

# Q1.

```
1.      #include <stdio.h>
2.      int main()
3.      {
4.          int i = -3;
5.          int k = i % 2;
6.          printf("%d\n", k);
7.      }
```

# Q1.

```
1.    #include <stdio.h>
2.    int main()
3.    {
4.        int i = -3;
5.        int k = i % 2;
6.        printf("%d\n", k);
7.    }
```

Ans: -1

## Q2

```
1.    #include <stdio.h>
2.    int main()
3.    {
4.        int i = 3;
5.        int l = i / -2;
6.        int k = i % -2;
7.        printf("%d %d\n", l, k);
8.        return 0;
9.    }
```

# Q2

```
1.    #include <stdio.h>
2.    int main()
3.    {
4.        int i = 3;
5.        int l = i / -2;
6.        int k = i % -2;
7.        printf("%d %d\n", l, k);
8.        return 0;
9.    }
```

Ans: -1, 1

# Q3

```
1.    #include <stdio.h>
2.    void main()
3.    {
4.        int x = 5 * 9 / 3 + 9;
5.    }
```

# Q3

```
1.    #include <stdio.h>
2.    void main()
3.    {
4.        int x = 5 * 9 / 3 + 9;
5.    }
```

Ans: 24

# Q4

```
1.    #include <stdio.h>
2.    void main()
3.    {
4.        int x = 5.3 % 2;
5.        printf("Value of x is %d", x);
6.    }
```

# Q4

```
1.    #include <stdio.h>
2.    void main()
3.    {
4.        int x = 5.3 % 2;
5.        printf("Value of x is %d", x);
6.    }
```

Ans: Compile time error



# Q5

```
1.    #include <stdio.h>
2.    void main()
3.    {
4.        int y = 3;
5.        int x = 5 % 2 * 3 / 2;
6.        printf("Value of x is %d", x);
7.    }
```

# Q5

```
1.    #include <stdio.h>
2.    void main()
3.    {
4.        int y = 3;
5.        int x = 5 % 2 * 3 / 2;
6.        printf("Value of x is %d", x);
7.    }
```

Ans 1

## Q6

```
1.      #include <stdio.h>
2.      void main()
3.      {
4.          int x = 1, y = 0, z = 5;
5.          int a = x && y || z++;
6.          printf("%d", z);
7.      }
```

# Q6

```
1.    #include <stdio.h>
2.    void main()
3.    {
4.        int x = 1, y = 0, z = 5;
5.        int a = x && y || z++;
6.        printf("%d", z);
7.    }
```

Ans 6

# Q7

```
1.    #include <stdio.h>
2.    int main()
3.    {
4.        int x = 1, y = 0, z = 3;
5.        x > y ? printf("%d", z) : return z;
6.    }
```

## Q7 (what will be the value of j)

```
1.    #include <stdio.h>
2.    int main()
3.    {
4.        int i = 0, j = 0;
5.        if (i && (j = i + 10))
6.            //do something
7.            ;
8.    }
```

# Q7 (what will be the value of j)

```
1.    #include <stdio.h>
2.    int main()
3.    {
4.        int i = 0, j = 0;
5.        if (i && (j = i + 10))
6.            //do something
7.            ;
8.    }
```

Ans : j = 0

Q8What will be the final value of j in the following C code?

```
1.    #include <stdio.h>
2.    int main()
3.    {
4.        int i = 10, j = 0;
5.        if (i || (j = i + 10))
6.            //do something
7.            ;
8.    }
```



Q8What will be the final value of j in the following C code?

```
1.    #include <stdio.h>
2.    int main()
3.    {
4.        int i = 10, j = 0;
5.        if (i || (j = i + 10))
6.            //do something
7.            ;
8.    }
```

## Q8 What will be the final value of j in the following C code?

```
1.    #include <stdio.h>
2.    int main()
3.    {
4.        int i = 10, j = 0;
5.        if (i || (j = i + 10))
6.            //do something
7.            ;
8.    }
```

Ans: j = 0

# Q9.

```
1.    #include <stdio.h>
2.    int main()
3.    {
4.        int a = 10, b = 5, c = 5;
5.        int d;
6.        d = b + c == a;
7.        printf("%d", d);
8.    }
```

# Q9.

```
1.    #include <stdio.h>
2.    int main()
3.    {
4.        int a = 10, b = 5, c = 5;
5.        int d;
6.        d = b + c == a;
7.        printf("%d", d);
8.    }
```

Ans : 1

# Q10

```
1.    #include <stdio.h>
2.    int main()
3.    {
4.        int a = 10, b = 5, c = 3;
5.        b != !a;
6.        c = !!a;
7.        printf("%d\t%d", b, c);
8.    }
```

# Q10

```
1.    #include <stdio.h>
2.    int main()
3.    {
4.        int a = 10, b = 5, c = 3;
5.        b != !a;
6.        c = !!a;
7.        printf("%d\t%d", b, c);
8.    }
```

Ans: 5 1

Q11. Which among the following is NOT a logical or relational operator?

a) !=

b) ==

c) ||

d) =

Q11. Which among the following is NOT a logical or relational operator?

a) !=

b) ==

c) ||

d) =

Ans =



## Q12.

1. **C programs are converted into machine language with the help of**

- A. ☐ An Editor
- B. ☐ A compiler
- C. ☐ An operating system
- D. ☐ None of these.

