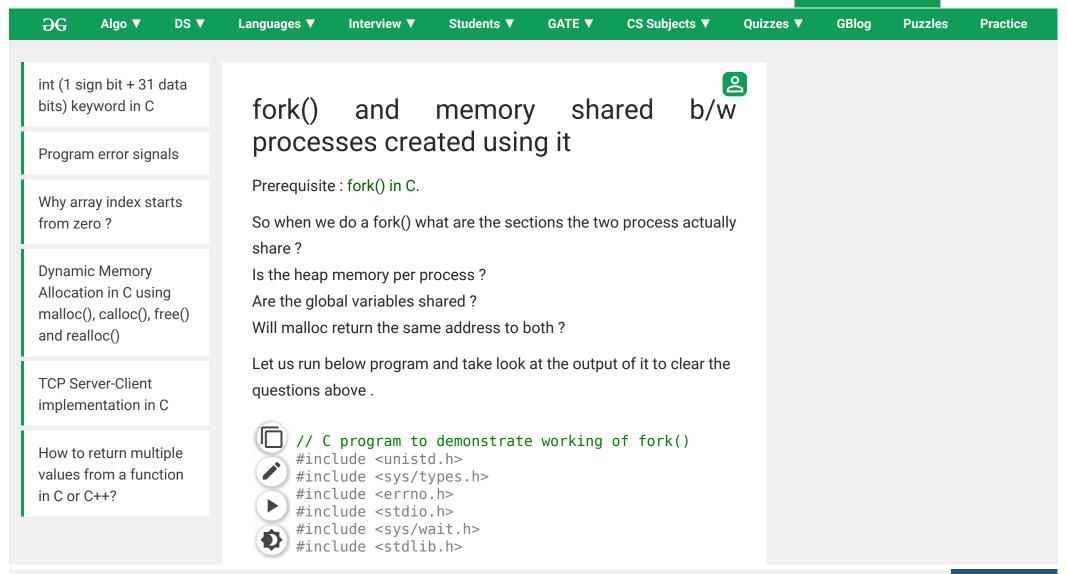


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Comments in C/C++

time() function in C

```
int globalVar; /* A global variable*/
int main(void)
    int localVar = 0:
    int* p = (int*) malloc(2);
    pid t childPID = fork();
    // Putting value at allocated address
    *p = 0:
    if (childPID >= 0) // fork was successful
        if (childPID == 0) // child process
            printf("\n Child Process Initial Value
                   " = %d, qlobalVar = %d", localVa
                   globalVar);
            localVar++:
            globalVar++;
            int c = 500:
            printf("\n Child Process :: localVar =
                   "globalVar = %d", localVar, glo!
            printf("\n Address of malloced mem chi]
                   "and value is %d", p, *p);
            printf("\n lets change the value point()
            *p = 50:
            printf("\n Address of malloced mem chil
                   "and value is %d", p, *p);
            printf("\n lets change the value point()
                   "malloc in child");
            *p = 200;
            printf("\n Address of malloced mem chi
                   "and value is %d\n\n", p, *p)
```

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```
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Pointer in C++

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Difference between const int*. const int * const, and int const *

How to avoid Structure Padding in C?

strrev() function in C

Difference between Call by Value and Call by Reference

```
else // Parent process
        printf("\n Parent process Initial Value
               "localVar = %d, globalVar = %d"
               localVar, globalVar);
        localVar = 10:
        globalVar = 20;
        printf("\n Parent process :: localVar =
                globalVar = %d", localVar, glo!
        printf("\n Address of malloced mem pare
               "and value is %d", p, *p);
        *p = 100;
        printf("\n Address of malloced mem pare
               "and value is %d", p, *p);
        printf("\n lets change the value point()
                " malloc in child");
        *p = 400;
        printf("\n Address of malloced mem chil
               " and value is %d \n", p, *p);
else // fork failed
    printf("\n Fork failed, quitting!!!!!\n")
    return 1:
return 0;
```

```
Parent process Initial Value :: localVar = 0, globalV
Parent process :: localVar = 10, globalVar = 20
```

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C/C++

Inline function in C

Address of malloced mem parent= 0x1bb5010 and value i Address of malloced mem parent= 0x1bb5010 and value i lets change the value pointed my malloc in child Address of malloced mem child = 0x1bb5010 and value i

Child Process Initial Value :: localVar = 0, globalVa Child Process :: localVar = 1, globalVar = 1
Address of malloced mem child = 0x1bb5010 and value i lets change the value pointed my malloc
Address of malloced mem child = 0x1bb5010 and value i lets change the value pointed my malloc in child
Address of malloced mem child = 0x1bb5010 and value i

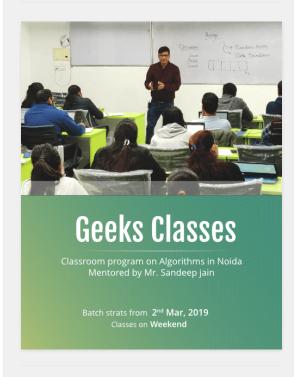
Explanation ::

- 1. So each process child and parent both have their own copy of globalVariable and localvar otherwise if they had shared it, we would have got "Child Process Initial Value :: localVar = [10], globalVariable[20] " in child process which was assigned in parent process which executed first but we didn't.
- 2. Though address of memory returned by malloc is same but in actual they are pointing to or mapped to different physical address otherwise when parent assigned value of 100 at memory address 0x1535010 the same 100 we should have got in child but we got 0.

This article is contributed by **Abhilash Kumar Jaiswal** . If you like GeeksforGeeks and would like to contribute, you can also write an article using contribute.geeksforgeeks.org or mail your article to

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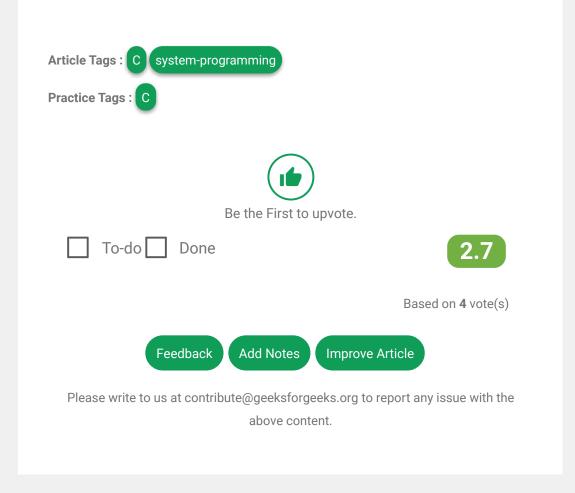
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