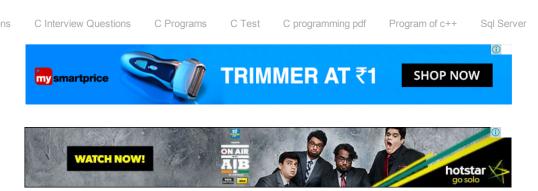
C programming Interview questions and answers

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c quiz questions with answers C language quiz questions and answers with explanation (1) What will be output if you will compile and execute the following c code? #include<stdio.h> int main(){ int a=5;float b; printf("%d", sizeof(++a+b)); printf(" %d",a); return 0; (a) 2 6 (b) 4 6 (c)25(d) 4 5 (e)Compiler error Output: (d) Explanation: ++a +b =6 + Garbage floating point number =Garbage floating point number //From the rule of automatic type conversion Hence sizeof operator will return 4 because size of float data type in c is 4 byte. Value of any variable doesn't modify inside sizeof operator. Hence value of variable a will remain 5. Properties of sizeof operator. Operators tutorial (2) What will be output if you will compile and execute the



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C PROGRAMMING QUESTIONS AND ANSWER

```
following c code?
#include<stdio.h>
int main(){
 char *str;
 scanf("%[^\n]", str);
 printf("%s",str);
  return 0;
(a) It will accept a word as a string from user.
(b) It will accept a sentence as a string from user.
(c) It will accept a paragraph as a string from user.
(d) Compiler error
(e) None of above
Output: (b)
Explanation:
Task of % [^{t}] is to take the stream of characters until it
doesn't receive new line character '\t' i.e. enter button of your
keyboard.
General meaning of %[^p]
String tutorial.
(3) What will be output if you will compile and execute the
following c code?
#include<stdio.h>
int main(){
 int array[3]={5};
  int i;
  for(i=0;i<=2;i++)
   printf("%d ",array[i]);
  return 0;
(a) 5 garbage garbage
(b) 5 0 0
(c)5 null null
(d) Compiler error
(e) None of above
Output: (b)
Explanation:
Storage class of an array which initializes the element of the
array at the time of declaration is static. Default initial value
of static integer is zero.
Properties of static storage class.
How to read complex array.
(4) What will be output if you will compile and execute the
following c code?
#include<stdio.h>
void call(int,int,int);
int main(){
  int a=10;
  call(a,a++,++a);
```

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There was an error in this gadget



```
return 0;
void call(int x,int y,int z){
  printf("%d %d %d",x,y,z);
(a) 10 10 12
(b) 12 11 11
(c) 12 12 12
(d) 10 11 12
(e) Compiler error
Output: (b)
Explanation:
Default parameter passing scheme of c is cdecl i.e. argument of
function will pass from right to left direction.
               call(a, a++,
First ++a will pass and a=11
Then a++ will pass and a=11
Then a will pass and a=12
What is pascal and cedecl parameter passing scheme?
Concept of variable numbers of argument.
(5) What will be output if you will compile and execute the
following c code?
#include<stdio.h>
int main(){
 int x=5, y=10, z=15;
 printf("%d %d %d");
  return 0;
}
(a) Garbage Garbage Garbage
(b) 5 10 15
(c) 15 10 5
(d) Compiler error
(e) Run time error
Output: (c)
Explanation:
Auto variables are stored in stack as shown in following figure.
```



Stack follow LIFO data structure i.e. last come and first out. First d will print then content of two continuous bytes from the top of the stack and so on.

Memory map tutorial.

#include<stdio.h>

int main(){
 int a=5;
 int b=10;

More questions based on memory map.

