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Panel: C, **Batch:** C1

OS Lab 9 Code:

Title: Copy Utility

```
#include<fcntl.h>

#include<stdio.h>

#include<stdlib.h>

#include <unistd.h>

char buffer[2048]; // the uninitialized data is the array buffer
int version =1; //version should have some initialized data.
void copy(int old, int new) //definition of copy subroutine
{
    int count;

    count=read(old, buffer, sizeof(buffer));

    // while (count > 0) //The read system call returns the number of
bytes read, returning 0 when it reaches the end of file.

    write(new, buffer, count); //write the data to new file
}

void main(int argc,char *argv[]){
{
    int fdold, fdnew;

    if (argc != 3)
```

```
{  
    printf("need 2 arguments for copy program\n");  
    exit(1);
```

```

    }

fdold = open(argv[1], O_RDONLY); /* open source file read only */
if (fdold == -1)

{
    printf("cannot open file %s\n", argv[1]);
    exit(1);
}

fdnew = creat(argv[2], 0666);

if (fdnew == -1) /* create target file rw for all */
{ printf("cannot create file %sn", argv[2]);
exit(1); }

copy(fdold, fdnew); //call to copy subroutine
close(fdold);

close(fdnew);
exit (0);
}
}

```

OUTPUT:

```

computer@c0410224: ~/Desktop
computer@c0410224:~$ gcc copyutility.c
/usr/lib/gcc/x86_64-linux-gnu/5/../../../x86_64-linux-gnu/crt1.o: In function '_start':
(.text+0x28): undefined reference to 'main'
collect2: error: ld returned 1 exit status
computer@c0410224:~$ cd Desktop
computer@c0410224:~/Desktop$ gcc copyutility.c
computer@c0410224:~/Desktop$ ./a.out
Need 2 arguments for copy program
computer@c0410224:~/Desktop$ gcc Filecopy.c
computer@c0410224:~/Desktop$ cat copy.txt
hello, World!

computer@c0410224:~/Desktop$ cat paste.txt
hello, World!
computer@c0410224:~/Desktop$ ./a.out copy.txt paste.txt
hello, World!
computer@c0410224:~/Desktop$ cat paste.txt
hello, World!

computer@c0410224:~/Desktop$ gcc Filecopy.c

```