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## **Online C Programming Test :: C Programming Test 7**

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Marks : 17/20		
Total number of questions	:	20
Number of answered questions	:	20
Number of unanswered questions	:	0

## Test Review: View answers and explanation for this test.

1	A <i>short integer</i> is at least 16 bits wide and a <i>long integer</i> is at least 32 bits wide.  ✓ A.True   B.False   ■
,	Your Answer: Option A
(	Correct Answer: Option A
]	Explanation:
,	The basic C compiler is 16 bit compiler, below are the size of it's data types The size of <i>short int</i> is 2 bytes wide(16 bits). The size of <i>long int</i> is 4 bytes wide(32 bits).
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]	Discuss about this problem : <u>Discuss in Forum</u>
2. V	Which of the following correctly shows the hierarchy of arithmetic operations in C? $\square$ A./+*- $\bowtie$

Your Answer: Option D

B.\* - / + ※C.+ - / \* ※Ø D./ \* + -

Correct Answer: Option D

Explanation:

Simply called as BODMAS (Bracket of Division, Multiplication, Addition and Subtraction).

How Do I Remember? BODMAS!

- B Brackets first
- O Orders (ie Powers and Square Roots, etc.)
- **DM** Division and Multiplication (left-to-right)
- AS Addition and Subtraction (left-to-right)

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- 3. In which order do the following gets evaluated
  - 1. Relational
  - 2. Arithmetic
  - 3. Logical
  - 4. Assignment
  - ✓ A.2134
    ✓
  - B. 1234 💥
  - C.4321 💥
  - D.3214 💥

Your Answer: Option A

Correct Answer: Option A

Explanation:

- 2. Arithmetic operators: \*, /, %, +, -
- 1. Relational operators: >, <, >=, <=, ==, !=
- 3. Logical operators : !, &&, ||
- 4. Assignment operators: =

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- 4. Associativity has no role to play unless the precedence of operator is same.
  - A.True
  - ☑ B. False 
    ※

Your Answer: Option B

Correct Answer: Option A

Explanation:

Associativity is only needed when the operators in an expression have the same precedence. Usually + and - have the same precedence.

Consider the expression 7 - 4 + 2. The result could be either (7 - 4) + 2 = 5 or 7 - (4 + 2) = 1. The former result corresponds to the case when + and - are left-associative, the latter to when + and - are right-associative.

Usually the addition, subtraction, multiplication, and division operators are left-associative, while the exponentiation, assignment and conditional operators are right-associative. To prevent cases where operands would be associated with two operators, or no operator at all, operators with the same precedence must have the same associativity.

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```
#include<stdio.h>
#include<math.h>
int main()
{
    float a=5.375;
    char *p;
    int i;
    p = (char*)&a;
    for(i=0; i<=3; i++)
        printf("%02x\n", (unsigned char)p[i]);
    return 0;
}

A.40 AC 00 00 X
B.04 CA 00 00 X
C.00 00 AC 40 C
D.00 00 CA 04 X</pre>
```

Your Answer: Option C

Correct Answer: Option C

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6.A *float* occupies 4 bytes. If the hexadecimal equivalent of these 4 bytes are A, B, C and D, then when this *float* is stored in memory in which of the following order do these bytes gets stored?

```
■ A.ABCD 💥
```

- B.DCBA 💥
- ☐ C.0xABCD 💥
- D.Depends on big endian or little endian architecture

Your Answer: Option D

Correct Answer: Option D

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```
#include<stdio.h>
int sumdig(int);
```

```
int main()
{
    int a, b;
    a = sumdig(123);
    b = sumdig(123);
    printf("%d, %d\n", a, b);
    return 0;
int sumdig(int n)
    int s, d;
    if(n!=0)
        d = n\%10;
        n = n/10;
        s = d+sumdig(n);
    else
        return 0;
    return s;
}
■ A.4, 4 ※
■ B.3, 3 ×

✓ C.6, 6

✓
■ D.12, 12 💥
```

