

The students are required to implement the areas in bold

Please note that his script was written for the KornShell - if you implement it with bash, you may need to change the print commands to echo commands depending on your bash implementation.

```
#!/usr/bin/ksh
```

```
USAGE="$0 -f directory
$0 -d directory
$0 -d -f directory
```

```
-f my_rename files
-d my_rename directories
"
```

```
usage ()
{
    print -u2 "$USAGE"
    exit 1
}
```

```
pathname ()
{
    # function provided for the student
    print -- "${1%/*}"
}
```

```
basename ()
{
    # function provided for the student
    print -- "${1##*/}"
}
```

```
find_dirs ()
{
    # function provided for the student
    find "$1" -depth -type d -name '*' -print
}
```

```
find_files ()
{
    # function provided for the student
    find "$1" -depth -type f -name '*' -print
}
```

```
my_rename()
{
    # the student must implement this function to my_rename
    # $1 to $2
    # The following error checking must happen:
    # 1. check if the directory where $1 resided is writeable,
```

```

#         if not then report an error
# 2. check if "$2" exists -if it does report an error and don't
#         do the mv command
# 3. check the status of the mv command and report any errors
:   # remove this line when you add your code
}

```

```

fix_dirs ()
{
# The student must implement this function
# to actually call the my_rename funtion to
# change the name of the directory from having spaces to
# changing all of the spaces to -'s
# if the name were "a b", the new name would be a-b
# if the name were "a  b" the new name would be a----b
:   # remove this line when you add your code

}

```

```

fix_files ()
{
# The student must implement this function
# to actually call the my_rename funtion to
# change the name of the file from having spaces to
# changing all of the spaces to -'s
# if the name were "a b", the new name would be a-b
# if the name were "a  b" the new name would be a----b
:   # remove this line when you add your code

}

```

```

WFILE=
WDIR=
DIR=

```

```

if [ "$#" -eq 0 ]
then
usage
fi

```

```

while [ $# -gt 0 ]
do
case $1 in
-d)
WDIR=1
;;
-f)
WFILE=1
;;
-*)
usage
;;

```

```

*)
    if [ -d "$1" ]
        then
            DIR="$1"
        else
            print -u2 "$1 does not exist ..."
            exit 1
        fi
    ;;
esac
shift
done

```

The student must implement the following:

- if the directory was not specified, the script should
print a message and exit

- if the Directory specified is the current directory, the script
print a error message and exit

- if the directory specified is . or .. the script should print
an error message and exit

- if both -f and -d are not specified, the script should print a
message and exit
#

```

if [ "$WDIR" -a "$WFILE" ]
    then
        fix_files "$DIR"
        fix_dirs "$DIR"
elif [ "$WDIR" ]
    then
        fix_dirs "$DIR"
elif [ "$WFILE" ]
    then
        fix_files "$DIR"
fi

```