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TASK1

Create the following hierarchy for folders and files (with necessary distinct contents along with name of the files) using suitable commands

Desktop ---> Tutorial2

Tutorial2 ---> Question, Solution, Sample1, Sample2

Question ---> tut-quest.odt

Solution ---> tut-solution.odt

Sample1 ---> file1.txt, file2.txt, file3.txt, unixsample.docx, dir1, dir2

Sample2 ---> dir3, user, file4.txt, file5.txt

Write a command to view the above-mentioned hierarchy

```
cs1058@ssn7:~$ cd Desktop
cs1058@ssn7:~/Desktop$ mkdir tutorial2
cs1058@ssn7:~/Desktop$ cd tutorial2
cs1058@ssn7:~/Desktop/tutorial2$ mkdir question solution sample1 sample2
cs1058@ssn7:~/Desktop/tutorial2$ ls
question sample1 sample2 solution
cs1058@ssn7:~/Desktop/tutorial2$ cd question
cs1058@ssn7:~/Desktop/tutorial2/question$ cat tut-quest.odt
cat: tut-quest.odt: No such file or directory
cs1058@ssn7:~/Desktop/tutorial2/question$ cat >tut-quest.odt
^Z
[1]+  Stopped                  cat > tut-quest.odt
cs1058@ssn7:~/Desktop/tutorial2/question$ cd ..
cs1058@ssn7:~/Desktop/tutorial2$ cd solution
cs1058@ssn7:~/Desktop/tutorial2/solution$ cat >tut-solution.odt
^Z
[2]+  Stopped                  cat > tut-solution.odt
cs1058@ssn7:~/Desktop/tutorial2/solution$ cd ..
```

```
cs1058@ssn7:~/Desktop/tutorial2$ cd sample1
cs1058@ssn7:~/Desktop/tutorial2/sample1$ cat >file1.txt
^Z
[3]+  Stopped                  cat > file1.txt
cs1058@ssn7:~/Desktop/tutorial2/sample1$ cat >file2.txt
^Z
[4]+  Stopped                  cat > file2.txt
cs1058@ssn7:~/Desktop/tutorial2/sample1$ cat file3.txt
cat: file3.txt: No such file or directory
cs1058@ssn7:~/Desktop/tutorial2/sample1$ cat >file3.txt
^Z
[5]+  Stopped                  cat > file3.txt
cs1058@ssn7:~/Desktop/tutorial2/sample1$
cs1058@ssn7:~/Desktop/tutorial2/sample1$ cat >unixsample.docx
^Z
[6]+  Stopped                  cat > unixsample.docx
cs1058@ssn7:~/Desktop/tutorial2/sample1$ mkdir dir1 dir2
cs1058@ssn7:~/Desktop/tutorial2/sample1$ cd ..
cs1058@ssn7:~/Desktop/tutorial2$ cd sample2
cs1058@ssn7:~/Desktop/tutorial2/sample2$ mkdir dir3 user
cs1058@ssn7:~/Desktop/tutorial2/sample2$ cat >file4.txt
^Z
[7]+  Stopped                  cat > file4.txt
cs1058@ssn7:~/Desktop/tutorial2/sample2$ cat >file5.txt
^Z
[8]+  Stopped                  cat > file5.txt
cs1058@ssn7:~/Desktop/tutorial2/sample2$ cd ..
cs1058@ssn7:~/Desktop/tutorial2$ ls -Rp
.:
question/ sample1/ sample2/ solution/

./question:
tut-quest.odt
```

```
./sample1:  
dir1/ dir2/ file1.txt file2.txt file3.txt unixsample.docx
```

```
./sample1/dir1:
```

```
./sample1/dir2:
```

```
./sample2:  
dir3/ file4.txt file5.txt user/
```

```
./sample2/dir3:
```

```
./sample2/user:
```

```
./solution:  
tut-solution.odt  
cs1058@ssn7:~/Desktop/tutorial2$
```

TASK 2

Write commands to copy the file **file2.txt** to **user** directory for the following

