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

time.h header file in C with Examples

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Conditional or Ternary Operator (?:) in C/C++

Difference between C and C#

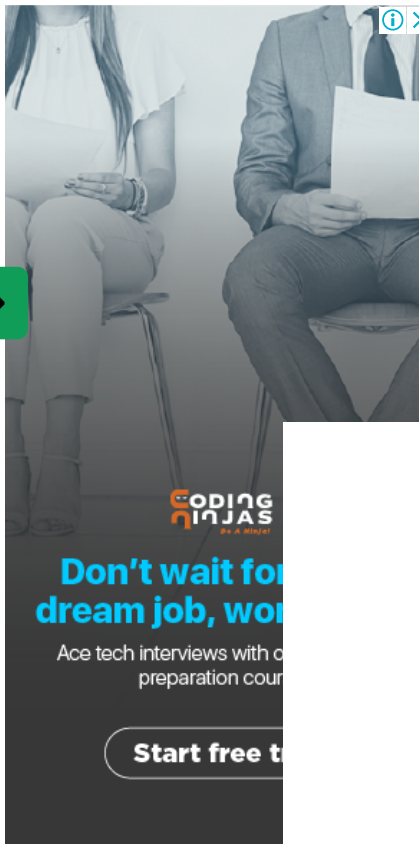time.h localtime() function in C with Examples

asctime() and

asctime_s()
functions in C
with Examples

return
statement in
C/C++ with
Examples

size of char
datatype and
char array in C

Arrow
operator -> in
C/C++ with
Examples

Logical Not !
operator in C
with Examples

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

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++

```cpp
// 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 doen'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;
}
```
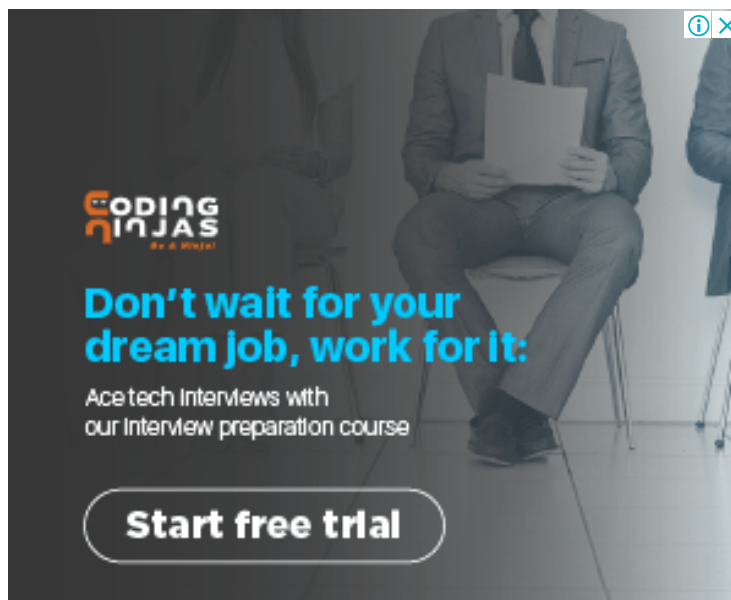
Output:

```
C:\Users\BELWARIAR\Desktop\Test\Four_File_Hacks.exe
14 Bytes
9924 Bytes
The File exists
The File doesn't exist

---------------------------------
Process exited after 0.09681 seconds with return value 0
Press any key to continue . . .
```

Screenshot before executing the program :

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

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