(6) What will be output if you will compile and execute the following c code?

```
#include<stdio.h>
int main(){
 register int i,x;
  scanf("%d",&i);
 x=++i + ++i + ++i;
 printf("%d",x);
  return 0;
(a) 17
(b) 18
(c)21
(d) 22
(e)Compiler error
Output: (e)
Explanation:
In c register variable stores in CPU it doesn't store in RAM. So
register variable have not any memory address. So it is illegal
to write &a.
Complete tutorial of storage class with examples.
Properties of register storage class.
(7) What will be output if you will compile and execute the
following c code?
```

```
int a=2;
   a++;
   b++;
 printf("%d %d",a,b);
  return 0;
(a)510
(b) 6 11
(c) 5 11
(d) 6 10
(e) Compiler error
Output: (c)
Explanation:
Default storage class of local variable is auto. Scope and
visibility of auto variable is within the block in which it has
declared. In c, if there are two variables of the same name then
we can access only local variable. Hence inside the inner block
variable a is local variable which has declared and defined
inside that block. When control comes out of the inner block
local variable a became dead.
Complete tutorial of storage class with examples.
What is auto storage class?
(8) What will be output if you will compile and execute the
following c code?
#include<stdio.h>
int main(){
 float f=3.4e39;
 printf("%f",f);
  return 0;
}
(a) 3.4e39
(b) 3.40000...
(c) + INF
(d) Compiler error
(e) Run time error
Output: (c)
Explanation:
If you will assign value beyond the range of float data type to
the float variable it will not show any compiler error. It will
store infinity.
Data type tutorial with examples.
Concept of float data type.
(9) What will be output if you will compile and execute the
following c code?
#include<stdio.h>
int main(){
  enum color{
```

```
RED, GREEN=-20, BLUE, YELLOW
 };
 enum color x;
 x = YELLOW;
 printf("%d",x);
 return 0;
(a) - 22
(b) - 18
(c)1
(d)Compiler error
(e) None of above
Output: (b)
Explanation:
Default value of enum constant = value of previous enum constant
Default value of first enum constant=0
Hence:
BLUE=GREEN+1=-20+1=-19
YELLOW=BLUE+1=-19+1=-18
Complete tutorial of enum data type with examples.
(10) What will be output if you will compile and execute the
following c code?
#include<stdio.h>
int main(){
 asm{
   mov bx,8;
   mov cx,10
   add bx,cx;
 printf("%d", BX);
 return 0;
}
(a) 18
(b)8
(c)0
(d) Compiler error
(e) None of above
Output: (a)
Explanation:
asm keyword is used to write assembly language program in c. mov
command stores the constants in the register bx, cx etc. add
command stores the content of register and stores in first
register i.e. in bx.
How to write assembly language program by c?
Advance c tutorial.
(11) What will be output if you will compile and execute the
following c code?
#include<stdio.h>
int main(){
```

```
enum xxx{
     a, b, c=32767, d, e
  };
 printf("%d",b);
 return 0;
}
(a)0
(b) 1
(c) 32766
(d) Compiler error
(e) None of above
Output: (d)
Explanation:
Size of enum constant is size of sign int. Since value of
c=32767. Hence value of d will be 32767+1=32768 which is beyond
the range of enum constant.
Tutorial of data type with examples.
(12) What will be output if you will compile and execute the
following c code?
#include<stdio.h>
int main(){
 signed int a=-1;
 unsigned int b=-1;
 if(a==b)
   printf("%d %d",a,b);
  else
   printf("Not equal");
 return 0;
(a) -1 -1
(b) -1 32767
(c)-1-32768
(d) Not equal
(e)Compiler error
Output: (a)
Explanation:
What is automatic type conversion?
(13) What will be output if you will compile and execute the
following c code?
#include<stdio.h>
int main(){
  float f=5.5f;
  float x;
```

```
printf("%f",x);
 return 0;
(a) 1.500000
(b) 1.000000
(c) 5.500000
(d)Compiler error
(e) None of above
Output: (d)
Explanation:
Modular division is not allowed with floating number.
Properties of modular division.
Operators tutorial with examples.
(14) What will be output if you will compile and execute the
following c code?
#include<stdio.h>
int main(){
int a=-20;
 int b=-3;
 printf("%d",a%b);
 return 0;
}
(a)2
(b) - 2
(c) 18
(d) - 18
(e)Compiler error
Output: (b)
Explanation:
Sign of resultant of modular division depends upon only the sign