# Q12.

1. **C programs are converted into machine language with the help of**

- A. ☐ An Editor
- B. ☐ A compiler
- C. ☐ An operating system
- D. ☐ None of these.

Ans: Compiler

## Q13.

```
void main()  
{  
    int i=10;  
    i = !i>14;  
    printf("i=%d", i) ;  
}
```

# Q13.

```
void main()
{
    int i=10;
    i = !i>14;
    printf("i=%d", i);
}
```

Ans i =0

# Q14

```
void main()  
{  
    int a, b, c, d;  
    a = 3;  
    b = 5;  
    c = a, b;  
    d = (a, b);  
    printf("c=%d d=%d", c, d);  
}
```

# Q14

```
void main()  
{  
    int a, b, c, d;  
    a = 3;  
    b = 5;  
    c = a, b;  
    d = (a, b);  
    printf("c=%d d=%d", c, d);  
}
```

# Q14

```
void main()
{
    int a, b, c, d;
    a = 3;
    b = 5;
    c = a, b;
    d = (a, b);
    printf("c=%d d=%d", c, d);
}
```

Ans: c=3, d=5

Q15 Which operator has the lowest priority

A. ☐ ++

B. ☐ %

C. ☐ +

D. ☐ ||

E. ☐ &&



# Q15 Which operator has the lowest priority

A. ☐ ++

B. ☐ %

C. ☐ +

D. ☐ ||

E. ☐ &&

# Q15 Which operator has the lowest priority

A. ☐ ++

B. ☐ %

C. ☐ +

D. ☐ ||

E. ☐ &&

Ans: ||

# Q16

```
int i = 0;  
printf("%d %d", i, i++);
```

# Q16

```
int i = 0;  
printf("%d %d", i, i++);
```

Ans: **Option B**

**Solution:**

Since the evaluation is from **right to left**.

So when the print statement execute value of  $i = 0$

Since its execute from right to left when  $i++$  will be execute first and print value 0 (**since its post increment**) and after printing 0 value of  $i$  become 1.

**So it its prints for 1 for next  $i$ .**

# Q17

```
int b=15, c=5, d=8, e=8, a;  
a = b>c ? c>d ? 12 : d>e ? 13 : 14 : 15;  
printf("%d", a);
```

# Q17

Ans: 14

```
int b=15, c=5, d=8, e=8, a;  
a = b>c ? c>d ? 12 : d>e ? 13 : 14 : 15;  
printf("%d", a);
```

```
if(b>c)  
{  
    if(c>d)  
        a = 12;  
    else  
    {  
        if(d>e)  
            a = 13;  
        else  
            a = 14;  
    }  
}  
else  
{  
    a = 15;  
}
```

# Q18

```
1.    #include <stdio.h>
2.    int main()
3.    {
4.        int x = 1, y = 2;
5.        if (x && y == 1)
6.            printf("true\n");
7.        else
8.            printf("false\n");
9.    }
```

# Q18

```
1.    #include <stdio.h>
2.    int main()
3.    {
4.        int x = 1, y = 2;
5.        if (x && y == 1)
6.            printf("true\n");
7.        else
8.            printf("false\n");
9.    }
```

Ans: false



# Q19

```
1.      #include <stdio.h>
2.      int main()
3.      {
4.          int a = 0, i = 0, b;
5.          for (i = 0; i < 5; i++)
6.          {
7.              a++;
8.              continue;
9.          }
10.     }
```

# Q19

```
1.      #include <stdio.h>
2.      int main()
3.      {
4.          int a = 0, i = 0, b;
5.          for (i = 0; i < 5; i++)
6.          {
7.              a++;
8.              if (i == 3)
9.                  break;
10.         }
11.     }
```

# Q19

```
1.    #include <stdio.h>
2.    void main()
3.    {
4.        int i = 0;
5.        for (i = 0; i < 5; i++)
6.            if (i < 4)
7.            {
8.                printf("Hello");
9.                break;
10.           }
11.    }
```

# Q19

```
1.  #include <stdio.h>
2.  void main()
3.  {
4.      int i = 0;
5.      for (i = 0; i < 5; i++)
6.          if (i < 4)
7.          {
8.              printf("Hello");
9.              break;
10.         }
11. }
```

- a) Hello is printed 5 times
- b) Hello is printed 4 times
- c) Hello
- d) Hello is printed 3 time

