CSCI-6647 Program 4: Sniff a Directory Tree Krikor Herlopian and Ricardo Aliwalas / 15-Oct-2020

The directory structure we used for testing:

```
$ tree ./test
./test
 — file1
  - file2
  - hardlink1
  — hardlink2

    sub1

     — file1
— file2
  - sub2
     — file1
      — file2
       - sub2-1
         ├─ file1
├─ file2
       - sub2-2
          — file1
            - sub3
              ☐ file1 file2
   - symlink1 -> sub2/sub2-1/file1
 — symlink2 -> sub2/sub2-2/sub3/file1
```

5 directories, 15 files

Show help:

Searching for a string in the current directory:

```
$ sniff -d ./test hello

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Verbose?
No
Help?
No
```

Case sensitive? No Recursive No Output file name: /dev/stdout Directory: ./test Search string words: Word 0: hello I-Node 12059607 links 1 Words found: hello File dir: /home/ra359/doc/unh/CSCI-6647/assignments/program4-directorytree/P4/test File name: file1 ______ Normal termination. Search for string recursively: \$ sniff -R -d ./test hello ______ Krikor Herlopian and Ricardo Aliwalas CSCI 6647 Fri Oct 16 2020 19:21:13 _____ Verbose? Help? No Case sensitive? No Recursive RECURSIVE Yes
Output file name: /dev/stdout
Directory: Directory: ./test Search string words: Word 0: hello ______ I-Node 12059607 links 1 Words found: hello File dir: /home/ra359/doc/unh/CSCI-6647/assignments/program4-directorytree/P4/test File name: file1 I-Node 12059611 links 1 Words found: hello File dir: /home/ra359/doc/unh/CSCI-6647/assignments/program4-directorytree/P4/test/sub1

File name: file1

Normal termination.

Search for string recursively and ignore case:

\$ sniff -i -R -d ./test octopus

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```
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```

Verbose? Help? No
Case sensitive? Yes
Recursive Yes

Output file name: /dev/stdout Directory: ./test

Search string words:

Word 0: octopus

I-Node 12059608 links 1 Words found: Octopus

File dir: /home/ra359/doc/unh/CSCI-6647/assignments/program4-directory-

tree/P4/test

File name: file2

I-Node 12059614 links 1 Words found: octopus

File dir: /home/ra359/doc/unh/CSCI-6647/assignments/program4-directory-

tree/P4/test/sub2

File name: file2

I-Node 12059809 links 2 Words found: OCTOPUS

File dir: /home/ra359/doc/unh/CSCI-6647/assignments/program4-directory-

tree/P4/test/sub2/sub2-2/sub3

File name: file2

Words found: OCTOPUS

File dir: /home/ra359/doc/unh/CSCI-6647/assignments/program4-directory-

tree/P4/test

File name: hardlink2

Normal termination.

Search for more than one word:

\$ sniff -i -R -d ./test hello octopus

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Verbose? No Help? No

Case sensitive? Yes Recursive Yes

Output file name: /dev/stdout Directory: ./test

Search string words:

Word 0: hello Word 1: octopus

I-Node 12059607 links 1

Words found: hello

File dir: /home/ra359/doc/unh/CSCI-6647/assignments/program4-directory-

tree/P4/test

File name: file1

I-Node 12059608 links 1

Words found: Octopus

File dir: /home/ra359/doc/unh/CSCI-6647/assignments/program4-directory-

tree/P4/test

File name: file2

I-Node 12059611 links 1

Words found: hello

File dir: /home/ra359/doc/unh/CSCI-6647/assignments/program4-directory-

tree/P4/test/sub1

File name: file1

I-Node 12059614 links 1

Words found: octopus

File dir: /home/ra359/doc/unh/CSCI-6647/assignments/program4-directory-

tree/P4/test/sub2

File name: file2

I-Node 12059809 links 2

Words found: OCTOPUS

File dir: /home/ra359/doc/unh/CSCI-6647/assignments/program4-directory-

tree/P4/test/sub2/sub2-2/sub3

File name: file2

Words found: OCTOPUS

File dir: /home/ra359/doc/unh/CSCI-6647/assignments/program4-directory-

tree/P4/test

File name: hardlink2

Normal termination.