- current directory is Tutorial2
- current directory is dir2
- current directory is dir3
- current directory is Sample1

```
cs1058@ssn7:~/Desktop/tutorial2$ cp sample1/file2.txt sample2/user  
cs1058@ssn7:~/Desktop/tutorial2$ cd sample1  
cs1058@ssn7:~/Desktop/tutorial2/sample1$ ls  
dir1 dir2 file1.txt file2.txt file3.txt unixsample.docx
```

```
cs1058@ssn7:~/Desktop/tutorial2/sample1$ cd dir2
cs1058@ssn7:~/Desktop/tutorial2/sample1/dir2$ cp ../file2.txt ../../sample2/user
cs1058@ssn7:~/Desktop/tutorial2/sample1/dir2$ cd ..
cs1058@ssn7:~/Desktop/tutorial2/sample1$ cd ..
cs1058@ssn7:~/Desktop/tutorial2$ cd sample2
cs1058@ssn7:~/Desktop/tutorial2/sample2$ cd dir3
cs1058@ssn7:~/Desktop/tutorial2/sample2/dir3$ cp ../../sample1/file2.txt
../usercs1058@ssn7:~/Desktop/tutorial2/sample2/dir3$ cd ..
cs1058@ssn7:~/Desktop/tutorial2/sample2$ cd ..
cs1058@ssn7:~/Desktop/tutorial2$ cd sample1
cs1058@ssn7:~/Desktop/tutorial2/sample1$ cp file2.txt ../sample2/user
cs1058@ssn7:~/Desktop/tutorial2/sample1$ cd ..
cs1058@ssn7:~/Desktop/tutorial2$ ls -Rp
```

..:

question/ sample1/ sample2/ solution/

./question:

tut-quest.odt

./sample1:

dir1/ dir2/ file1.txt file2.txt file3.txt unixsample.docx

./sample1/dir1:

./sample1/dir2:

./sample2:

dir3/ file4.txt file5.txt user/

./sample2/dir3:

./sample2/user:

file2.txt

./solution:
tut-solution.odt

TASK 3

- Write commands to create hard link and soft link for the file1.txt in **Sample1** directory and
- demonstrate the working of it.
- What about the inodes created for hard and symbolic links?
- Can we access the contents of file using the any link? How are they accessed?

```
cs1058@ssn7:~/Desktop/tutorial2$ cd sample1
cs1058@ssn7:~/Desktop/tutorial2/sample1$ ls
dir1 dir2 file1.txt file2.txt file3.txt unixsample.docx
cs1058@ssn7:~/Desktop/tutorial2/sample1$ ln file1.txt lfile1.txt
cs1058@ssn7:~/Desktop/tutorial2/sample1$ ls
dir1 dir2 file1.txt file2.txt file3.txt lfile1.txt unixsample.docx
cs1058@ssn7:~/Desktop/tutorial2/sample1$ ln -s file1.txt sfile1.txt
cs1058@ssn7:~/Desktop/tutorial2/sample1$ ls
dir1 file1.txt file3.txt sfile1.txt
dir2 file2.txt lfile1.txt unixsample.docx
cs1058@ssn7:~/Desktop/tutorial2/sample1$ ls -ai
408017 .      407138 dir2      408400 file3.txt  408409 unixsample.docx
9438351 ..    408394 file1.txt  408394 lfile1.txt
407095 dir1   408396 file2.txt  407970 sfile1.txt
cs1058@ssn7:~/Desktop/tutorial2/sample1$ cat lfile1.txt
cs1058@ssn7:~/Desktop/tutorial2/sample1$ cat >>file1.txt
hii nice to meet you
^Z
[9]+ Stopped          cat >> file1.txt
cs1058@ssn7:~/Desktop/tutorial2/sample1$ cat lfile1.txt
```

hii nice to meet you

```
cs1058@ssn7:~/Desktop/tutorial2/sample1$ cat sfile1.txt
```

hii nice to meet you

TASK 4

- Print the number files created given the date
- Print the number of files created given the type
- Print the commands used in your system given the date

```
cs1058@ssn9:~/Desktop/tutorial2$ find . -type f -ls | grep 'Jul' |grep '3' | wc -l
10
```

```
cs1058@ssn9:~/Desktop/tutorial2$ find . -type f -ls | grep "odt" | wc -l
2
```

```
cs1058@ssn9:~/Desktop/tutorial2$ find . -type f -ls | grep "txt" | wc -l
7
```

```
cs1058@ssn9:~/Desktop/tutorial2/sample2$ history |grep "10/07/19"
```

