

### CSC 357 Program 3 Test Plan

This is an input/output test plan for programming assignment 3. In this plan, there are no input data files. Rather, each input is in the form of `dir` command, the output of which is redirected by the testing script to a file.

The listed "`cd`" commands are not considered test cases. They are the means to provide a directory context for executing the cases that follow. The testing script records the path of the `dir` executable program, so it can be consistency located when the working directory changes during script execution.

Note that the raw score totals 120 points possible. The online copy of the writeup has been adjusted accordingly.

Case	Command	Output File	Remarks	Points
	<code>cd ~gfisher/classes/357</code>			
1	<code>dir</code>	<code>dir.out</code>	default format	8
2	<code>dir ~gfisher/classes/357</code>	<code>dir2.out</code>	same as case 1	5
	<code>cd ~gfisher/classes/357/programs/3/testing</code>			
3	<code>dir plan.pdf</code>	<code>dir-plan.out</code>	a single file	3
4	<code>dir *</code>	<code>dir-star.out</code>	all non-dot files	3
5	<code>dir -ad</code>	<code>dir-ad.out</code>	just dirs	3
6	<code>dir -ar</code>	<code>dir-ar.out</code>	just read only	3
7	<code>dir -a^d</code>	<code>dir-a^d.out</code>	all but dirs	3
8	<code>dir -a^r</code>	<code>dir-a^d.out</code>	all but read only	3
9	<code>dir -b</code>	<code>dir-b.out</code>	bare format	3
10	<code>dir -c</code>	<code>dir-c.out</code>	same as default	3
11	<code>dir -^c</code>	<code>dir-^c.out</code>	no 1000's commas	3
12	<code>dir -bc</code>	<code>dir-bc.out</code>	same as just <code>-b</code>	3
13	<code>dir -on</code>	<code>dir-on.out</code>	same as default	3
14	<code>dir -oe</code>	<code>dir-oe.out</code>	sorted by extension	3
15	<code>dir -og</code>	<code>dir-og.out</code>	sorted dirs first	3
16	<code>dir -os</code>	<code>dir-os.out</code>	sorted by size	3
17	<code>dir -od</code>	<code>dir-o^d.out</code>	sorted by date	3
18	<code>dir -o^n</code>	<code>dir-o^n.out</code>	reverse <code>-on</code>	3
19	<code>dir -o^e</code>	<code>dir-o^e.out</code>	reverse <code>-oe</code>	3
20	<code>dir -o^g</code>	<code>dir-o^g.out</code>	reverse <code>-og</code>	3
21	<code>dir -o^s</code>	<code>dir-o^s.out</code>	reverse <code>-os</code>	3
22	<code>dir -o^d</code>	<code>dir-o^d.out</code>	reverse <code>-od</code>	3
23	<code>dir -q</code>	<code>dir-q.out</code>	display owner	3
24	<code>dir -s</code>	<code>dir-s.out</code>	recursive all subdirs	8
25	<code>dir -sb</code>	<code>dir-sb.out</code>	recursive bare	3
26	<code>dir -tc</code>	<code>dir-tc.out</code>	display create time	3
27	<code>dir -ta</code>	<code>dir-ta.out</code>	display access time	3
28	<code>dir -tw</code>	<code>dir-tw.out</code>	display write (modify) time	3
29	<code>dir -w</code>	<code>dir-w.out</code>	wide format	5
30	<code>dir -ws</code>	<code>dir-ws.out</code>	wide recursive	3
31	<code>dir -wsb</code>	<code>dir-wsb.out</code>	wide bare recursive	3
32	<code>dir -w -s -b</code>	<code>dir-w-s-b.out</code>	same as <code>-wsb</code>	3
33	<code>dir -wsb -o^n</code>	<code>dir-wsb-o^n.out</code>	reverse of <code>-wsb</code>	3
34	<code>dir -^4</code>	<code>dir-^4.out</code>	two-digit year	3
	<code>cd ../..</code>			
35	<code>dir -s</code>	<code>dir-s.out</code>	longer display	4

(See Notes on next page.)

**Notes:**

1. For the purposes of the `-ar` option, a read-only file is defined as one that is writable by no one, including the owner.
2. You can assume a display width of 80 columns for the purposes of the `-w` option.
3. The `-wsb` combination of options flattens the entire recursive listing, sorts by the default or specified sorting option, and prefixes each file name with the full path. Note that name sorting does not use the path-prefixed filename, but the root filename.
4. Even though it appears not to work on Windows XP, the meaning of the `-^4` option is to print years using two digits instead of four.