Name:	
SBID:	
Grader	
General Comments:	

	Max	Actual	Comments
Compilation	**10**	**0**	
Your code should compile cleanly in the system without any warnings (using gcc -Wall -Werror). Points will be deducted for serious warnings/errors that prevent compilation or proper running of program. Possible (but not all) demerits: deduct 1-2 points for every warning/error.			
Compiles cleanly on class VM (Ubuntu 18)	10	0	
Coding to specifications	**20**	**0**	
All library calls have return/error values checked (including malloc). Errors are reported.	5	0	
All system calls have checked return values. Errors are reported.	5	0	
Preconditions are checked with stat, lstat, statfs, access, etc.	5	0	
Properly handling pointers, freeing allocated memory, closing file descriptors, and other cleanup.	5	0	
Miscellaneous	**10**	**0**	
Good commenting and style. Possible (but not all) deductions: commenting but not enough, no commenting, poor style, inconsistent style, poor indentation, no indentation.	3	0	
README: Describe what you did and how. Mention any special thing of note.	2	0	
Test scripts	3	0	
Makefile: proper dependencies to build each object if needed. Uses -Wall -Werror. Include targets for cleaning, running tests, building code with EC if you're doing any EC.	2	0	
Functionality (points based on testing)	**60**	**0**	
Note if a program doesn't compile, try to compile it without -Wall -Werror so that a binary might be produced for testing.			
General Functionality	**12**	**0**	
shell built in commands "echo", "pwd", "cd", "exit" (etc.) work	8	0	
programs can be launched and executed (searched in $PATH)	4	0	
Job Control Support	**16**	**0**	
Jobs can be put into background using "&"	3	0	
status of jobs can be checked using "jobs" (exit code of program reported properly)	3	0	

background job can be put into foreground by "fg JOB"	2	0	
foreground job can be put into background by "Ctrl-Z"	2	0	
cause suspended job to run in background using "bg JOB"	2	0	
signals can be sent to jobs using "kill -N JOB"	2	0	
check job number and job status (e.g., not "bg" a job that is already running in background)	2	0	
Redirection Support	**12**	**0**	
">" should redirect stdout properly (existing file should be overwritten)	3	0	
"2>" should redirect stderr properly (existing file should be overwritten)	3	0	
"<" should redirect stdin properly (check if file exist)	3	0	
any combination works properly ("<infile >outfile 2>errfile" etc.)	3	0	
Variables/Echo Support	**5**	**0**	
Normal variables such as $PATH, assign variables	3	0	
Support $? Variable	2	0	
Non-Interactive Support	**5**	**0**	
Support execute scripts	3	0	
Support "#" as comment	2	0	
Debug Support	**5**	**0**	
display debugging info on stderr	5	0	
Grader's discretion at any other broken functionality.	5	0	
Extra Credit (optional for undergrads, mandatory for grads)	**34**	**0**	
Support time counting	5	0	
Support pipes (10 pts for pipes, 5 pts for ^C)	15	0	
Support file "globbing"	10	0	
early submission 24 or 48 hours	4	0	
General Demerits	**0**	**0**	No upper limit to demerits
Followed GIT submission guidelines improperly	0	0	
Submission on time: deduct 1 point for every late hour (time rounded up in units of one hour)	0	0	
Other demerits (specify)		0	
Total Grade (out of 100)	**100**	**0**	
Total Extra Credit	**34**	**0**	