

# EXIT\_SUCCESS, EXIT\_FAILURE

Defined in header <stdlib.h>

```
#define EXIT_SUCCESS /*implementation defined*/  
#define EXIT_FAILURE /*implementation defined*/
```

The EXIT\_SUCCESS and EXIT\_FAILURE macros expand into integral expressions that can be used as arguments to the exit function (and, therefore, as the values to return from the main function), and indicate program execution status.

| Constant     | Explanation                         |
|--------------|-------------------------------------|
| EXIT_SUCCESS | successful execution of a program   |
| EXIT_FAILURE | unsuccessful execution of a program |

## Notes

Both EXIT\_SUCCESS and the value zero indicate successful program execution status (see exit), although it is not required that EXIT\_SUCCESS equals zero.

## Example

Run this code

```
#include <stdio.h>  
#include <stdlib.h>  
  
int main(void)  
{  
    FILE *fp = fopen("data.txt", "r");  
    if (fp == NULL)  
    {  
        fprintf(stderr, "fopen() failed in file %s at line # %d", __FILE__, __LINE__);  
        exit(EXIT_FAILURE);  
    }  
  
    /* Normal processing continues here. */  
    fclose(fp);  
    printf("Normal Return\n");  
  
    return EXIT_SUCCESS;  
}
```

Output:

```
fopen() failed in file main.cpp at line # 9
```

## References

- C11 standard (ISO/IEC 9899:2011):
  - 7.22/3 General utilities <stdlib.h> (p: 340)
- C99 standard (ISO/IEC 9899:1999):
  - 7.20/3 General utilities <stdlib.h> (p: 306)
- C89/C90 standard (ISO/IEC 9899:1990):
  - 4.10 General utilities <stdlib.h>

## See also

C++ documentation for EXIT\_SUCCESS, EXIT\_FAILURE

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