- 1 10/07/19 14:57:02 javac Firstprog.java
- 2 10/07/19 14:57:02 ls Firstprog.java
- 3 10/07/19 14:57:02 ls Firstprog.class
- 4 10/07/19 14:57:02 java Firstprog
- 5 10/07/19 14:57:02 javac 1a1.java
- 6 10/07/19 14:57:02 ls 1a1.java
- 7 10/07/19 14:57:02 ls 1a1.class
- 8 10/07/19 14:57:02 javac A1.java
- 9 10/07/19 14:57:02 ls A1.java
- 10 10/07/19 14:57:02 ls A1.class
- 11 10/07/19 14:57:02 java A1
- 12 10/07/19 14:57:02 javac Firstprog.java
- 13 10/07/19 14:57:02 java Firstprog
- 14 10/07/19 14:57:02 ls Firstprog.java

15 10/07/19 14:57:02 ls Firstprog.class
16 10/07/19 14:57:02 java Firstprog 3 5
17 10/07/19 14:57:02 javac Compute.java
18 10/07/19 14:57:02 ls Compute.java
19 10/07/19 14:57:02 ls Compute.class
20 10/07/19 14:57:02 java Compute 3 5
21 10/07/19 14:57:02 javac A2.java
22 10/07/19 14:57:02 ls A2.java
23 10/07/19 14:57:02 ls A2.class
24 10/07/19 14:57:02 java A2 5
25 10/07/19 14:57:02 javac A2.java
26 10/07/19 14:57:02 ls A2.java
27 10/07/19 14:57:02 ls A2.class
28 10/07/19 14:57:02 java A2 5
29 10/07/19 14:57:02 javac A2.java
30 10/07/19 14:57:02 ls A2.java
31 10/07/19 14:57:02 ls A2.class
32 10/07/19 14:57:02 java A2 5
33 10/07/19 14:57:02 javac A2.java
34 10/07/19 14:57:02 ls A2.java
35 10/07/19 14:57:02 ls A2.class
36 10/07/19 14:57:02 java A2 5
37 10/07/19 14:57:02 javac A3.java
38 10/07/19 14:57:02 ls A3.java
39 10/07/19 14:57:02 ls A3.class
40 10/07/19 14:57:02 java A3 5
41 10/07/19 14:57:02 javac A3mod.java
42 10/07/19 14:57:02 ls A3mod.java
43 10/07/19 14:57:02 ls A3mod.class
44 10/07/19 14:57:02 java A3mod 5 4 3 2 1 5
45 10/07/19 14:57:02 java A3mod 5 4 3 2 1
46 10/07/19 14:57:02 javac A3mod.java
47 10/07/19 14:57:02 ls A3mod.java
48 10/07/19 14:57:02 ls A3mod.class

```
49 10/07/19 14:57:02 java A3mod 5 4 3 2 1
50 10/07/19 14:57:02 javac A4.java
51 10/07/19 14:57:02 javac A3mod.java
52 10/07/19 14:57:02 ls A3mod.java
53 10/07/19 14:57:02 ls A3mod.class
54 10/07/19 14:57:02 java A3mod 5 4 3 2 1
55 10/07/19 14:57:02 javac A4.java
56 10/07/19 14:57:02 ls A4.java
57 10/07/19 14:57:02 ls A4.class
58 10/07/19 14:57:02 java A4 371
59 10/07/19 14:57:02 javac A4.java
60 10/07/19 14:57:02 ls A4.java
61 10/07/19 14:57:02 ls A4.class
62 10/07/19 14:57:02 java A4 371
63 10/07/19 14:57:02 java A4 372
64 10/07/19 14:57:02 javac A5.java
65 10/07/19 14:57:02 ls A5.java
66 10/07/19 14:57:02 ls A5.class
67 10/07/19 14:57:02 java A5 harshu
68 10/07/19 14:57:02 java A3mod 5 4 3 2 -1
69 10/07/19 14:57:02 java A4 1
70 10/07/19 14:57:02 java A4 0
71 10/07/19 14:57:02 java A4 1
72 10/07/19 14:57:02 javac A5.java
73 10/07/19 14:57:02 ls A5.java
74 10/07/19 14:57:02 ls A5.class
75 10/07/19 14:57:02 java A5 harshu 4 cse 90 95 97
76 10/07/19 14:57:02 javac A5.java
77 10/07/19 14:57:02 ls A5.java
78 10/07/19 14:57:02 ls A5.class
79 10/07/19 14:57:02 java A5 harshu 4 cse 90 95 97 cse
80 10/07/19 14:57:02 cd Desktop
81 10/07/19 14:57:02 javac Lin_bin
82 10/07/19 14:57:02 javac Linbin
```



```
83 10/07/19 14:57:02 javac Linbin.java
84 10/07/19 14:57:02 java Linbin
