

What will be the output?

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

- a) 10 9 8 7 6 5 4 3 2 1
- b) 1 2 3 4 5 6 7 8 9 10
- c) No output
- d) None of the above statements are correct

Answer: c

Which of the following is not an infinite loop?

- a) for(; ;)
- b) for(x=0; x<=10)
- c) while(1)
- d) while(0)

- Option (a)
- Option (b)
- Option (c)
- Option (d)

Answer: d

Consider the following and identify the false statement(s)?

- i) 'do-while' loop must be terminated by a semi colon.
- ii) 'do-while' loop is always an infinite loop.
- iii) Even if the condition is false, the 'do-while' loop executes once.
- iv) 'do-while' loop is an entry-controlled loop.

- a) (i) and (ii)
- b) (i), (ii), and (iv)
- c) (ii)
- d) (ii) and (iv)

Answer: d

Compute the printed value of 'm' and 'n' of the C program given below

```
#include <stdio.h>
int main()
{
    int m= 0, n = 0;
    while (m<5, n <7)
    {
        m++;
        n++;
    }
    printf("%d, %d\n", m, n);
    return 0;
}
```

- a) 5, 7
- b) 5, 5
- c) 7, 7
- d) 0, 0

Answer: c

What should be in the place of ***** so that except i=8, rest of the values of i (as defined in the 'for' loop: i=0 to i=19) will be printed?

```
#include <stdio.h>
int main()
{
    int i = 0;
    for (i = 0; i < 20; i++)
    {
        if(i==8)
        {
            *****;
        }
        printf("i=%d\n", i);
    }
    return 0;
}
```

- a) break
- b) continue
- c) switch
- d) exit

Answer: b

What will be the output?

```
#include <stdio.h>
int main()
{
    int x = 0;
    switch (x)
    {
        case 0: printf("NPTEL");
        case 1: printf("SWAWAM");
        default: printf("IIT/IISc");
    }
    return 0;
}
```

- a) NPTEL
- b) IIT/IISc
- c) NPTELSWAWAMIIT/IISc
- d) Compilation error

Answer: c

What will be the output?

```
#include <stdio.h>
int main()
{
    int k,j;
    for (k=1,j=3;k<=3,j>=1;k++,j--)
    {
        printf("%d,%d\n",k,j);
    }
    return 0;
}
```

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

Answer: c

What will be the output of the program?

```
#include <stdio.h>
int main()
{
    int p;
    for (p=0; p<3; p++)
    {
        int p=4;
        printf ("%d,", p);
    }
    return 0;
}
```

- a) 4 will print 1 time
- b) 4 will print 3 times
- c) 4 will print 4 times
- d) No output

Answer: b

For the C program given below, if the input given by the user is 7. What will be shown on the output window?

```
#include <stdio.h>
int main()
{
    int n,i=2;
    scanf("%d",&n);
    do
    {
        if(n%i==0)
        {
            printf("The number is odd");
        }
        i++;
    }
    while(i<n);
    printf("The number is prime");
    return 0;
}
```

- a) The number is odd
- b) The number is prime
- c) The number is odd The number is prime
- d) Syntax Error

Answer: b

What will be the output?

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

- a) 0 1 2 3 4 5 6 7 8 9 11 12.....infinite times
- b) 1 2 3 4 5 6 7 8 9 11 12....infinite times
- c) Won't print anything
- d) Error

Answer: b