of first operand.
Properties of modular division.
Operator's tutorial with examples.
(15) What will be output if you will compile and execute the
following c code?
#include<stdio.h>
int main(){
 char c='0';
 printf("%d %d", sizeof(c), sizeof('0'));
 return 0;
(a)1 1
(b) 2 2
(c)1 2
(d) 2 1
(e) None of above
```

```
Output: (c)
Size of char data type is one byte while size of character
constant is two byte.
Why character constant is of two byte in c?
(16) What will be output if you will compile and execute the
following c code?
#include<stdio.h>
int main(){
 char *url="c:\tc\bin\rw.c";
  printf("%s",url);
 return 0;
(a)c:\tc\bin\rw.c
(b)c:/tc/bin/rw.c
(c)c: c inw.c
(d)c:cinw.c
(e)w.c in
Output: (e)
Explanation:
1. \t is tab character which moves the cursor 8 space right.
2. \b is back space character which moves the cursor one space
back.
3. \r is carriage return character which moves the cursor
beginning of the line.
                 c \b
Complete string tutorial with examples.
Properties of escape characters.
(17) What will be output if you will compile and execute the
following c code?
#include<stdio.h>
int main(){
 goto abc;
 printf("main");
  return 0;
void dispaly() {
  abc:
```

```
printf("display");
(a) main
(b) display
(c) maindisplay
(d) displaymain
(e)Compiler error
Output: (e)
Explanation:
Label of goto cannot be in other function because control cannot
move from one function to another function directly otherwise it
will show compiler error: unreachable label
What is goto keyword.
Complete function tutorial with examples.
(18) What will be output if you will compile and execute the
following c code?
#include<stdio.h>
int main(){
 int i=3;
 if(3==i)
   printf("%d",i<<2<<1);
 else
   printf("Not equal");
}
(a)1
(b) 48
(c)24
(d) Not equal
(e)Compiler error
Output: (c)
Explanation:
Associative of bitwise left shifting operator is left to right.
In the following expression:
There are two bitwise operators. From rule of associative
leftmost operator will execute first.
i <<>><>
After execution of leftmost bitwise left shifting operator:
so i=i*pow(2,2)
=3*
What is associative?
What is precedence?
Tutorial of bitwise operators.
(19) What will be output if you will compile and execute the
following c code?
#include<stdio.h>
int main(){
  int x=2, y=3;
  if(x+y \le 5)
    printf("True");
```

```
printf("False");
(a) True
(b) False
(c)Compiler error: Lvalued required
(d) Compiler error: Invalid expression
(e) None of above
Output: (a)
Explanation:
Expression x+y \le 5
=> 2+3 <=5
=> 5<=5 is true because 5 is either greater than 5 or equal to 5.
Operator tutorial with examples.
(20) What will be output if you will compile and execute the
following c code?
#include<stdio.h>
int main(){
const int i=5;
 i++;
 printf("%d",i);
  return 0;
}
(a)5
(b)6
(c)0
(d)Compiler error
(e) None of above
Output: (d)
Explanation:
We cannot modify the const variable by using increment operator.
Properties of const keyword.
Properties of volatile keyword.
Data type tutorial with examples.
(21) What will be output if you will compile and execute the
following c code?
#include<stdio.h>
int main(){
 int i=11;
 int const * p=&i;
 p++;
  printf("%d",*p);
  return 0;
(a) 11
(b) 12
(c) Garbage value
```

```
(d) Compiler error
(e) None of above
Output: (c)
Explanation:
In the following line:
int const * p=&i;
*p i.e. content of p is constant pointer p is not constant
pointer. So we can modify the pointer p. After incrementing the
pointer it will point next memory location and its content will
any garbage value.
                            GARBAGE VALUE GARBAGE VALUE
                    11
                   5000
                                           5004
                               5002
                            5002
Note: We have assumed arbitrary memory address.
To make pointer p as constant pointer write:
int const * const p=&i;
Properties of const keyword.
Properties of volatile keyword.
(22) What will be output if you will compile and execute the
following c code?
#include<stdio.h>
int main(){
 int a=15, b=10, c=5;
 if(a>b>c)
   printf("Trre");
 else
   printf("False");
 return 0;
(a) True
(b) False
(c) Run time error
(d) Compiler error
```