Your Answer: Option C

Correct Answer: Option C

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8. Point out the error in the program

```
f(int a, int b)

{
    int a;
    a = 20;
    return a;
}

A.Missing parenthesis in return statement *

B.The function should be defined as int f(int a, int b) *

C.Redeclaration of a 

D.None of above *

Vour Answer: Ontion P
```

Your Answer: Option B

Correct Answer: Option C

Explanation:

f(int a, int b) The variable a is declared in the function argument statement.

int a; Here again we are declaring the variable a. Hence it shows the error "Redeclaration of a"

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9. What will be the output of the program?

```
#include<stdio.h>
#define SQUARE(x) x*x

int main()
{
    float s=10, u=30, t=2, a;
    a = 2*(s-u*t)/SQUARE(t);
    printf("Result = %f", a);
    return 0;
}

✓ A.Result = -100.000000 ✓

— B.Result = -25.000000 ×

— C.Result = 0.000000 ×

— D.Result = 100.0000000 ×
```

Your Answer: Option A

Correct Answer: Option A

Explanation:

The macro function SQUARE(x) x\*x calculate the square of the given number 'x'. (Eg:  $10^2$ )

**Step 1**: float s=10, u=30, t=2, a; Here the variable s, u, t, a are declared as an floating point type and the variable s, u, t are initialized to 10, 30, 2.

Step 2: a = 2\*(s-u\*t)/SQUARE(t); becomes,

 $\Rightarrow a = 2 * (10 - 30 * 2) / t * t$ ; Here SOUARE(t) is replaced by macro to t\*t.

 $\Rightarrow a = 2 * (10 - 30 * 2) / 2 * 2;$ 

 $\Rightarrow a = 2 * (10 - 60) / 2 * 2$ ;

 $\Rightarrow a = 2 * (-50) / 2 * 2;$ 

=> a = 2 \* (-25) \* 2;

 $\Rightarrow a = (-50) * 2$ :

=> a = -100:

Step 3: printf("Result=%f", a); It prints the value of variable 'a'.

Hence the output of the program is -100

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- 10. Preprocessor directive #undef can be used only on a macro that has been #define earlier
  - ✓ A. True
    ✓
  - B. False 💥

Your Answer: Option A

Correct Answer: Option A

Explanation:

True, #undef can be used only on a macro that has been #define earlier

Example: #define PI 3.14

We can undefine PI macro by #undef PI

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11. Which statement will you add to the following program to ensure that the program outputs "IndiaBIX" on execution?

```
#include<stdio.h>
int main()
    char s[] = "IndiaBIX";
    char t[25];
    char *ps, *pt;
   ps = s;
   pt = t;
   while(*ps)
       *pt++ = *ps++;
    /* Add a statement here */
    printf("%s\n", t);
   return 0;
}
■ A.*pt="; **
■ B.pt='\0'; **
✓ D.*pt='\0';
```

Your Answer: Option D

Correct Answer: Option D

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```
#include<stdio.h>
#include<string.h>
int main()
{
    char str1[20] = "Hello", str2[20] = " World";
    printf("%s\n", strcpy(str2, strcat(str1, str2)));
    return 0;
}
    A.Hello 
B. World 
C.Hello World 
C.Hello World
```

```
■ D. WorldHello ¥
```

Your Answer: Option C

Correct Answer: Option C

Explanation:

**Step 1**: *char str1[20] = "Hello"*, *str2[20] = " World"*; The variable *str1* and *str2* is declared as an array of characters and initialized with value "Hello" and " World" respectively.

**Step 2**: printf("%s\n", strcpy(str2, strcat(str1, str2)));

=> *strcat(str1, str2))* it append the string *str2* to *str1*. The result will be stored in *str1*. Therefore *str1* contains "Hello World".

=> strcpy(str2, "Hello World") it copies the "Hello World" to the variable str2.

Hence it prints "Hello World".

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13. What will be the output of the program?

