

File management exs

```
{
FILE *fp;
char ch;
fp = fopen("one.txt", "w");
printf("Enter data...");
while( (ch = getchar()) != EOF) {
putc(ch, fp);
}
fclose(fp);
fp = fopen("one.txt", "r");

while( (ch = getc(fp)) != EOF)
printf("%c",ch);

// closing the file pointer
fclose(fp);

return 0;
}
```

structure

```
struct Books Book1;
Books {
char strcpy( Book2.title, "Telecom
title[50]; Billing");

char strcpy
author[5
0];

char dest – This is the pointer to the
subject[1 destination array where the content
00]; is to be copied.

int src – This is the string to be copied.
book_id;

} book;
```

qsort

```
void qsort(void base, size_t nitems, size_t size,
int (compar)(const void *, const void*))
base – This is the pointer to the first element of
the array to be sorted.
nitems – This is the number of elements in the
array pointed by base.
size – This is the size in bytes of each element
in the array.
compar – This is the function that compares
two elements.
```

File management functions

fopen() create a new file or open a existing file

a opens a text file in append mode

fclose() closes a file

w opens or create a text file in writing mode.

getc() reads a character from a file

r opens a text file in reading mode

putc() writes a character to a file

fscanf() reads a set of data from a file

fprintf() writes a set of data to a file

array search

```
int main()
{
int array[100], search, c, n;
printf("Enter the number of elements in
array\n");
scanf("%d",&n);
printf("Enter %d integer(s)\n", n);
for (c = 0; c < n; c++)
scanf("%d", &array[c]);
printf("Enter the number to search\n");
scanf("%d", &search);
for (c = 0; c < n; c++)
{
if (array[c] == search) / if required element
found /
{
printf("%d is present at location %d.\n", search,
c+1);
break;
}
}
if (c == n)
printf("%d is not present in array.\n", search);
return 0;
}
```



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c - bits manipulation

&	Binary AND Operator copies a bit to the result if it exists in both operands.	(A & B) will give 12 which is 0000 1100
	Binary OR Operator copies a bit if it exists in either operand.	(A B) will give 61 which is 0011 1101
^	Binary XOR Operator copies the bit if it is set in one operand but not both.	(A ^ B) will give 49 which is 0011 0001
~	Binary Ones Complement Operator is unary and has the effect of 'flipping' bits.	(~A) will give -60 which is 1100 0011
<<	Binary Left Shift Operator. The left operands value is moved left by the number of bits specified by the right operand.	A << 2 will give 240 which is 1111 0000

char array

```
char p[] = "hello"    char *p = "hello"
```



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