# Q19

```
1.  #include <stdio.h>
2.  void main()
3.  {
4.      int i = 0;
5.      for (i = 0; i < 5; i++)
6.          if (i < 4)
7.          {
8.              printf("Hello");
9.              break;
10.         }
11. }
```

- a) Hello is printed 5 times
- b) Hello is printed 4 times
- c) Hello
- d) Hello is printed 3 time

Ans c) Hello

## Q20

```
int main()
{
    int a=10, b, c;
    b=a++;
    c=++a;
    printf("%d %d %d", a, b, c);

    return 0;
}
```

- A) 10 11 12
- B) 12 10 12
- C) 12 11 12
- D) 12 12 12

# Q20

```
int main()
{
    int a=10, b, c;
    b=a++;
    c=++a;
    printf("%d %d %d", a, b, c);

    return 0;
}
```

A) 10 11 12

B) 12 10 12

C) 12 11 12

D) 12 12 12

**Ans: 12 10 12**

```
int main()
{
    int a=0, b=0;
    while(++a < 4)
        printf("%d ", a);

    while(b++ < 4)
        printf("%d ", b);

    return 0;
}
```

- A) 0 1 2 3 1 2 3 4
- B) 1 2 3 1 2 3 4
- C) 1 2 3 4 1 2 3 4
- D) 1 2 3 4 0 1 2 3



# Q21

```
int main()
{
    int a=0, b=0;
    while(++a < 4)
        printf("%d ", a);

    while(b++ < 4)
        printf("%d ", b);

    return 0;
}
```

- A) 0 1 2 3 1 2 3 4
- B) 1 2 3 1 2 3 4
- C) 1 2 3 4 1 2 3 4
- D) 1 2 3 4 0 1 2 3

```
int main()
{
    int a=10,b=20;

    if(a==9 AND b==20)
    {
        printf("Hurray..");
    }

    if(a==10 OR b==21)
    {
        printf("Theatre");
    }

    return 0;
}
```

# Q22

```
int main()
{
    int a=10,b=20;

    if(a==9 AND b==20)
    {
        printf("Hurray..");
    }

    if(a==10 OR b==21)
    {
        printf("Theatre");
    }

    return 0;
}
```

Compiler Error

# Q23

```
1.      #include <stdio.h>
2.      int x;
3.      void main()
4.      {
5.          if (x)
6.              printf("hi");
7.          else
8.              printf("how are u");
9.      }
```

# Q23

```
1.    #include <stdio.h>
2.    int x;
3.    void main()
4.    {
5.        if (x)
6.            printf("hi");
7.        else
8.            printf("how are u");
9.    }
```

Ans: how are u

# Q24

```
1.    #include <stdio.h>
2.    void main()
3.    {
4.        int x = 5;
5.        if (true);
6.            printf("hello");
7.    }
```

# Q24

```
1.    #include <stdio.h>
2.    void main()
3.    {
4.        int x = 5;
5.        if (true);
6.            printf("hello");
7.    }
```

Ans: It will throw an Error

# Q25

```
1.    #include <stdio.h>
2.    void main()
3.    {
4.        int x = 0;
5.        if (x == 0)
6.            printf("hi");
7.        else
8.            printf("how are u");
9.            printf("hello");
10.   }
```



# Q25

```
1.    #include <stdio.h>
2.    void main()
3.    {
4.        int x = 0;
5.        if (x == 0)
6.            printf("hi");
7.        else
8.            printf("how are u");
9.            printf("hello");
10.   }
```

Ans: hi hello

# Q26

```
int main()
{
    int a = 1;
    if(a--)
        printf("True");
    if(a++)
        printf("False");
}
```

# Q26

```
int main()
{
    int a = 1;
    if(a--)
        printf("True");
    if(a++)
        printf("False");
}
```

Ans: True

# Q27

```
int main()
{
    int a = 1;
    if(a)
        printf("All is Well ");
        printf("I am Well\n");
    else
        printf("I am not a River\n");
}
```

# Q27

```
int main()
{
    int a = 1;
    if(a)
        printf("All is Well ");
        printf("I am Well\n");
    else
        printf("I am not a River\n");
}
```

Ans: Compile time errors during compilation

# Q28

```
#include<stdio.h>
int main()
{
    int x=10;
    printf("%d, %d, %d\n", x <= 10, x = 40, x >= 10);
    return 0;
}
```

# Q28

```
#include<stdio.h>
int main()
{
    int x=10;
    printf("%d, %d, %d\n", x <= 10, x = 40, x >= 10);
    return 0;
}
```

Ans: 0, 40, 1

# Q29

```
#include<stdio.h>
int main()
{
    int i = 10;
    printf("%d, %d\n", ++i, i++);
    return 0;
}
```



# Q29

```
#include<stdio.h>
int main()
{
    int i = 10;
    printf("%d, %d\n", ++i, i++);
    return 0;
}
```

Ans: 12 10