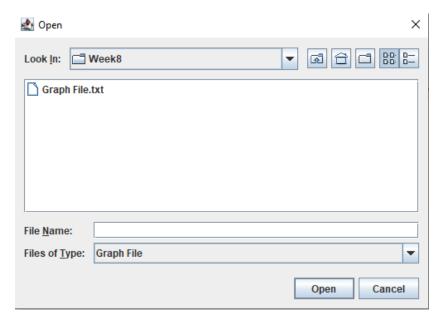


Figure 1. JFileChooser

```
< terminated \gt{Project8Main[Java~Application]~C:\Users\pc\pc]\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_6}
Unreachable vertices: ClassI
ClassA(ClassC * ClassE(ClassB(ClassD ClassG )ClassF ClassH )ClassJ(ClassB(ClassD ClassG )))
Unreachable vertices: ClassI
ClassA
      ClassC *
      ClassE
            ClassB
                  ClassD
                  ClassG
            ClassF
            ClassH
      ClassJ
            ClassB
                  ClassD
                  ClassG
Completed
```

Figure 2. Output from Project 4-provided Input

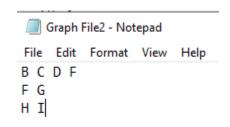


Figure 3. Input 2 File

```
Console X Problems Debug

Console X Problems
```

Figure 4. Input 2's Output

```
Vince Chable vertices:
A(B C(B ))

Unreachable vertices:
A
B
C
B
Completed
```

Figure 5. Input 3 File and Output

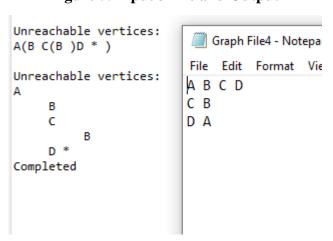


Figure 6. Input 4 File and Output

Test Table				
Test	Inputs	What is it	Output	Pass/Fail
Case		testing?		
No.				
1	Runs the code	JFileChooser	JFileChooser	Pass
		works correctly	worked correctly	
2	ClassA ClassC ClassE ClassJ	Testing against the	Figure 2	Pass
	ClassB ClassD ClassG	project document-		
	ClassC ClassA	provided inputs to		
	ClassE ClassB ClassF ClassH	see if the code		
	ClassJ ClassB	produces the same		
	ClassI ClassC	results		
3	BCDF	Testing for	Figure 4	Pass
	FG	unreachable		
	ні	vertices		
4	ABC	Testing logic for	Figure 5	Pass
	СВ	circular		
		dependencies as		
		well as NO		
		unreachable		
		vertices		
5	ABCD	Testing logic for	Figure 6	Pass
	СВ	circular		
	DA	dependencies		

Part 3: Lessons Learned

This was the hardest project, but also the one I felt most confident with. I think I've finally figured out the alternative LinkedList approach, though the logic still gets hazy sometimes. I think I wished we used the library functions for ArrayList and LinkedList more, but I'm not mad about it, as during the test process, I created a lot of library-provided lists and tested those to ensure what I was doing was working!