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## UNIX lab Test ②

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C program.

```
#include <stdio.h>
#include <stdlib.h>
#include <sys/types.h>
#include <sys/stat.h>
```

```
main (int argc, char *argv[])
```

```
{
```

```
    struct stat st;
```

```
    int i;
```

```
    for (i = 1; i < argc; i++)
```

```
    {
        if (stat(argv[i], &st)
```

```
        {
```

```
            printf ("%s does not exist, ", argv[i]);
            continue;
```

```
        }
```

```
        printf ("%s is a ", argv[i]);
```

```
        switch (st.st_mode & 0170000)
```

```
        {
```

(PTO)

*[Signature]*

```
case S_IFDIR: printf("Directory file\n");  
break;
```

```
case S_IFCHR: printf("character device file\n");  
break;
```

```
case S_IFBLK: printf("Block device file\n");  
break;
```

```
case S_IFREG: printf("Regular file\n");  
break;
```

```
case S_IFLNK: printf("Symbolic link file\n");  
break;
```

```
case S_IFIFO: printf("FIFO file\n");
```

},

},

},

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(7)(6)

## Script

if [ \$# -ne 2 ]

then

echo "no arguments, plz enter 2 arguments"

elif [ ! -e \$1 -o ! -e \$2 ]

then

echo "file does not exist"

else

per1 = `ls -l \$1 | cut -c 2-10`

per2 = `ls -l \$2 | cut -c 2-10`

if [ \$per1 = \$per2 ]

then

echo "Permissions are identical : permission is \$per1"

else

echo "Permissions are not identical"

echo "Permission of \$1 is \$per1"

echo "Permission of \$2 is \$per2"

fi  
fi