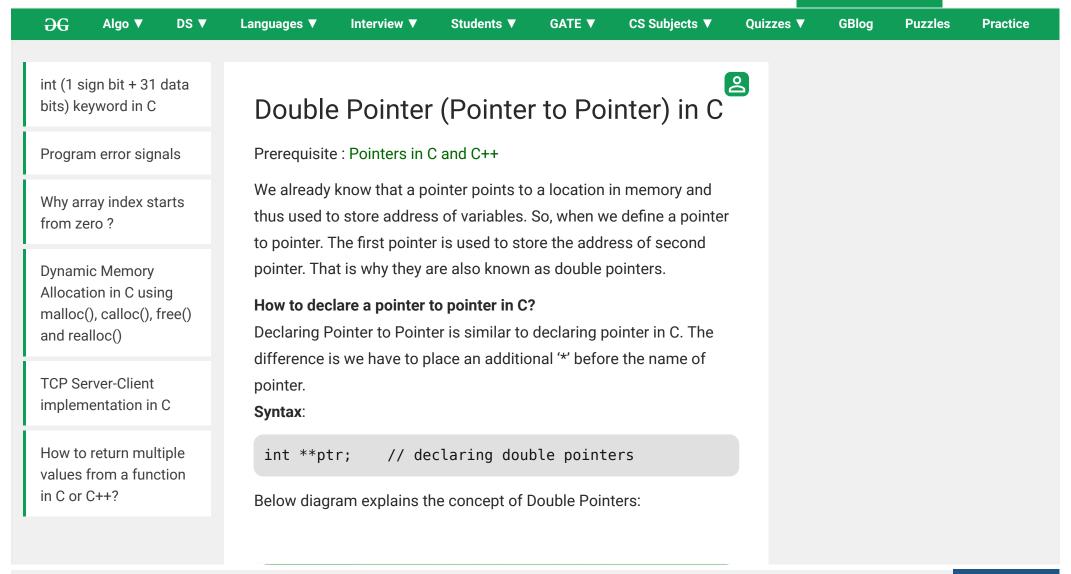


Google Custom Search

Courses

Login

Write an Article



Commonly Asked C Programming Interview Questions | Set 3

Applications of Pointers in C/C++

Pre-increment and Post-increment in C/C++

"static const" vs "#define" vs "enum"

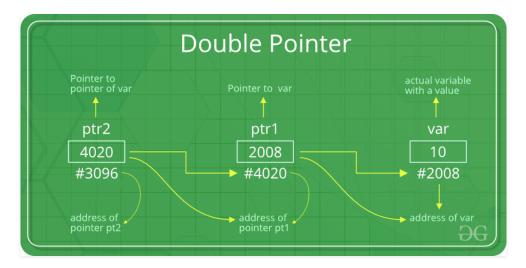
Sum of array Elements without using loops and recursion

Comments in C/C++

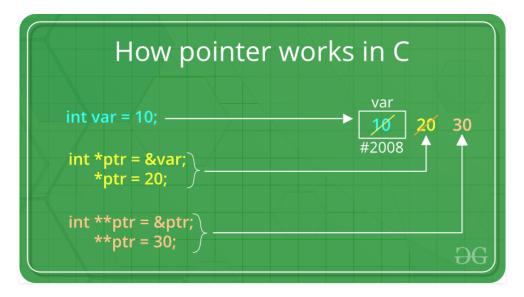
How to find Segmentation Error in C & C++? (Using GDB)

Why strcpy and strncpy are not safe to use?

time() function in C



The above diagram shows the memory representation of a pointer to pointer. The first pointer ptr1 stores the address of the second pointer ptr2 and the second pointer ptr2 stores the address of the variable.



Let us understand this more clearly with the help of below program:

Most popular in C

Loader in C/C++

GDB (Step by Step Introduction)

Communication between two process using signals in C

tolower() function in C

Passing Reference to a Pointer in C++

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

How does a C program executes?

