Q&A-Tutorial: Operators and Operator Precedence

1) What will be the output of following program ?

```c
#include <stdio.h>
void main()
{
   printf("value is = %d",(10++));
}
```

2) What will be the output of following program ?

```c
#include <stdio.h>
void main()
{
        const char var='A';
        ++var;
        printf("%c",var);
}
```

3) What will be the output of following program ?

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

4) What will be the output of following program ?

```c
#include <stdio.h>
void main()
{
        int a=10,b=2,x=0;
        x=a+b*a+10/2*a;
        printf("value is =%d",x);
}
```

5) What will be the output of following program ?

```c
#include <stdio.h>
void main()
{
        unsigned short var='B';
        var+=2;
        var++;
        printf("var : %c , %d ", var,var);
}
```

6) What will be the output of following program ?

```c
#include <stdio.h>
void main()
```

```c
{
    char var=10;
    printf("var is = %d",++var++);
}
```

7) What will be the output of following program ?

```c
#include <stdio.h>
void main()
{
    int x=(20 || 40 ) && (10);
    printf("x= %d",x);
}
```

8) What will be the output of following program ?

```c
#include <stdio.h>
void main()
{
    int x;
    x= (printf("AA")||printf("BB"));
    printf("%d",x);
    printf("\n");

    x= (printf("AA")&&printf("BB"));
    printf("%d",x);
}
```

9) What will be the output of following program ?

```c
#include <stdio.h>
void main()
{
  int a=3,b=2;
  a=a==b==0;
  printf("%d,%d",a,b);
}
```

10) What will be the output of following program ?

```c
#include <stdio.h>
void main(){
  int intVar=20,x;
  x= ++intVar,intVar++,++intVar;
  printf("Value of intVar=%d, x=%d",intVar,x);
}
```

11) What will be the output of following program ?

```c
#include <stdio.h>
int main(){
    char val=250;
    int    ans;
    ans= val+ !val + ~val + ++val;
    printf("%d",ans);
    return 0;
```

}
12) What will be the output of following program ?

```c
#include <stdio.h>
int main(){
  float a;
  (int)a= 10;
  printf("value of a=%d",a);
  return 0;
}
```

13) What will be the output of following program ?

```c
#include <stdio.h>
int main(){
        int x;
        x=100,30,50;
        printf("x=%d\n",x);
        x=(100,30,50);
        printf("x=%d\n",x);
        return 0;
}
```

14) What will be the output of following program ?

```c
#include <stdio.h>
int main()
{
        int i=-1,j=-1,k=0,l=2,m;
        m=i++&&j++&&k++||l++;
        printf("%d %d %d %d %d",i,j,k,l,m);
        return 0;
}
```

15) What will be the output of following program ?

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

16) What will be the value of **x** and **y** ?

```c
#include <stdio.h>
int main()
{
   int x,y;

   x=(100,200);
```

```c
    y=100,200;

    printf("x=%d,y=%d",x,y);

    return 0;
}
```
17) Arrange the operators according to their precedence: **+, %, ->, =**