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# Four File Handling Hacks which every C/C++ Programmer should know

Difficulty Level : Medium • Last Updated : 15 Mar, 2023

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We will discuss about four file hacks listed as below-

1. Rename – Rename a file using C/C++
2. Remove – Remove a file using C/C++
3. File Size – Get the file size using C/C++
4. Check existence – Check whether a file exists or not in C/C++

## C++

```
// C++ Program to demonstrate the
// four file hacks every C/C++ must know

// Note that we are assuming that the files
// are present in the same file as the program
// before doing the below four hacks

#include <iostream>
#include <stdlib.h>
using namespace std;

// A Function to get the file size
unsigned long long int fileSize(const char *filename)
{
    // Open the file
    FILE *fh = fopen(filename, "rb");
    fseek(fh, 0, SEEK_END);
    unsigned long long int size = ftell(fh);
    fclose(fh);

    return size;
}
```

```
// A Function to check if the file exists or not
bool fileExists(const char * fname)
{
    FILE *file;
    if (file = fopen(fname, "r"))
    {
        fclose(file);
        return true;
    }
    return false;
}

// Driver Program to test above functions
int main()
{
    cout << fileSize("Passwords.txt") << " Bytes\n";
    cout << fileSize("Notes.docx") << " Bytes\n";

    if (fileExists("OldData.txt") == true )
        cout << "The File exists\n";
    else
        cout << "The File doesn't exist\n";

    rename("Videos", "English_Videos");
    rename("Songs", "English_Songs");

    remove("OldData.txt");
    remove("Notes.docx");

    if (fileExists("OldData.txt") == true )
        cout << "The File exists\n";
    else
        cout << "The File doesn't exist\n";

    return 0;
}

// This code is contributed by sarajadhav12052009
```

## C

```
// A C Program to demonstrate the
// four file hacks every C/C++ must know

// Note that we are assuming that the files
// are present in the same file as the program
// before doing the below four hacks
#include<stdio.h>
#include<stdlib.h>
#include<stdbool.h>

// A Function to get the file size
unsigned long long int fileSize(const char *filename)
{
```

```
// Open the file
FILE *fh = fopen(filename, "rb");
fseek(fh, 0, SEEK_END);
unsigned long long int size = ftell(fh);
fclose(fh);

return (size);
}

// A Function to check if the file exists or not
bool fileExists(const char * fname)
{
    FILE *file;
    if (file = fopen(fname, "r"))
    {
        fclose(file);
        return (true);
    }
    return (false);
}

// Driver Program to test above functions
int main()
{
    printf("%llu Bytes\n", fileSize("Passwords.txt"));
    printf("%llu Bytes\n", fileSize("Notes.docx"));

    if (fileExists("OldData.txt") == true )
        printf("The File exists\n");
    else
        printf("The File doesn't exist\n");

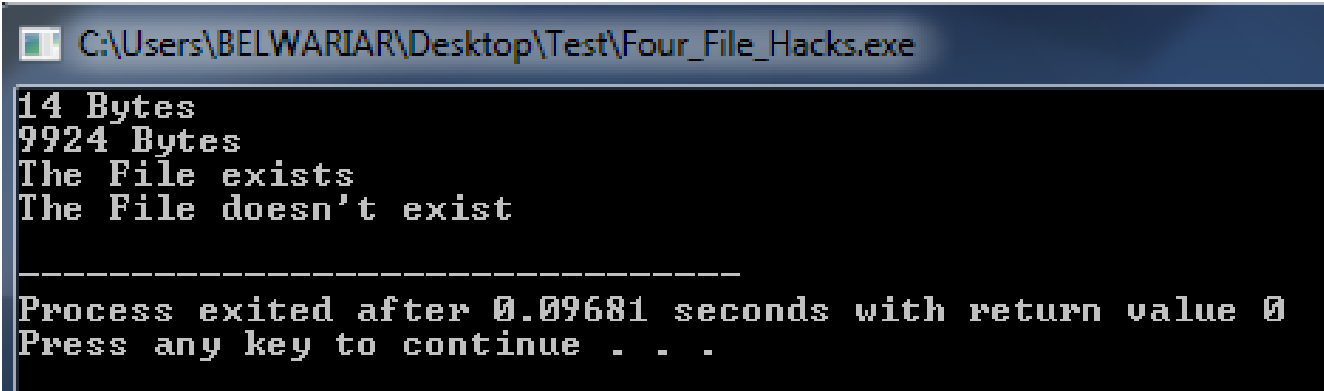
    rename("Videos", "English_Videos");
    rename("Songs", "English_Songs");

    remove("OldData.txt");
    remove("Notes.docx");

    if (fileExists("OldData.txt") == true )
        printf("The File exists\n");
    else
        printf("The File doesn't exist\n");

    return 0;
}
```

Output:








Screenshot before executing the program :

AD

Name	Date modified	Type	Size
PythonPrograms	19-06-2016 08:09	File folder	
Songs	19-06-2016 08:07	File folder	
Videos	19-06-2016 08:07	File folder	
Four_File_Hacks	19-06-2016 08:19	C++ Source File	2 KB
Notes	19-06-2016 08:19	Microsoft Office ...	10 KB
OldData	19-06-2016 08:08	Notepad++ Docu...	1 KB
Passwords	19-06-2016 08:10	Notepad++ Docu...	1 KB

Screenshot after executing the program :

Name	Date modified	Type	Size
 English_Songs	19-06-2016 08:07	File folder	
 English_Videos	19-06-2016 08:07	File folder	
 PythonPrograms	19-06-2016 08:09	File folder	
 Four_File_Hacks	19-06-2016 08:33	C++ Source File	2 KB
 Passwords	19-06-2016 08:10	Notepad++ Docu...	1 KB

This article is contributed by **Rachit Belwariar**. If you like GeeksforGeeks and would like to contribute, you can also write an article and mail your article to review-team@geeksforgeeks.org. See your article appearing on the GeeksforGeeks main page and help other Geeks.

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