85 10/07/19 14:57:02 javac Linbin.java
86 10/07/19 14:57:02 java Linbin
87 10/07/19 14:57:02 javac Linbin.java
88 10/07/19 14:57:02 java Linbin
89 10/07/19 14:57:02 javac Linbin.java
90 10/07/19 14:57:02 java Linbin
91 10/07/19 14:57:02 javac Eb.java
92 10/07/19 14:57:02 java Eb
93 10/07/19 14:57:02 javac Eb.java
94 10/07/19 14:57:02 java Eb
95 10/07/19 14:57:02 cd Desktop
96 10/07/19 14:57:02 mkdir -p tutorial2/question/solution/sample1/sample2
97 10/07/19 14:57:02 ls tutorial2
98 10/07/19 14:57:02 cd question
99 10/07/19 14:57:02 ls -Rp
100 10/07/19 14:57:02 cd Desktop
101 10/07/19 14:57:02 mkdir tutorial2
102 10/07/19 14:57:02 mkdir -p question/solution/sample1/sample2
103 10/07/19 14:57:02 ls tutorial2
104 10/07/19 14:57:02 ls -Rp tutorial2
105 10/07/19 14:57:02 cd Desktop
106 10/07/19 14:57:02 mkdir -p tutorial2/question/solution/sample1/sample2
107 10/07/19 14:57:02 ls -Rp
108 10/07/19 14:57:02 cd Desktop
109 10/07/19 14:57:02 mkdir tutorial2
110 10/07/19 14:57:02 cd tutorial2
111 10/07/19 14:57:02 mkdir question solution sample1 sample2
112 10/07/19 14:57:02 ls tutorial2
113 10/07/19 14:57:02 ls
114 10/07/19 14:57:02 cd question
115 10/07/19 14:57:02 cat tut-quest.odt
116 10/07/19 14:57:02 cat >tut-quest.odt
```

```
117 10/07/19 14:57:02 cd..
118 10/07/19 14:57:02 cd ..
119 10/07/19 14:57:02 cd solution
120 10/07/19 14:57:02 cat >tut-solution.odt
121 10/07/19 14:57:02 cd ..
122 10/07/19 14:57:02 cd sample1
123 10/07/19 14:57:02 cat >file1.txt
124 10/07/19 14:57:02 cat >file2.txt
125 10/07/19 14:57:02 cat file3.txt
126 10/07/19 14:57:02 cat >file3.txt
127 10/07/19 14:57:02 cat >unixsample.docx
128 10/07/19 14:57:02 mkdir dir1 dir2
129 10/07/19 14:57:02 cd ..
130 10/07/19 14:57:02 cd sample2
131 10/07/19 14:57:02 mkdir dir3 user
132 10/07/19 14:57:02 cat >file4.txt
133 10/07/19 14:57:02 cat >file5.txt
134 10/07/19 14:57:02 cd ..
135 10/07/19 14:57:02 ls -Rp
136 10/07/19 14:57:02 cp sample1/file2.txt sample2/user
137 10/07/19 14:57:02 ls -Rp
138 10/07/19 14:57:02 cd sample1
139 10/07/19 14:57:02 ls
140 10/07/19 14:57:02 cd dir2
141 10/07/19 14:57:02 cp sample1/file2.txt ../../sample2/user
142 10/07/19 14:57:02 cp ../file2.txt ../../sample2/user
143 10/07/19 14:57:02 ls -Rp
144 10/07/19 14:57:02 cd ..
145 10/07/19 14:57:02 ls -Rp
146 10/07/19 14:57:02 cd sample2
147 10/07/19 14:57:02 cd dir3
148 10/07/19 14:57:02 cp ../../sample1/file2.txt ../user
149 10/07/19 14:57:02 cd ..
150 10/07/19 14:57:02 ls -Rp
```

```
151 10/07/19 14:57:02 cd sample1
152 10/07/19 14:57:02 cp file2.txt ../sample2/user
153 10/07/19 14:57:02 cd ..
154 10/07/19 14:57:02 ls -Rp
155 10/07/19 14:57:02 cd sample1
156 10/07/19 14:57:02 ls
157 10/07/19 14:57:02 ln file1.txt lfile1.txt
158 10/07/19 14:57:02 ls
159 10/07/19 14:57:02 ls -s file1.txt sfile1.txt
160 10/07/19 14:57:02 ln -s file1.txt sfile1.txt
161 10/07/19 14:57:02 ls
162 10/07/19 14:57:02 ls -ai
163 10/07/19 14:57:02 cat lfile1
164 10/07/19 14:57:02 cat lfile1.txt
165 10/07/19 14:57:02 cat >>file1.txt