Difference between Call by Value and Call by Reference

How to avoid Structure Padding in C?

strrev() function in C

```
// C program to demonstrate pointer to pointer
int main()
    int var = 789;
    // pointer for var
    int *ptr2;
    // double pointer for ptr2
    int **ptrl;
    // storing address of var in ptr2
    ptr2 = \&var;
    // Storing address of ptr2 in ptr1
    ptr1 = &ptr2;
    // Displaying value of var using
    // both single and double pointers
    printf("Value of var = %d\n", var );
    printf("Value of var using single pointer = %d'
     printf("Value of var using double pointer = %d'
   return 0;
```

Output:

```
Value of var = 789

Value of var using single pointer = 789

Value of var using double pointer = 789
```

Related Post:

Function Pointer in C

Dividing a Large file into Separate Modules in C/C++, Java and Python

C program to store Student records as Structures and Sort them by Name

Program to copy the contents of one array into another in the reverse order

Difference between C and C++

strlen() function in c

More related articles in C

Measure execution time with high precision in C/C++

Program to Reverse a String using Pointers

Why does sizeof(x++) not increment x in C?

Difference between fundamental data types and derived data types

Interesting facts about C Language

Code Optimization Technique (logical AND and logical OR)

#pragma Directive in
C/C++

C++: Methods of code shortening in competitive programming This article is contributed by **Harsh Agarwal**. If you like GeeksforGeeks and would like to contribute, you can also write an article using contribute.geeksforgeeks.org or mail your article to contribute@geeksforgeeks.org. See your article appearing on the GeeksforGeeks main page and help other Geeks.

Please write comments if you find anything incorrect, or you want to share more information about the topic discussed above.

Recommended Posts:

Delete multiple occurrences of key in Linked list using double pointer 'this' pointer in C++

C++ | this pointer | Question 4

A C/C++ Pointer Puzzle

Pointer to an Array | Array Pointer

C++ | this pointer | Question 5

C++ | this pointer | Question 3

C++ | this pointer | Question 2

C++ | this pointer | Question 1

Opaque Pointer

void pointer in C / C++

NULL pointer in C

Pointer vs Array in C

Function Pointer in C

Program to check if two strings are same or not

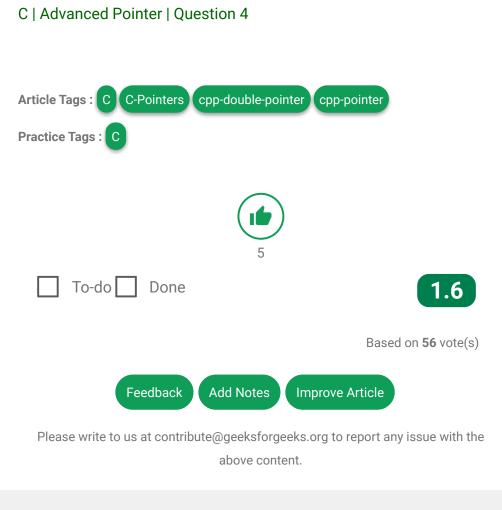
C program to find the length of a string



Most visited in C

SQL using C/C++ and SQLite





Previous

I Hygienic Macros : An Executing main() in C/C++ - >I

Introduction behind the scene

How to modify a const variable in Difference between Structure and Array in C Is sizeof for a struct equal to the sum of sizeof of each member? Different ways to Initialize all members of an array to the same value in C Find the Nth term of the series 14, 28, 20, 40,.... C program to Find the Largest **Number Among Three Numbers** clock() function in C/C++ Difference between C and Python Different ways to initialize a variable in C/C++ Difference between Java and C

language

Writing code in comment? Please use ide.geeksforgeeks.org, generate link and share the link here.

Load Comments

Share this post!

getopt() function in C to parse command line arguments

toupper() function in C

Similarities and Differences between Ruby and C language

chdir() in C language with Examples

GeeksforGeeks

A computer science portal for geeks

710-B, Advant Navis Business Park, Sector-142, Noida, Uttar Pradesh - 201305 feedback@geeksforgeeks.org

COMPANY

About Us Careers Privacy Policy Contact Us

LEARN

Algorithms
Data Structures
Languages
CS Subjects
Video Tutorials

PRACTICE

Company-wise
Topic-wise
Contests
Subjective Questions

CONTRIBUTE

Write an Article
Write Interview Experience
Internships
Videos

