

fputc, putc

Defined in header <stdio.h>

```
int fputc( int ch, FILE *stream );  
int putc( int ch, FILE *stream );
```

Writes a character `ch` to the given output stream `stream`. `putc()` may be implemented as a macro and evaluate `stream` more than once, so the corresponding argument should never be an expression with side effects.

Internally, the character is converted to `unsigned char` just before being written.

Parameters

ch - character to be written
stream - output stream

Return value

On success, returns the written character.

On failure, returns EOF and sets the *error* indicator (see `ferror()`) on stream.

Example

putc with error checking

Run this code

```
#include <stdio.h>  
#include <stdlib.h>  
  
int main(void)  
{  
    int ret_code = 0;  
    for (char c = 'a'; (ret_code != EOF) && (c != 'z'); c++)  
        ret_code = putc(c, stdout);  
  
    /* Test whether EOF was reached. */  
    if (ret_code == EOF)  
        if (ferror(stdout))  
        {  
            perror("putc()");  
            fprintf(stderr, "putc() failed in file %s at line # %d\n", __FILE__, __LINE__-7);  
            exit(EXIT_FAILURE);  
        }  
    putc('\n', stdout);  
  
    return EXIT_SUCCESS;  
}
```

Output:

abcdefghijklmnopqrstuvwxy

References

- C11 standard (ISO/IEC 9899:2011):
 - 7.21.7.3 The `fputc` function (p: 331)
 - 7.21.7.7 The `putc` function (p: 333)
- C99 standard (ISO/IEC 9899:1999):
 - 7.19.7.3 The `fputc` function (p: 297)
 - 7.19.7.8 The `putc` function (p: 299)

- C89/C90 standard (ISO/IEC 9899:1990):

- 4.9.7.3 The fputc function
- 4.9.7.8 The putc function

See also

putchar writes a character to stdout
(function)

C++ documentation for fputc, putc

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