

Course COMP-8567
Instructor Dr. B. Boufama
Assignment 01
Due date Saturday Feb. 5, 11.59pm

Write a C/C++ program, call it **findExt**, to find all files in a directory hierarchy, whose extensions are in the extension list provided as arguments to the program. Your program should print the whole pathnames of the found files.

Synopsis: **findExt** <extension-list> [-t target-directory]

When target-directory is missing, the working directory **.** will be the target directory

Some sample runs:

```
% findExt txt pdf
```

That is, find all files whose extensions are either txt or pdf in the directory hierarchy **.**

```
% findExt jpg -t $HOME //target directory is home directory
```

That is, find all files whose extensions is jpg in the directory hierarchy **\$HOME**

Requirement:

- You must use the system call **nftw()** that allows you to walk across a file tree. This system call will do all the recursive walk and each time it visits a file or a directory, it will call your own function (a function that you pass as a parameter). Read the manual of **nftw()** before starting your assignment.

Notes: assignments should be uploaded to Blackboard