

MISS-EXAM

Name		User-ID	
Date		Subject	UNIX
Marks	50	Duration	3hrs

- Write your name & Date on every answer sheet.
- Write scripts on the answer sheet before logout.
- Write scripts in directories **Q1** & **Q2** for questions **1** & **2** respectively.

1) Write a C-Shell script in a file ,devicesSwap.sh ,that does following tasks. (25M)

- Reads spectre netlist whose name is given through command line.
- Generate the new spectre netlist whose name is provided through command line.
- New netlist is generated by replacing all PMOS devices with NMOS and NMOS devices with PMOS.

Use Model of Script :

```
% deviceSwap.sh      input_org.scs  input_targ.scs
```

Guidelines:

- PMOS device = slvtpfet ; NMOS = slvtnfet
- Do not use any built-in command.
- For validation of your script, execute below command and visually notice the differences between **input_org.scs** & **input_targ.scs**

```
%gvim -d      input_org.scs  input_targ.scs
```

2) Write a C-Shell script in a file, depthFinder.sh , that does following tasks. (25M)

- Takes two directory names as command line arguments.
- Identifies maximum depth of each directory and prints on terminal.
- Compares if both the directories are exactly similar in their hierarchy of entries.

For example, Contents of **dir1** & **dir2** are shown below. When below command is run output should be generated as shown.

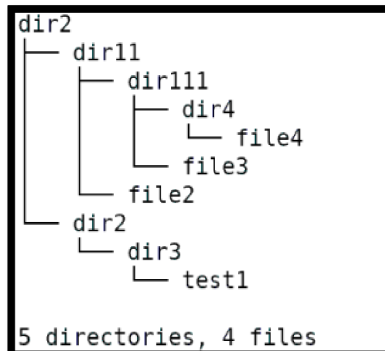
```
% dirCompare.sh  ./dir1  ./dir2
```

Output:

Maximum depth of dir1 = 4

Maximum depth of dir2 = 4

dir1 & dir2 are not equal.



For example, Contents of **dir3** & **dir4** are shown below. When below command is run output should be generated as shown.

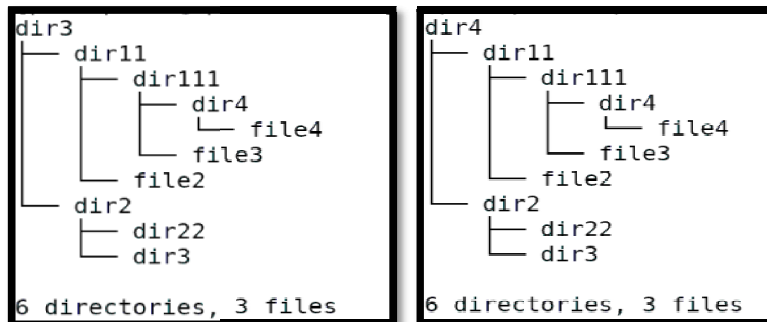
% dirCompare.sh ./dir3 ./dir4

Output:

Maximum depth of dir1 = 4

Maximum depth of dir2 = 4

dir3 & dir4 are equal.



Please note that script should work for any other directories too. The above given structure is just an example for better understanding.

*****ALL IS WELL*****