# C library function - ungetc()

## **Description**

The C library function int ungetc(int char, FILE \*stream) pushes the character char (an unsigned char) onto the specified stream so that the this is available for the next read operation.

#### **Declaration**

Following is the declaration for ungetc() function.

```
int ungetc(int char, FILE *stream)
```

#### **Parameters**

- **char** This is the character to be put back. This is passed as its int promotion.
- **stream** This is the pointer to a FILE object that identifies an input stream.

### **Return Value**

If successful, it returns the character that was pushed back otherwise, EOF is returned and the stream remains unchanged.

## Example

The following example shows the usage of ungetc() function.

```
#include <stdio.h>

int main () {
    FILE *fp;
    int c;
    char buffer [256];

    fp = fopen("file.txt", "r");
    if( fp == NULL ) {
        perror("Error in opening file");
        return(-1);
    }
    while(!feof(fp)) {
        c = getc (fp);
        /* replace ! with + */
        if( c == '!' ) {
```

```
ungetc ('+', fp);
} else {
    ungetc(c, fp);
}
fgets(buffer, 255, fp);
fputs(buffer, stdout);
}
return(0);
}
```

Let us assume, we have a text file **file.txt**, which contains the following data. This file will be used as an input for our example program –

```
this is tutorials point
!c standard library
!library functions and macros
```

Now, let us compile and run the above program that will produce the following result -

```
this is tutorials point
+c standard library
+library functions and macros
```