Exercise 10

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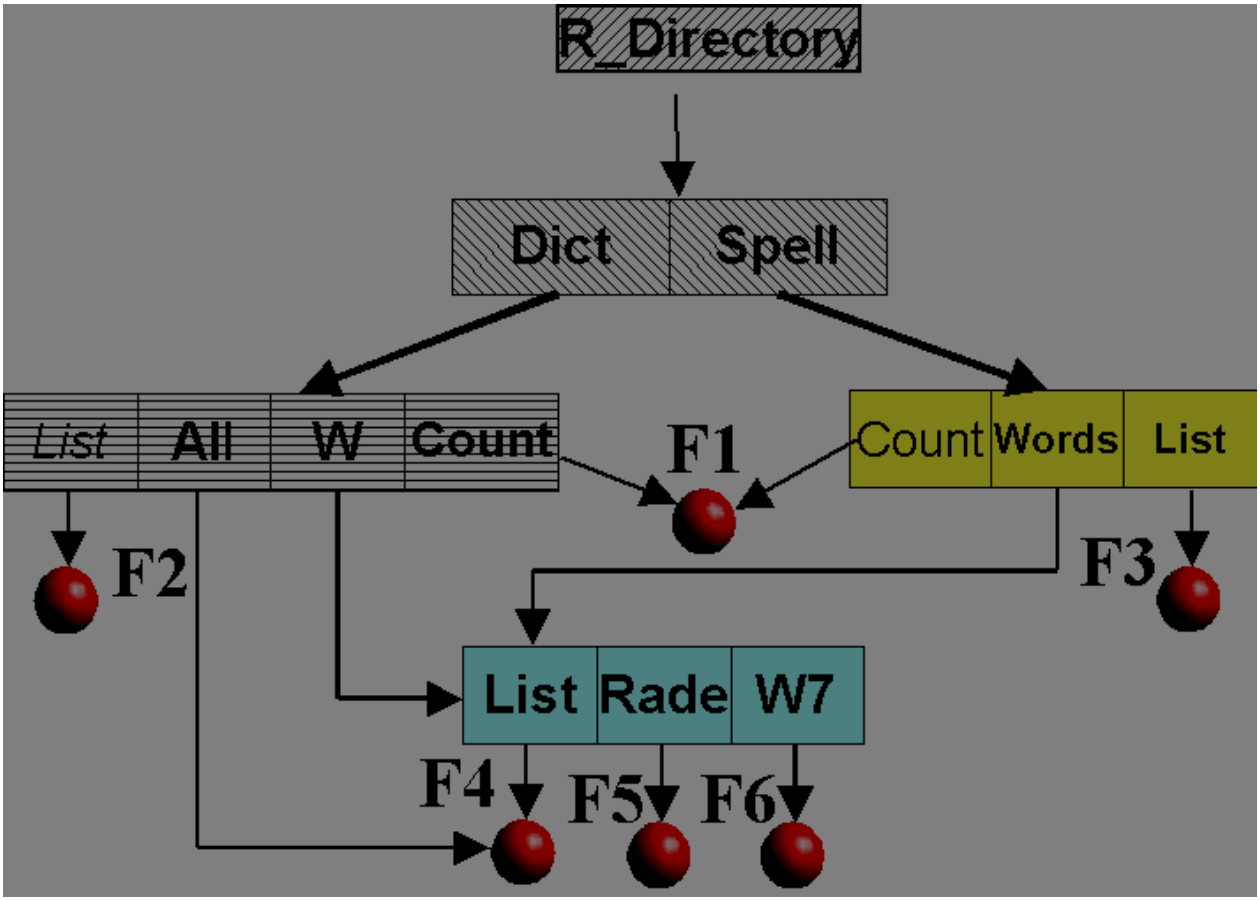
Exercise 1. In your own directory create the following Acyclic-Graph Directory Structure:



Show the sequence of UNIX-commands realizing this directory.

Put your answer here.

mkdir R_Directory

mkdir R_Directory/Dict

mkdir R_Directory/Spell

mkdir R_Directory/Dict/List

mkdir R_Directory/Dict/All

mkdir R_Directory/Dict/W

mkdir R_Directory/Dict/Count

mkdir R_Directory/Spell/Count

mkdir R_Directory/Spell/Words

mkdir R_Directory/Spell/List

mkdir R_Directory/Spell/Words/List

touch R_Directory/Spell/Words/Rade

mkdir R_Directory/Spell/Words/W7

touch R_Directory/Dict/LIST/F2

touch R_Directory/Dict/Count/F1

touch R_Directory/Spell/List/F3

touch R_Directory/Dict/All/F4

touch R_Directory/Spell/Words/Rade/F5

touch R_Directory/Spell/Words/W7/F6

In –s ~/R_Directory/Spell/Count/F1 ~/R_Directory/Dict/Count/F1

In –s ~/R_Directory/Spell/Words/List/F4 ~/R_Directory/Dict/w/List/F4

In –s ~/R_Directory/Spell/Words/List ~/R_Directory/Dict/W/LIST

In –s ~/R_Directory/Spell/Words/Rade/ ~/R_Directory/Dict/W/Rade

In –s ~R_Directory/Spell/Words/W7 ~/R_Directory/Dict/W/W7

Exercise 2. Explain the purpose of the Open and Close operations.

1. Open operation

Put your answer here.

To prepare a file to be referenced

2. Close operation

Put your answer here.

to prevent reference to a file until it is reopened.

Exercise 3. Consider a system that supports 5000 users. Suppose you want to allow 4990 of these users to be able to access one file.

1. How would you specify this protection scheme in UNIX?

Put your answer here.

○create an access control list with names of all 4990 users. And put these users in one group. Finally set the group access.

2. Could you suggest another protection scheme that can be used more effectively for this purpose than the scheme provided by UNIX?

Put your answer here.

make a group , add 10 of users cannot access the file and change the permission of the file.

Exercise 4. Give an example of an application in which data in a file should be accessed in the following order:

a. Sequentially

Put your answer here.

video and/or audio streaming
log files
copy or download files
compare files

b. Randomly

Put your answer here.

database

image

editor

video

editer