Part II Shell Programming - Points: 27 (5 of 15%)

Write code for an executable shell script that will do the following actions, in the exact order given below.

Only Step Comments are Required:

Put *only* a one-line comment containing the **step number** in front of the executable code for steps 2 and greater. No other comments are needed.

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1. *[Points: 2]* Start your script with the comment line that tells the kernel to execute this script using the standard Bourne shell. Include the standard shell option that checks for undefined variables.
2. *[Points: 1]* Display the current host name of this computer. **(Remember to number all your steps!)**
3. *[Points: 1]* Change directories to your home directory.
4. *[Points: 2]* Delete recursively any directory named **`test1`**. (BONUS mark: Include an option to suppress error messages if the directory does not exist.)
5. *[Points: 1]* Create a new directory named **`test1`** in the current directory.
6. *[Points: 2]* Create a new directory named **`test2`** in the **`test1`** directory.
7. *[Points: 2]* Make subdirectory **`test2`** the current directory.
8. *[Points: 1]* Display on the screen the name of the current directory. (The display will show that you are in the **`test2`** subdirectory of the **`test1`** directory.)
9. *[Points: 1]* Put the current date into a file named **`date.txt`** in the current directory.
10. *[Points: 1]* Copy the **`date.txt`** file to a file named **`copy.txt`** in the parent directory.
11. *[Points: 1]* Rename the **`date.txt`** file to have the name **`old.txt`**.
12. *[Points: 1]* Change directories to the parent directory. (The current directory is now the **`test1`** directory.)
13. *[Points: 3]* Create a file in the current directory named **`mypasswd.txt`** that contains the first eight and last three lines of the Unix password file. (Hint: Use two simple commands to create this file.)
14. *[Points: 3]* Look for lines containing the string **`root`** in the **`mypasswd.txt`** file, and save the lines into the file **`rooters.txt`** in the **`test2`** subdirectory.
15. *[Points: 3]* Count the number of lines (only lines) in all the non-hidden files in the **`test2`** subdirectory.
16. *[Points: 2]* Display the exact message: **`It's "finished" now.`** (Make sure all the punctuation appears in the output.)

Did you read the whole test? For full marks, remember to use comments to number your steps!

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