166 10/07/19 14:57:02 cat lfile.txt
167 10/07/19 14:57:02 cat lfile1.txt
168 10/07/19 14:57:02 cat sfile1.txt
169 10/07/19 14:57:02 cd ..
170 10/07/19 14:57:02 ls -ltr
171 10/07/19 14:57:02 ls -ltr
172 10/07/19 14:57:02 cd tutorial2
173 10/07/19 14:57:02 ls -ltr
174 10/07/19 14:57:02 cd Desktop
175 10/07/19 14:57:02 cat >cse.txt
176 10/07/19 14:57:02 ls -i cse.txt
177 10/07/19 14:57:02 ls -la
178 10/07/19 14:57:02 cd Desktop
179 10/07/19 14:57:02 cat >cse.txt
180 10/07/19 14:57:50 cd Desktop
181 10/07/19 15:00:36 ls -l | grep "jul 3"
182 10/07/19 15:01:32 ls -l | grep "jul 3" | awk '{print $9" "$6" "$7" "$8}'
183 10/07/19 15:02:04 cd tutorial2
184 10/07/19 15:02:06 ls -l | grep "jul 3" | awk '{print $9" "$6" "$7" "$8}'
```

```
185 10/07/19 15:07:19 ls -l | grep "jul 3"
186 10/07/19 15:07:26 ls -l | grep "jul 3" -print
187 10/07/19 15:07:45 ls -l
188 10/07/19 15:07:55 ls -l | grep "Jul 3"
189 10/07/19 15:08:17 ls -l | type grep "Jul 3"
190 10/07/19 15:08:26 type ls -l | type grep "Jul 3"
191 10/07/19 15:08:46 ls -l | grep "Jul 3"
192 10/07/19 15:08:59 ls -l
193 10/07/19 15:09:07 ls -l | grep "Jul "
194 10/07/19 15:09:31 ls -l | grep "Jul 3"
195 10/07/19 15:11:46 find . -type f -ls -l | grep "Jul 3"
196 10/07/19 15:11:59 find . -type f ls -l | grep "Jul 3"
197 10/07/19 15:12:09 find . -type f -ls | | grep "Jul 3"
198 10/07/19 15:12:31 find . -type f -l | grep "Jul 3"
199 10/07/19 15:13:15 find . -type f -ls | grep "Jul 3"
200 10/07/19 15:14:01 find . -type f -ls | grep 'Jul' |grep '3'
201 10/07/19 15:14:46 find . -type f -ls
202 10/07/19 15:15:02 find . -type .txt -ls
203 10/07/19 15:15:16 find . -type f.txt -ls
204 10/07/19 15:16:02 find . -type f -ls | grep "txt"
205 10/07/19 15:16:14 find . -type f -ls | grep "odt"
206 10/07/19 15:17:30 find . -type f -ls | grep "odt" | wc -l
207 10/07/19 15:17:41 find . -type f -ls | grep "txt" | wc -l
208 10/07/19 15:18:03 find . -type f -ls | grep 'Jul' |grep '3' | wc -l
209 10/07/19 15:23:54 history | grep "Jul 9"
210 10/07/19 15:23:59 history | grep "Jul 3"
211 10/07/19 15:24:57 history | grep 2019-07-03
212 10/07/19 15:25:59 history | grep dnf | grep 'Jul' | grep '3'
213 10/07/19 15:28:45 cp sample1/{file2.txt,file3.txt}
214 10/07/19 15:28:52 cd dir1
215 10/07/19 15:29:03 cd sample1
216 10/07/19 15:29:11 cd dir1
217 10/07/19 15:29:54 cp ../{file2.txt,file3.txt} ../dir2
218 10/07/19 15:30:00 cd ..
```

```
219 10/07/19 15:30:09 ls -Rp
220 10/07/19 15:33:13 cd sample2
221 10/07/19 15:34:07 cp -p file4.txt file5.txt
222 10/07/19 15:34:23 ls -i
223 10/07/19 15:35:07 ls -l
224 10/07/19 15:35:20 cp file4.txt file5.txt
225 10/07/19 15:35:23 ls -l
226 10/07/19 15:38:19 history | grep "2019-07-03"
227 10/07/19 15:38:40 history |grep "03-07-19"
228 10/07/19 15:38:51 history|grep "03-07-19"
229 10/07/19 15:40:32 HISTTIMEFORMAT="%d/%m/%y %T "
230 10/07/19 15:40:46 history
231 10/07/19 15:41:25 03/07/19
232 10/07/19 15:41:56 ~/.bashrc
233 10/07/19 15:42:23 history |grep "03/07/19"
234 10/07/19 15:42:42 history |grep "10/07/19"
```

