

Individual Submission

Recursion is the programming technique that has a function call itself. One common example of recursion is the need to traverse a list; another example is parsing of strings.

Write a program that uses a recursive algorithm to display a directory structure. Here are the minimum requirements:

1. The program must be called *SETTree.exe*
2. The program must have 1 parameter – the starting directory for the displayed tree.
3. If the parameter is not present, or the directory specific does not exist, you must display an error message, a “usage” message, and quit the program.
4. The display should be as follows:
 - a. The starting directory should appear at the top of the output list
 - b. Each directory and file in the directory is listed, indented slightly from the parent
 - c. If a directory is listed, then its directories and files are listed right after it, also indented
 - d. For an example of the basic layout of the output, see the “tree” command in the Command Prompt. You do NOT have to show the solid line – indenting is sufficient to show the levels.

Please submit the full solution (less the .sdf file(s)) in a zipped folder in the appropriate D2L dropbox.

NM