



Winner Academy of Excellence

Day-1 Practice Questions (5th August 2020)

1. Regarding real values in C, which of the following is TRUE?

1. A float occupies less memory than a double.
 2. The range of real numbers that can be represented by a double is less than those represented by a float.
- (a) Only Option 1
(b) Only Option 2
(c) Both Options 1 and 2
(d) Neither Option 1 nor 2

Correct Answer:

2. What is the maximum value of a signed data type that is 8 bits in size?

- (a) 2 to the power of 7
(b) 2 to the power of 8
(c) (2 to the power of 7) minus 1
(d) (2 to the power of 8) minus 1

Correct Answer:

3. Which of the following statements is/are TRUE?

1. A char data type variable always occupies one byte independent of the system architecture.
2. The sizeof operator is used to determine the amount of memory occupied by a variable.

- (a) Both 1 and 2
(b) 1 only
(c) 2 only
(d) Neither 1 nor 2

Correct Answer:



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4. What value will be stored in z if the following code is executed?

```
main()
{
    int x=5,y=-10,z;
    int a=4,b=2;
    z=x++ + ++y *b/a;
}
```

- (a) -2
- (b) 0
- (c) 1
- (d) Error

Correct Answer:

5. What is the function of the modulus operator in most languages?

- (a) Sets a system environmental value to either base 10, base 8, or base 16.
- (b) Returns the first argument raised to the second argument power.
- (c) Prints out the actual code written to standard output rather than executing the code.
- (d) Returns the remainder after dividing one number by another.

6. For the following statements find the values generated for p and q?

```
int p=0,q=1;
```

```
p=q++;
```

```
p=++q;
```

```
p=q--;
```

```
p=--q;
```

The value of p and q are

- (a) 1 , 1
- (b) 0 , 0
- (c) 3 , 2
- (d) 1 , 2

Correct Answer:



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7. Which of the following is a better approach to do the operation $i=i*16$;

- (a) Multiply i by 16 and keep it
- (b) Shift left by 4 bits
- (c) Add i 16 times
- (d) None of the above

Correct Answer:

8. What is the value of the following expression?

$i=1$;

$i=(i <= 1 \% 2)$;

- (a) 2
- (b) 1
- (c) 0
- (d) Syntax Error

Correct Answer:

9. Which of the following expression will correctly swap two integers without using a temporary variable?

- (a) $(x^{\wedge}=y), (y^{\wedge}=x)$
- (b) $(x=y), (y=x)$
- (c) $(x^{\wedge}=y), (y^{\wedge}=x), (x^{\wedge}=y)$
- (d) $x^{\wedge}=(y^{\wedge}=x)$

Correct Answer:

10. What will be result of executing the following statement?

`int i=10;`

`printf(“%d %d %d”, i, ++i, i++);`

- (a) 10 11 12
- (b) 10 11 11



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- (c) Result is operating system dependent
- (d) Result is compiler dependent

Correct Answer:

Programming Questions

1. WAP to input any two numbers and swap the variable's value without using temp variable.
2. WAP to input any three numbers and swap the variable's value without using temp variable.
3. WAP to input any five-digit number and find the sum of first and last digit.
4. WAP to input any temperature and convert it into Fahrenheit and vice versa also.
5. WAP to input any five subject marks and find the total and percentage
6. WAP to input any principle, rate and time. Find the simple interest and compound interest
7. WAP to print the following series:

1	-2	3	-4	5	-6	7	-8	9	-10
-1	2	-3	4	-5	6	-7	8	-9	10
1	4	9	16	25	36	49	64	81	100