TASK 5

Write a command to copy a set of specific files (file2.txt, file3.txt) from dir1 to dir2

```
s1058@ssn9:~/Desktop/tutorial2$ cd sample1
cs1058@ssn9:~/Desktop/tutorial2/sample1$ cd dir1
cs1058@ssn9:~/Desktop/tutorial2/sample1/dir1$ cp ../{file2.txt,file3.txt} ../dir2
cs1058@ssn9:~/Desktop/tutorial2/sample1/dir1$ cd ..
cs1058@ssn9:~/Desktop/tutorial2/sample1$ cd ..
cs1058@ssn9:~/Desktop/tutorial2$ ls -Rp
.:
question/ sample1/ sample2/ solution/
```

./question:

tut-quest.odt

./sample1:

dir1/ file1.txt file3.txt sfile1.txt

dir2/ file2.txt lfile1.txt unixsample.docx

./sample1/dir1:

./sample1/dir2:

file2.txt file3.txt

./sample2:

dir3/ file4.txt file5.txt user/

./sample2/dir3:

./sample2/user:

file2.txt

./solution:

tut-solution.odt

TASK 6

Write necessary commands to demonstrate copying the file4.txt in Sample2 to file5.txt by preserving and not preserving the file permissions

```
cs1058@ssn9:~/Desktop/tutorial2$ cd sample2
```

```
cs1058@ssn9:~/Desktop/tutorial2/sample2$ cp -p file4.txt file5.txt //preserving  
permission
```

```
cs1058@ssn9:~/Desktop/tutorial2/sample2$ ls -l
total 8
drwxrwxr-x 2 cs1058 cs1058 4096 Jul  3 09:05 dir3
-rw-rw-r-- 1 cs1058 cs1058   0 Jul  3 09:05 file4.txt
-rw-rw-r-- 1 cs1058 cs1058   0 Jul  3 09:05 file5.txt
drwxrwxr-x 2 cs1058 cs1058 4096 Jul  3 09:14 user
cs1058@ssn9:~/Desktop/tutorial2/sample2$ cp file4.txt file5.txt // not
preserving permission
cs1058@ssn9:~/Desktop/tutorial2/sample2$ ls -l
total 8
drwxrwxr-x 2 cs1058 cs1058 4096 Jul  3 09:05 dir3
-rw-rw-r-- 1 cs1058 cs1058   0 Jul  3 09:05 file4.txt
-rw-rw-r-- 1 cs1058 cs1058   0 Jul  3 09:05 file5.txt
drwxrwxr-x 2 cs1058 cs1058 4096 Jul  3 09:14 user
```

TASK 7

Find a file specifying a random directory

Write commands to be used

- if the directory is empty
- if the directory is not empty

```
cs1058@ssn9:~/Desktop/tutorial2$ find question tut-quest.odt -print
question
question/tut-quest.odt
cs1058@ssn9:~/Desktop/tutorial2$ mkdir store
cs1058@ssn9:~/Desktop/tutorial2$ find store tut-quest.odt -print
store
find: 'tut-quest.odt': No such file or directory
```