



closedir()

The `closedir()` function is used to close a directory stream that was previously opened by `"opendir()"`. It's defined in the `"dirent.h"` system header.

This function is important to free system resources and avoid memory leaks when reading directory entries is done.

```
#include <dirent.h>

// "dirp" is a pointer to a previously opened directory stream
int closedir(DIR *dirp);
```

Returns 0 if success, closing the directory stream.

In case of failure, returns -1 and sets `"errno"`.

Common `"errno"` values:

- `"EBADF"` → `"dirp"` is not a valid directory stream

Example Usage

```
#include <sys/types.h>
#include <dirent.h>
#include <stdio.h>
#include <errno.h>

int main(void)
{
    DIR *dir;
    struct dirent *entry;

    dir = opendir(".");
    if (!dir)
    {
        perror("opendir failed");
        return (1);
    }
    while ((entry = readdir(dir)) != NULL)
        printf("%s\n", entry->d_name);
    if (closedir(dir) == -1)
    {
        perror("closedir failed");
        return (1);
    }
    return (0);
}
```