	ar	key archive file file 1 file 2 ~ [Mgic#]	
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		(File content)	
Con	not	( ) Alla (CS 551) Assignment 1	
		Due Monday September 26, 2016 at 10PM	**
	by m	Write a C program on Unix called "myar.c". This program will Hustrate the use of file on Unix, aintaining a Unix "archive" library, in the standard archive format.	
	wish	compiled your program should run in a manner similar to the standard Unix command "ar". You may to look at the Unix man page for "ar" for insight, however, for this assignment the following is the x your program must support:	
	myaı	key afile name	
	wher	e afile is the name of the archive file to be used, and key is one of the following options:	70/h/
	q xo t tv d	quickly append named files to archive extract named files restoring mtime print a concise table of contents of the archive print a verbose table of contents of the archive quickly append all "regular" files in the current directory  (except the archive itself)	and hit
		quickly append all "regular" files in the current directory  (except the archive itself)  rchive file maintained must use exactly the standard format defined in "/usr/include/ar.h", and in fact	
<u></u>	may the o	be tested with archives created with the "ar" command. The options listed above are compatible with options having the same name in the "ar" command The "A" command is a new option not in the usual command.	6
	Note		wx
	(1)	You may assume all files are in the current directory, no filename is longer than 15 bytes, and no	L) 1
		archive index will be attempted. You MUST NOT consult source code for other implementations of "ar".	200
	(2)	For the "q" command "myar" should create an archive file if it doesn't exist, using permissions "666".  For the other commands "myar" reports an error if the archive doesn't exist, or has the wrong format.	1
	(3)	You will have to use the system calls "stat" and "utime" to properly deal with extracting and restoring the proper timestamps. Since the archive format only allows one timestamp, store the "mtime" and use it to restore both the "atime" and "mtime" if the "o" option is specificed. Permissions should also be restored to the original value, subject to "umask" limitation.	i time.
	(4)	The "q" and "A" commands do not check to see if a file by the chosen name already exists. It simply appends the files to the end of the archive.	
retmore conventan	(5)	The "A" command saves only ordinary files and symbolic links. In the case of a symbolic link it saves the path to the ultimate destination, NOT the contents of the destination. This is different than what "q" does.	
	(6)	The "x" and "d" commands operate on the first file matched in the archive, without checking for further matches.	
	(7) 1 S	In the case of the "d" option, you will have to build a new archive file to recover the space. Do this by unlinking the original file after it is opened, and creating a new archive with the original name.	
	(8)	You are required to handle multiple file names as arguments.	
	(9)	Since file I/O is expensive, do not make more than one pass through the archive file, an issue especially relevant to the multiple delete case.	
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