

Write a bash script, "remove_exe.sh" that will take the working directory name as user input. If the user does not provide any working directory name, consider your script is lying in the **root working directory**. You have to remove executable permission from all the files recursively present in that working directory, however only if the file is a regular file.

If we give the command "ls -lR" in the working directory, the output is,

```
.:
total 12
drwxrwxr-x 3 cse cse 4096 Dec 14 10:36 a
drwxrwxr-x 3 cse cse 4096 Dec 14 10:36 b
drwxrwxr-x 2 cse cse 4096 Dec 14 10:36 c
-rw-rw-r-- 1 cse cse  0 Dec  9 00:37 c.txt

./a:
total 84
-rwxrwxr-x 1 cse cse 80075 Dec  4 2021 1
drwxrwxr-x 3 cse cse  4096 Dec 14 10:36 a1
-rw-rw-r-- 1 cse cse   0 Dec  9 00:37 g.txt

./a/a1:
total 84
-rwxrwxr-x 1 cse cse 80075 Dec  4 2021 1
drwxrwxr-x 2 cse cse  4096 Dec 14 10:36 a2
-rw-rw-r-- 1 cse cse   0 Dec  9 00:37 h.txt

./a/a1/a2:
total 80
-rwxrwxr-x 1 cse cse 80075 Dec  4 2021 1
-rw-rw-r-- 1 cse cse   0 Dec  9 00:37 i.txt

./b:
total 84
-rwxrwxr-x 1 cse cse 80075 Dec  4 2021 1
drwxrwxr-x 5 cse cse  4096 Dec 14 10:36 b1
-rw-rw-r-- 1 cse cse   0 Dec  9 00:37 e.txt

./b/b1:
total 12
drwxrwxr-x 2 cse cse 4096 Dec 14 10:34 b2
drwxrwxr-x 2 cse cse 4096 Dec 14 10:34 b3
drwxrwxr-x 2 cse cse 4096 Dec 14 10:34 b4
-rw-rw-r-- 1 cse cse   0 Dec  9 00:37 f.txt

./b/b1/b2:
total 80
-rwxrwxr-x 1 cse cse 80075 Dec  4 2021 1
```

```
./b/b1/b3:
total 80
-rwxrwxr-x 1 cse cse 80075 Dec  4 2021 1
```

```
./b/b1/b4:
total 80
-rwxrwxr-x 1 cse cse 80075 Dec  4 2021 1
```

```
./c:
total 80
-rwxrwxr-x 1 cse cse 80075 Dec  4 2021 1
-rw-rw-r-- 1 cse cse   0 Dec  9 00:37 d.txt
```

Now, if we execute the bash script, it will remove executable permission from all the currently executable files. The output should be something like this,

```
In dir sample
```

```
-----
c.txt is currently not executable.
```

```
In dir a
```

```
-----
1 is currently executable.
-rwxrwxr-x 1 cse cse 80075 Dec  4 2021 1
1's executable permission is now changing.
-rw-rw-r-- 1 cse cse 80075 Dec  4 2021 1
g.txt is currently not executable.
```

```
In dir a1
```

```
-----
1 is currently executable.
-rwxrwxr-x 1 cse cse 80075 Dec  4 2021 1
1's executable permission is now changing.
-rw-rw-r-- 1 cse cse 80075 Dec  4 2021 1
h.txt is currently not executable.
```

```
In dir a2
```

```
-----
1 is currently executable.
-rwxrwxr-x 1 cse cse 80075 Dec  4 2021 1
1's executable permission is now changing.
-rw-rw-r-- 1 cse cse 80075 Dec  4 2021 1
i.txt is currently not executable.
```

In dir b

1 is currently executable.

-rwxrwxr-x 1 cse cse 80075 Dec 4 2021 1

1's executable permission is now changing.

-rw-rw-r-- 1 cse cse 80075 Dec 4 2021 1

e.txt is currently not executable.

In dir b1

f.txt is currently not executable.

In dir b2

1 is currently executable.

-rwxrwxr-x 1 cse cse 80075 Dec 4 2021 1

1's executable permission is now changing.

-rw-rw-r-- 1 cse cse 80075 Dec 4 2021 1

In dir b3

1 is currently executable.

-rwxrwxr-x 1 cse cse 80075 Dec 4 2021 1

1's executable permission is now changing.

-rw-rw-r-- 1 cse cse 80075 Dec 4 2021 1

In dir b4

1 is currently executable.

-rwxrwxr-x 1 cse cse 80075 Dec 4 2021 1

1's executable permission is now changing.

-rw-rw-r-- 1 cse cse 80075 Dec 4 2021 1

In dir c

1 is currently executable.

-rwxrwxr-x 1 cse cse 80075 Dec 4 2021 1

1's executable permission is now changing.

-rw-rw-r-- 1 cse cse 80075 Dec 4 2021 1

d.txt is currently not executable.

You can verify that your bash script is working by running the command "ls -lR" in the working directory again.