(e) None of above

Output: (b)

Explanation:

Relation operator in c always returns 1 when condition is true and 0 when condition is false. So in the following expression a > b > c

Associative of relational operators are left to right order of execution will be following manner:



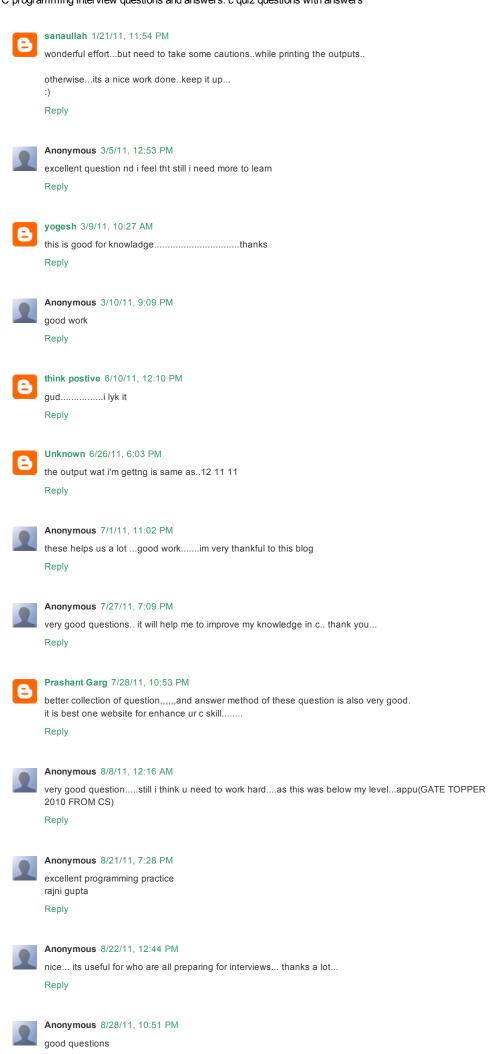
```
Hence in this expression first solve bolded condition: a > b > c
Since condition a>b is true so result will be 1. Now expression
became:
1 > c
Since this condition is false so result will be 0. Thus else part
will execute.
What is associative?
What is precedence?
(23) What will be output if you will compile and execute the
following c code?
#include<stdio.h>
int main(){
 float f;
 f=3/2;
 printf("%f",f);
 return 0;
}
(a)1.5
(b) 1.500000
(c)1.000000
(d)Compiler error
(e) None of above
Output: (c)
Explanation:
In the following expression:
f=3/2 both 3 and 2 are integer constant hence its result will
also be an integer constant i.e. 1.
Properties of floating type numbers.
(24) What will be output if you will compile and execute the
following c code?
#include<stdio.h>
int main(){
int a=sizeof(a);
 a=modify(a);
 printf("%d",a);
 return 0;
int modify(int x) {
 int y=3;
 _{\text{AX=x+y}};
 return;
(a)2
(b)3
(c)5
(d) Garbage value
(e) None of above
Output: (c)
```

```
Explanation:
AX is register pseudo variable. It stores return type of
function.
What is register pseudo variable?
What is global identifier?
(25) What will be output if you will compile and execute the
following c code?
#define PRINT printf("c");printf("c++");
int main(){
 float a=5.5;
 if(a==5.5)
    PRINT
 else
   printf("Not equal");
 return 0;
(a)c c++
(b) Not equal
(c)c
C++
(d) Compiler error
(e) None of above
Output: (d)
Explanation:
First see intermediate file:
trv.c 1:
try.c 2: int main(){
try.c 3: float a=5.5;
try.c 4: if(a==5.5)
try.c 5: printf("c");printf("c++");
try.c 6: else
try.c 7: printf("Not equal");
try.c 8: }
try.c 9: return 0;
try.c 10:
If there are more than one statement in if block then it is
necessary to write inside the \{\ \} otherwise it will show compiler
error: misplaced else
More questions on preprocessors.
Preprocessor tutorial with examples.
(26) What will be output if you will compile and execute the
following c code?
#include<stdio.h>
int main(){
 int array[2][2][3]=\{0,1,2,3,4,5,6,7,8,9,10,11\};
 printf("%d", array[1][0][2]);
 return 0;
(a) 4
```

```
C programming Interview questions and answers: c quiz questions with answers
  (b)5
  (c)6
  (d)7
  (e)8
  Output: 8
  Explanation:
  array[1][0][2] means 1*(2*3)+0*(3)+3=9<sup>th</sup>
                                                                       element
                                                                                     of
                                                                                            array
  starting from zero i.e. 8.
  Questions on two dimension array.
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  53 comments:
        Anonymous 9/1/10, 12:30 PM
        very good set of questions...it made me realize that i still need to study c alot..
        Reply
        Anonymous 9/12/10, 12:35 PM
        Good questions. The blog is very knowledgeable. Please post explanations for preprocessor questions.
        Thank you.
        Reply
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        I THINK THESE ARE VERY EFFECTIVE
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        superb questions......
         Reply
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        Anonymous 11/15/10, 8:08 PM
         great questions.....thanks for designing this blog for learners like us.....it is helping a lot...
        Reply
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        commendable job done by you guyz... it helps in winning a quiz also.... all tx to you...keep up the gr8
        work....
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        thanx...
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         superb questions
         Reply
```

ankit 1/14/11, 7:09 PM Good questions on c...

