

Winter Skill Development Program

A.

```
main(){  
    printf("%d %o %x",72,72,72);  
}
```

Output: 72, 110,48

B.

```
main()  
{  
    printf ("char occupies %d bytes\n", sizeof (char));  
    printf ("int occupies %d bytes\n", sizeof (int));  
    printf ("float occupies %d bytes\n", sizeof (float));  
}
```

Output: 1,4,4

C.

```
main()  
{  
    int a = 33000;  
    float b = 3.4e100;  
    printf("a = %db = %f\n",a,b);  
    printf ("%d %d", sizeof (a), sizeof (b));  
}
```

Output: 1. print a = 33000, but b = garbage value because it is a large number

2. size of a = 4 bytes, b= 4 bytes

E.

```
main()
```

```
{
```

```
    int i = 3, a = 4, n;  
    float t = 4.2.;  
    n = a*a/i + i/2*t + 2 + t;  
    printf ("n = %d", n);
```

```
}
```

Output: Error

Correct code is E.

```
main()
```

```
{
```

```
    int i = 3, a = 4, n;  
    float t = 4.2;  
    n = a*a/i + i/2*t + 2 + t;  
    printf ("n = %d", n);
```

```
}
```

Output: n=15

F.

```
main()
{
    printf ("%d %An", 4,4);
    printf ("%d%f\n", 4.0,4.0);
}
```

Output: 4, garbage value

Corrected code

```
main()
{
    printf ("%d %An", 4,4.0);
    printf ("%d%f\n", 4,4.0);
}
```

G

```
main()
{
    printf ("%d \nsizeof (4) / sizeof (2.0));
    printf ("%d", sizeof (2.0) / sizeof (4));
}
```

Output: Error, 2

Correct code

G.

```
main()
{
    printf ("%d", Vsizeof (4) / sizeof (2.0));
    printf ("%d", sizeof (2.0) / sizeof (4));
}
```

Output: 0,2

H.

```
main()
{
    int x = 10,y = 5, p,q;
    p=x>9;
    q = x>3 && y!=3;
    printf("p = %d q = %d", p, q);
}
```

Output: p = 1, q = 1

I.

```
main()
{
    int a = 100, b = 200, c;
    c = (a==100 || b>200);
    printf ("c = %d",c);
}
```

Output: c = 1

J. main()

```
{
    if (13.14)
        printf ("I have robbed and killed...");
    else
        printf ("Until my evil purse was filled");
}
```

Output: I have robbed and killed.....

K.

```
main()
{
    int x = 3, y = 4, z = 4;
    printf("ans = %d", z>=y && y >=x ? 1:0);
}
```

Output: ans= 1

L.

```
main()
{
    int x = 3, y = 4, z = 4;
    printf("ans = %d", (z>=y>=x ? 100:200));
}
```

Output: ans = 200

M.

```
main()
{
    if('Z'<'z')
        printf ("Pilots are on strike...");

    else
        printf ("for absolutely outlandish demands")

}
```

Output: Error

```
main()
{
    if('Z'<'z')
        printf ("Pilots are on strike...");

    else
        printf ("for absolutely outlandish demands");

}
```

Output: Pilots are on strike...

N.

```
main()
{
    int k = 12,n = 30;
    k = (k>5 && n = 4 ? 100:200);
    printf ("k = %d",k);
}
```

Output: Error

Correct code

```
main()
{
    int k = 12,n = 30;
    k = (k>5 && n == 4 ? 100:200);
    printf ("k = %d",k);
}
```

Output: k= 200

O.

main()

{

int j = 1 ;

while (j <= 255) ;

{

printf ("%c %d\n",j,j);

}

}

Output: Error

main()

{

int j = 1 ;

while (j <= 255)

{

printf ("%c %d\n",j,j);

j++;

}

}

Output: 1 1

2 2

3 3

...

A 65

B 66

C 67

...

ÿ 255

P.

main()

{

int j = 1 ;

while (j <= 255)

printf ("%d\n", ++j);

}

Output: 2 to 256

Q.

main()

{

int x = 3, y, z ;

z=y=x ;

z *= y = x * x;

```
    printf ("x = %'d y = %d z = %d", x, y, z )  
}
```

Output: Error

Correct code

```
main()
```

```
{
```

```
    int x = 3, y, z ;  
  
    z=y=x ;  
  
    z *= y = x * x;  
  
    printf ("x = %d y = %d z = %d", x, y, z );  
}
```

Output: x= 3, y= 9, z= 27

R.

```
main()
```

```
{
```

```
    int x = 3, z ;  
  
    z = x/++x ;  
  
    printf ("x = %d z = %d", x,z )  
}
```

Output: error

Correct code

```
main()
{
    int x = 3, z ;
    ++x;
    z = x/x ;
    printf ("x = %d z = %d", x,z );
}
```

Output: X= 3, z= 1

S.

```
main()
{
    int x,y,z ;
    x=y=z=1 ;
    i = ++x || ++y && ++z ;
    printf ("x = %dy = %dz = %d\n",x, y,z) ;
}
```

Output: Error

Correct code

```
main()
{
    int x,y,z ;
    x=y=z=1 ;
    int i = ++x || ++y && ++z ;
    printf ("x = %d y = %d z = %d\n",x, y,z) ;
}
```

Output: x= 2, y=1,z=1

T.

```
main()
{
    int x,y,z ;
    x = y = z = 1 ;
    z = ++x && ++y j) ++z ;
    printf ("x^%d y = %d z = %d\n") x,y,z);
}
```

Output: Error

Correct code

```
main()
{
    int x,y,z ;
    x = y = z = 1 ;
    z = ++x && ++y || ++z ;
    printf ("x^%d y = %d z = %d\n") x,y,z);
}
```

Output: x^2, y=2, z=1

U.

```
main()
{
    int i ;
    for (i = -1 ; i <= 10; i++)
    {
        if(i<5 )
            continue;
        else
            break;
        printf ("Gets printed only once!!");
    }
}
```

}

Output: run

