BOOT CAMP FOR CAMPUS RECRUITMENT PREPARATION Test-03

GANDHI INSTITUTE FOR TECHNOLOGY(GIFT)

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Question-01 *

```
1)
   #include <stdio.h>
   int main()
   {
       unsigned int a = 0xffff;
       unsigned int k = ~a;
       printf("%d %d\n", a, k);
       return 0;
   }
```

- ○ -1 -1
- ◉ 65535 -65535
- ○ 65535 65535
- ○ -65535 -65535

Question-02 *

```
2)
   #include <stdio.h>
   int main()
   {
       unsigned int a = -1;
       unsigned int b = 4;
       printf("%d\n", a << b);
       return 0;
   }
```

- ○ 1
- ◉ -16
- ○ 8
- ○ 16

Question-03 *

```
3)

#include <stdio.h>
int main()
{
    unsigned int m = 32;
    printf("%d %d", m >> 1, ~m);
    return 0;
}
```

○ 16 5

○ 64 -32

○ 16 33

◉ 16 -33

Question-04 *

```
4)

#include <stdio.h>
int main()
{
    unsigned int a = -1;
    unsigned int b = 15;
    printf("%d, ", a << 1);
    printf("%d\n", b >> 1);
    return 0;
}
```

◉ -2, 7

○ 2, 8

○ -1, 15

○ -2, 15

Question-05 *

05)

```c
#include <stdio.h>
int main()
{
    int x = 3, k;
    while (x-- >= 0)
    {
        printf("%d  ", x);
    }
    return 0;
}
```

○ 3 2 1 0

◉ 2 1 0 -1

○ infinite loop

○ -65535

Question-06 *

06)

```c
#include <stdio.h>
int main()
{
    int x = 0, k;
    while (+(+x--) != 0)
    {
        x++;
    }
    printf("%d  ", x);
    return 0;
}
```

○ 1

○ 0

○ -1

◉ infinite

Question-07 *

07)

```c
#include <stdio.h>
int main()
{
    int x = -10;
    while (x++ != 0)
        ;
    printf("%d  ", x);
    return 0;
}
```

○ 0

◉ 1

○ -1

○ infiniite

Question-08 *

08)

```c
#include <stdio.h>
int main()
{
        while (1)
        {
            if (printf("%d",
                        printf("%d")))
                break;
            else
                continue;
        }
        return 0;
}
```

- ◉ Garbage value
- ○ 1
- ○ 0
- ○ Error

Question-09 *

09)

```c
#include <stdio.h>
int main()
{
    for (5; 2; 2)
        printf("Hello\n");
    return 0;
}
```

- ● compilation error
- ○ Hello
- ○ infinite loop
- ○ none of the above

Question-10 *

10)

```c
#include <stdio.h>
int main()
{
    static int i;
    for (i++; ++i; i++)
    {
        printf("%d ", i);
        if (i == 6)
            break;
    }
    return 0;
}
```

- ● 2 4 6
- ○ compilation error
- ○ garbage value
- ○ no output

Question-01

Question-1

Consider the following series: 1,1,2,3,4,9,8,27,16,81,32,243,64,729,128,2187…
This series is a mixture of 2 series – all the odd terms in this series form
a geometric series and all the even terms form yet another geometric series.
Write a program to find the Nth term in the series.
The value N is a positive integer that should be read from STDIN. The Nth
term that is calculated by the program should be written to STDOUT. Other
than the value of the nth term, no other character/string or message should
be written to STDOUT. For example, if N=16, the 16th term in the series is
2187, so only value 2187 should be printed to STDOUT.
You can assume that N will not exceed 30.

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