```
#include<stdio.h>
int main()
{
    char p[] = "%d\n";
    p[1] = 'c';
    printf(p, 65);
    return 0;
}

A.A.
B.a.
C.c.
D.65.*
```

Your Answer: Option A

Correct Answer: Option A

Explanation:

**Step 1**: char  $p[] = "\%d \mid n"$ ; The variable p is declared as an array of characters and initialized with string "%d".

**Step 2**: p/1/1 = c'; Here, we overwrite the second element of array p by 'c'. So array p becomes "%c".

**Step 3**: *printf(p, 65)*; becomes *printf("%c", 65)*;

Therefore it prints the ASCII value of 65. The output is 'A'.

Learn more problems on : Strings

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```
#include<stdio.h>
void swap(char *, char *);
int main()
    char *pstr[2] = {"Hello", "IndiaBIX"};
    swap(pstr[0], pstr[1]);
    printf("%s\n%s", pstr[0], pstr[1]);
    return 0;
void swap(char *t1, char *t2)
    char *t;
    t=t1;
    t1=t2;
    t2=t;
■ A. IndiaBIX × Hello
■ B. Address of "Hello" and "IndiaBIX" ¥
✓ C. Hello
     IndiaBIX
□ D. Iello
HndiaBIX
```

Your Answer: Option C

Correct Answer: Option C

Explanation:

**Step 1**: *void swap(char\*, char\*);* This prototype tells the compiler that the function swap accept two strings as arguments and it does not return anything.

**Step 2**:  $char *pstr[2] = {"Hello", "IndiaBIX"};$  The variable pstr is declared as an pointer to the array of strings. It is initialized to

```
pstr[0] = "Hello", pstr[1] = "IndiaBIX"
```

**Step 3**: swap(pstr[0], pstr[1]); The swap function is called by "call by value". Hence it does not affect the output of the program.

If the *swap* function is "called by reference" it will affect the variable *pstr*.

**Step 4**: printf("%s\n%s", pstr[0], pstr[1]); It prints the value of pstr[0] and pstr[1].

Hence the output of the program is

Hello IndiaBIX

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```
#include<stdio.h>
int main()
{
```

7/3/2018

```
Test Result
          union var
              int a, b;
          };
          union var v;
          v.a=10;
          v.b=20;
          printf("%d\n", v.a);
          return 0;
      ■ A.10 ×

✓ B. 20

✓
      □ C.30 ×
      □ D.0 ※
      Your Answer: Option B
      Correct Answer: Option B
      Learn more problems on : <u>Structures, Unions, Enums</u>
      Discuss about this problem: Discuss in Forum
      Nested unions are allowed
      A.True
      ■ B. False 💥
      Your Answer: Option A
      Correct Answer: Option A
      Learn more problems on : <u>Structures, Unions, Enums</u>
      Discuss about this problem: Discuss in Forum
      Can we have an array of bit fields?
      A. Yes 🗱

✓ B. No
✓
      Your Answer: Option B
      Correct Answer: Option B
      Learn more problems on : <u>Structures, Unions, Enums</u>
      Discuss about this problem: Discuss in Forum
18. To scan a and b given below, which of the following scanf() statement will you use?
    #include<stdio.h>
    float a;
    double b;
    ■ A.scanf("%f %f", &a, &b); **
    ■ B. scanf("%Lf %Lf", &a, &b); **
```

✓ C. scanf("%f %Lf", &a, &b); □ D.scanf("%f %lf", &a, &b);

16.

17.

Your Answer: Option C

Correct Answer: Option D

Explanation:

To scan a float value, %f is used as format specifier.

To scan a double value, %lf is used as format specifier.

Therefore, the answer is *scanf("%f %lf", &a, &b)*;

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19. What will be the output of the program?

Your Answer: Option B

Correct Answer: Option B

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20. What will be the output of the program?

```
#include<stdio.h>
int main()
{
    unsigned int res;
    res = (64 >> (2+1-2)) & (~(1<<2));
    printf("%d\n", res);
    return 0;
}

Ø A.32②
    B.64 **
    C.0 **
    D.128 **</pre>
```

Your Answer: Option A

Correct Answer: Option A

Learn more problems on : <u>Bitwise Operators</u>

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(i) X

**(i)** 

## \*\*\* END OF THE TEST \*\*\*

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