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```
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         Reply
         Anonymous 9/11/11, 8:19 PM
         nic questions...
         Reply
         Anonymous 10/30/11, 12:57 PM
         thnk u soo much it helps me 2 knw more abt c lang.
         Reply
         Anonymous 11/16/11, 5:14 PM
         very very good questions
         Thanks a lot
         Reply
         Anonymous 12/1/11, 7:48 PM
         good collection of questions
         Reply
         Anonymous 12/16/11, 11:53 PM
         nice set of questions.specially the escape chracter question(c:\\....) was superb.
         if possible send some more questions to my mail.
         bbsm420024@gmail.com
         Reply
         Anonymous 12/18/11, 8:32 PM
         superb collection still post som new ones
         Reply
         Anonymous 12/29/11, 10:10 PM
         good collection of questions with nice explanation...keep it up....
         Reply
         Anonymous 2/7/12, 11:32 AM
         thank u very much giving us a helping hand
         Reply
         Anonymous 2/22/12, 8:09 PM
         NICE, IT IS VERY USEFULL
         Reply
         Annonymus 2/25/12, 7:55 AM
         hey can any one tell me why the output of the following program is 1000
```

```
#include
int main()
int i;
i=f();
printf("%d",i);
int f()
_AX=1000;
Reply
```

Replies



Anonymous 6/1/13, 4:06 PM

this AX is name for Accumulator.. generally used in turbo C if you compile this code in GCC compiler.. it will be simple error. but in turbo C case. the Accumulator has 1000 in it.. and that value will be taken by i, the variable who called it. and answer will be 1000.

Reply



Anonymous 3/13/12, 2:01 AM

very nice questions.. i need to work hard

Reply



Anonymous 3/13/12, 2:05 AM

_AX is register pseudo variable. It stores return type of function.therefore in function f()AX returns value 1000,which in return store in i

Reply



Nasreen Farook 8/17/12, 6:49 PM

Good questions. Try to post more questions. Good job

Reply



mkv 12/4/12, 11:31 PM

very good set of question with nice explanation!

Reply



mkv 12/4/12, 11:37 PM

What will be output if you will compile and execute the following c code?

#include
#include
int main()
{
 char str[]="India\0BX\0";
 printf("%s",str);
 return 0;
}

Reply



dharmendra 4/23/13, 2:38 PM

very useful questions....good work

Reply



Shashank Jain 6/1/13, 3:14 PM

There is error in 11th Question. answer will be "1" not compile error. you are printing b not d.. check it once more !!

Reply



Anonymous 7/15/13, 1:37 PM

thank you it was really useful

Reply



Rohan Rawlani 7/20/13, 12:51 PM

good selection of questions..

it will probably cover the whole c language.

Reply



LAVISH PATODI 8/3/13, 1:44 AM

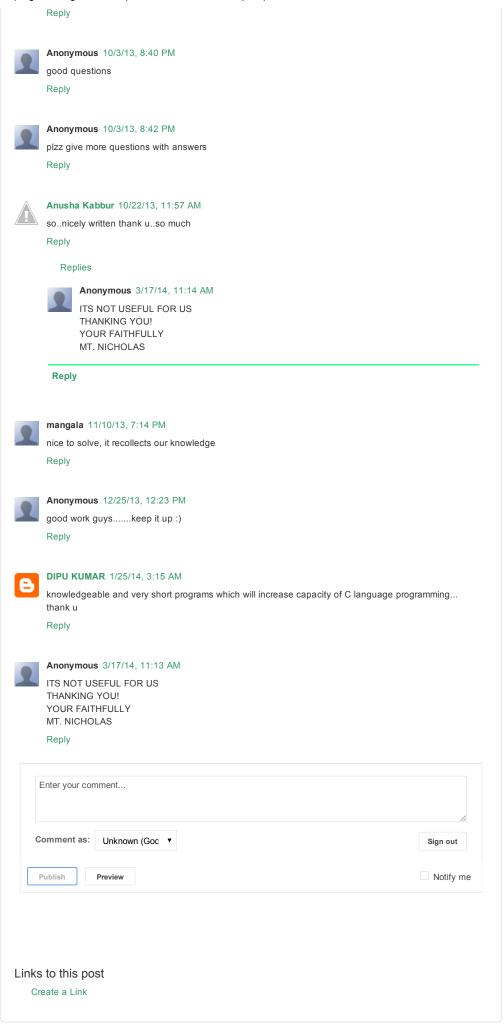
nice questions., good work buddy,.,!!

Reply



Anonymous 8/6/13, 4:03 PM

 $\ \ nice\ question, specially\ the\ explanation\ given\ is\ very\ easy\ and\ understandable, do\ post\ some\ more$



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