```c
1. int main(void)
   {
        int a=-3;
        a = -a-a+!a;
        printf("%d\n",a);
        return 0;
   }
```

```c
2. int main(void)
   {
        int a=2,b=1,c,d;
        c = a<b;
        d = (a>b) && (c<b);
        printf("c=%d,  d=%d\n",c,d);
        return 0;
   }
```

```c
3. int main(void)
   {
        int a=9,b=15,c=16,d=12,e,f;
        e = !(a<b || b<c);
        f = (a>b) ?  a-b: b-a;
        printf("e=%d,  f=%d\n",e,f);
        return 0;
   }
```

```c
4. int main(void)
   {
        int a=5;
        a=6;
        a=a+5*a;
        printf("a=%d\n",a);
        return 0;
   }
```

```c
5. int main(void)
   {
        int a=5, b=5;
        printf("%d,%d\t",++a,b--);
        printf("%d,%d\t",a,b);
        printf("%d,%d\t",++a,b++);
        printf("%d,%d\n",a,b);
        return 0;
   }
```

```c
6. int main(void)
   {
        int x,y,z;
        x = 8++;
        y = ++x++;
        z = (x+y)--;
        printf("x=%d,  y=%d,  z=%d\n",x,y);
```

```
        return 0;
    }

7.  int main(void)
    {
        int a=4, b=8, c=3, d=9, z;
        z = a++ + ++b * c-- - --d;
        printf("a=%d, b=%d, c=%d, d=%d, z=%d\n",a,b,c,d,z);
        return 0;
    }

8.  int main(void)
    {
        int a=14,b,c;
        a=a%5;
        b=a/3;
        c=a/5%3;
        printf("a=%d, b=%d, c=%d\n",a,b,c);
        return 0;
    }

9.  int main(void)
    {
        int a=15,b=13,c=16,x,y;
        x = a-3%2+c*2/4%2+b/4;
        y = a = b+5-b+9/3;
        printf("x=%d, y=%d\n",x,y);
        return 0;
    }

10. int main(void)
    {
        int x,y,z,k=10;
        k+=(x=5, y=x+2, z=x+y);
        printf("x=%d, y=%d, z=%d, k=%d\n",x,y,z,k);
        return 0;
    }

11. int main(void)
    {
        float b;
        b=15/2;
        printf("%f\t",b);
        b=(float)15/2 + (15/2);
        printf("%f\n",b);
        return 0;
    }

12. int main(void)
    {
        int a=9;
        char ch='A';
        a = a+ch+24;
        printf("%d,%c\t%d,%c\n",ch,ch,a,a);
        return 0;
    }

13. int main(void)
    {
        int a,b,c,d;
        a=b=c=d=4;
```

```c
        a*=b+1;
        c+=d*=3;
        printf("a=%d, c=%d\n",a,c);
        return 0;
}
```

14.
```c
int main(void)
{
        int a=5,b=10,temp;
        temp=a, a=b, b=temp;
        printf("a=%d, b=%d\n",a,b);
        return 0;
}
```

15.
```c
int main(void)
{
        int a=10, b=3, max;
        a>b ? max=a : max=b;
        printf("%d\n",max);
        return 0;
}
```

16.
```c
int main(void)
{
        int a=5, b=6;
        printf("%d\t",a=b);
        printf("%d\t",a==b);
        printf("%d %d\n",a,b);
        return 0;
}
```

17.
```c
int main(void)
{
        int a=3,b=4,c=3,d=4,x,y;
        x = (a=5) && (b=7);
        y = (c=5) || (d=8);
        printf("a=%d, b=%d, c=%d, d=%d, x=%d, y=%d\n",a,b,c,d,x,y);
        x = (a==6) && (b=9);
        y = (c==6) || (d=10);
        printf("a=%d, b=%d, c=%d, d=%d, x=%d, y=%d\n",a,b,c,d,x,y);
        return 0;
}
```

18.
```c
int main(void)
{
        int a=10;
        a=a++;
        a = a++ * a--;
        printf("%d\n",a);
        printf("%d\n",a++ * a++);
        return 0;
}
```

19.
```c
int main(void)
{
        int a=2, b=2, x, y ;
        x = 4*(++a * 2 + 3);
        y = 4*(b++ * 2 + 3 );
        printf("a=%d, b=%d, x=%d, y=%d\n",a,b,x,y);
        return 0;
}
```